

Electronic Components

EST. 1989



**TRANSFER
MULTISORT
ELEKTRONIK**

TME4FACTORY

**PRODUCT CATALOGUE
FOR MAINTENANCE, DESIGN,
AUTOMATION, AND SERVICE DEPARTMENTS**



**MORE THAN AN ELECTRONIC
COMPONENT DISTRIBUTOR**

tme.eu

TME'S FULL OFFER

SEMICONDUCTORS

EMBEDDED AND IOT SYSTEMS

OPTOELECTRONICS

LIGHT SOURCES

PASSIVES

CONNECTORS

FUSES AND CIRCUIT BREAKERS

SWITCHES AND INDICATORS

SOUND SOURCES

RELAYS AND CONTACTORS

TRANSFORMERS AND FERRITE CORES

FANS, COOLING
AND HEATING SYSTEMS

POWER SOURCES

WIRES AND CABLES

MECHANICAL COMPONENTS

ENCLOSURES

AUTOMATION

PNEUMATICS AND HYDRAULICS

WORKPLACE EQUIPMENT

CAR AUDIO

ROBOTICS AND PROTOTYPING



OFFICE EQUIPMENT
COMPUTER ACCESSORIES

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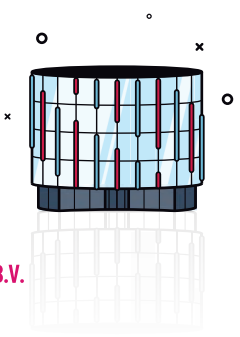
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CATALOGUE

TME4FACTORY

If you are involved in...

- maintenance
- material supply
- development and maintenance of production lines
- automation projects
- servicing of building technical installations

...take a look at this catalogue and see what we can offer you.



We present to you a catalogue dedicated to products designed to ensure the continuity and efficiency of production lines.



In this catalogue you will find:



AUTOMATION



MECHANICAL ELEMENTS



WORKPLACE EQUIPMENT



CABLES AND ACCESSORIES



POWER SOURCES



ELECTRICAL ENGINEERING



ENCLOSURES



CONNECTORS

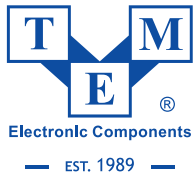


PASSIVE COMPONENTS



EMBEDDED SYSTEMS

+ MANY MORE...



WHO ARE WE?

Transfer Multisort Elektronik is a leading distributor in the electronics industry, offering a wide range of electronic and industrial automation components, measuring instruments, tools, chemical products, health and safety equipment and many more.







TME ONLINE CATALOGUE

– full offer

Full offer of the TME online catalogue includes more than **1,000,000 products** from **1,300 manufacturers** from all over the world.



FLEXIBILITY THROUGHOUT THE ORDERING PROCESS

-  Delivery within just one working day
-  Convenient methods of payment
-  Customer service in more than 20 languages
-  Orders via the website, e-mail, phone

**ACCESS ALL COMPONENTS,
SUBASSEMBLIES
AND DEVICES YOU NEED.**







IN ONE PLACE.

EXPERIENCE IN THE INDUSTRY AND IN LOCAL MARKETS

-  We have more than 35 years of experience in the industry
-  We are present on local markets of more than 150 countries
-  Our subsidiaries are located in 12 countries on 3 continents

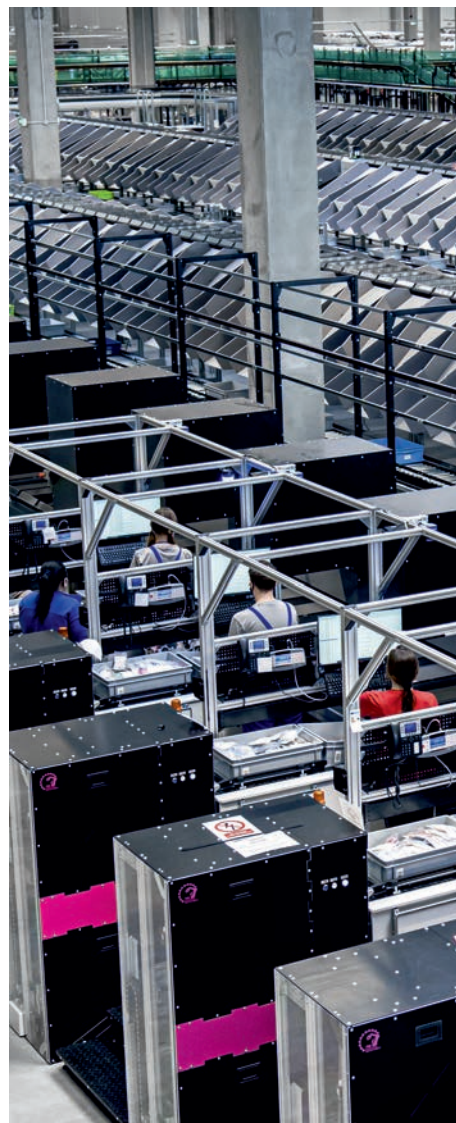


ONLINE ORDERS




-  Stock levels are updated in real time
-  Thanks to our parameter-based comparison tool, you can compare different products easily
-  Catalogue cards contain product specifications, technical documentation, 360° photos and 3D models
-  With our notifications about product availability, you can buy what you need at the earliest possible time
-  In the case of larger quantities, requests for quote give you an opportunity to receive discounts for large and frequent orders
-  Automation tools make purchasing processes faster and keeping records easier

TWO LOGISTIC CENTRES

Our warehouses are located in Łódź and in Rzgów. Every day, we dispatch over 5,200 packages from these centres to our customers.



For you, that means:

-  A wide choice of products which are available immediately
-  Quick shipment
-  High quality of service and guarantee of quality



TRANSPORT COSTS



Transport costs are covered by the customer.
Fixed costs for packages up to 20 kg start from EUR 5.40 net*.
Transport costs are added to the first package containing goods from the order.

The costs of sending products in next packages are covered by TME (unless the package contains products from a new order).

If you want to choose a forwarder that is not included in the list offered by TME, contact our Sales Department.

* As of 01.09.2025

CURRENT
DELIVERY TERMS
AND TRANSPORT COSTS
ARE AVAILABLE ON THE WEBSITE



tme.eu

TOOLS FOR YOUR CONVENIENCE

Easy operation, safe use,
compatibility with your needs.



API – Application Programming Interface

Integration of your software with our purchasing platform.



What you get thanks to API:

- access to the technical data of products and to the catalogue in many language versions
- real-time information about stock levels
- current prices (including your discounts) in your selected currencies
- safe data transfer

Integration does not require external support, you can do it all by yourself based on documentation.

Go to:
developers.tme.eu



EDI – Electronic Data Interchange

With EDI, you can exchange documents related to your order in the most popular data formats.

For your business, this means a more efficient trade process, faster order completion, reduced amount of paper documents.

Are you interested in implementing electronic document exchange with TME?

Contact our specialists and write to the following address:

edi-integrations@tme.eu



Punchout

Punchout allows you to transfer the shopping cart directly to your purchasing system, and more efficient planning, budgeting and monitoring of procurement processes.

Contact us and check out the possibility of integrating Punchout:

export@tme.eu





WE SUPPORT YOUNGER GENERATIONS, WE CREATE FUTURE TOGETHER

TME Education



We care about supporting and educating young people all over the world, especially in regions where access to knowledge in the field of electronics and technology is limited.

The project assumes active participation of young people in the process of changes taking place in the reality around them, creating better perspectives not only for themselves but also for whole local communities.

In this respect, our activities include:

- equipping schools with electronic devices
- training and workshops for teachers
- developing original education kits for learning electronics on different levels of advancement
- sharing on-line courses and e-books

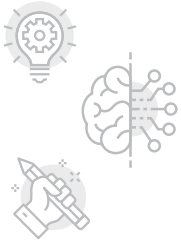


Do you want to join to our activities and help us change the world?

www.tmeeducation.com

contact@tmeeducation.com

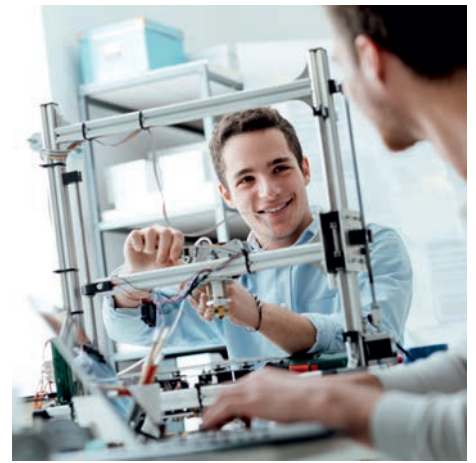




Tech Master Event

We have created a platform on which smart and creative electronics enthusiasts can share their ideas easily, meet new people, get valuable tips, learn and simply enjoy creative work. It is a space made by enthusiasts and for enthusiasts.

Join our programme and help us attain its goal - contact us.



TECHMASTEREVENT 2025

FAQ SEE ONGOING CONTESTS

- 1 OPEN
- 1 COMING SOON
- 30 FINISHED

32 TOTAL CONTESTS

584 SUBMITTED PROJECTS

100 450 USD SUM OF PRIZES

If you want to find out more about the Tech Master Event platform for Technical Creators, its activity and solutions, check out the Tech Master Event website and Tech Master Event profiles on social media.

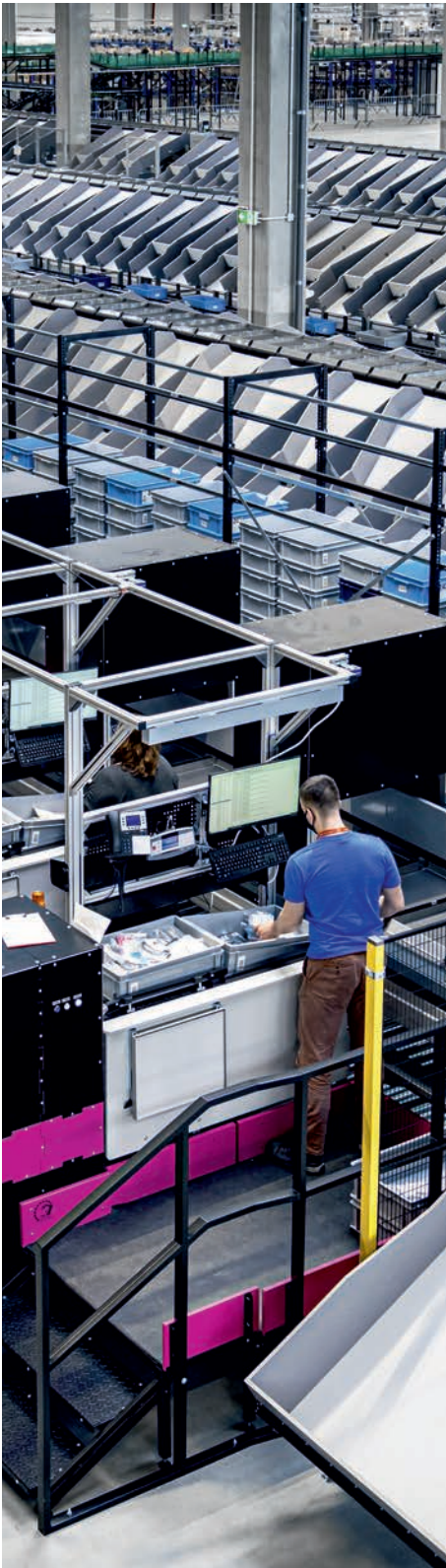


www.techmasterevent.com

/techmasterevent

@techmasterevent





QUALITY AND CERTIFICATES

We meet the product storage standards, so we have specialist warehouse sections:

- ESD
- cooling
- vacuum packing
- chemical warehouse

We offer compliance with the quality management system ISO 9001:2015-10 and environmental management system ISO 14001:2015-09.



Our order completion process has been mostly automated and is subject to monitoring every step of the way.

We use specialist high-quality packaging to protect the components.

In order to protect the environment, we also use original manufacturer packaging.



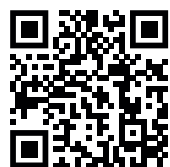
OTHER TME CATALOGUES

In our catalogues, you will find products from well-known global brands with wide portfolios and from small, specialist manufacturers.

- Development tools
- Enclosures
- Tools
- Connectors



MAIN CATALOGUE



How to browse through the catalogues:

- in the web browser
- download the PDF version

OVERVIEW OF SELECTED PRODUCT GROUPS

Final remarks



Information included in the catalogue is as of 01.09.2025.

Find tips for navigating the tme.eu website in the Help tab.

The offer above is for information purposes only and is not a commercial offer within the meaning of Art. 66 §1 of the Civil Code.



T.M.E4FACTORY

INDEX



Automation / 1

- Sensors and transducers / 2
- Control / 14
- Pneumatics / 23

Electrical engineering / 25

- Fuses and circuit breakers / 26
- Switches and indicators / 35
- Sound transducers / 42
- Relays and contactors / 44
- Transformers / 52
- Fans, cooling and heating systems / 55
- Light sources / 58

Mechanical elements / 59

- Mechanical elements / 60

Enclosures / 71

- Enclosures / 72

Workplace equipment / 79

- Measuring instruments and accessories / 80
- Soldering equipment / 93
- Chemical products / 97
- Tools / 99
- Antistatic protection / 106

Connectors / 109

- Data connectors / 110
- Industrial connectors / 111
- Power connectors / 123
- Soldering connectors and terminals / 129

Cables and accessories / 133

- Cables / 134
- Connecting leads / 153
- Cables accessories / 159

Passive components / 163

- Heating and wirewound resistors / 164
- Motor and lighting capacitors / 168
- EMI/EMC protection / 171
- Power factor correction / 174

Power sources / 177

- Power supplies / 178
- Converters / 194

Embedded systems / 199

- Embedded systems / 200



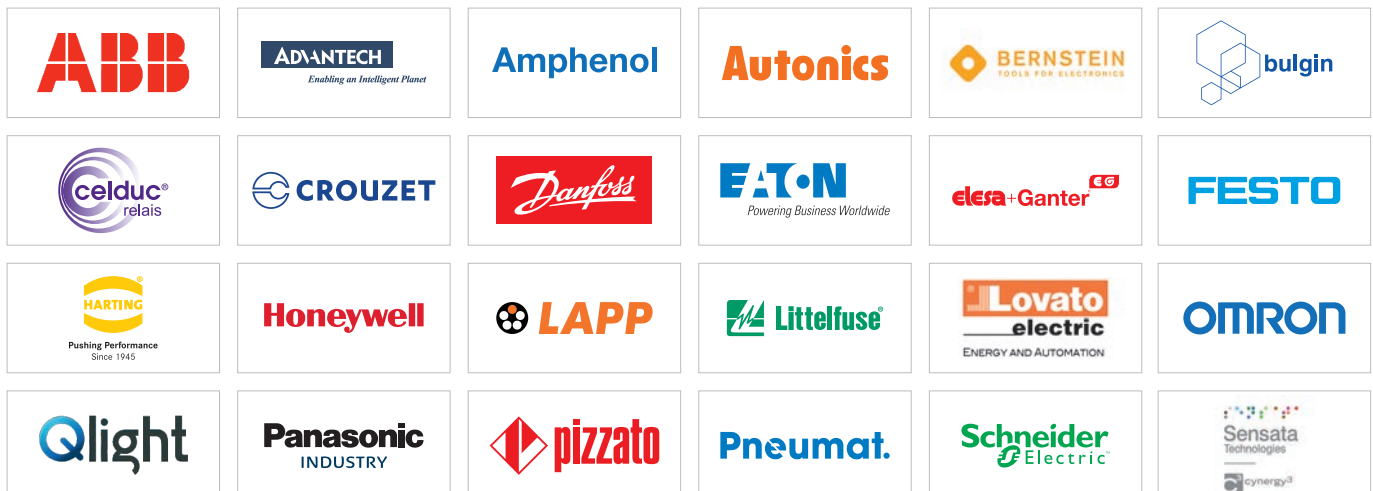
Automation

In our catalogue you will find components useful at every stage of designing and operating industrial systems.

At TME you will find, among others:

- Thousands of sensors and transducers for measuring various parameters
- Elements of machine and production line control and regulation systems
- Signal devices and recorders
- Building automation components
- Electric motors and pneumatic systems

Our portfolio includes, among others:



The 4Factory catalogue is only a representation of TME's full offer.

Visit our website to discover it in full.



Sensors and transducers	2
Control	14
Pneumatics	23

1

Automation

Sensors and transducers

Sensor: inductive; IP67; M8; IME08; SICK



Manufacturer : SICK
 Type of sensor : inductive
 Housing : M8
 Body material : brass
 Supply voltage : 10...30V DC
 Max. operating current : 200mA
 Operating temperature : -25...75°C
 IP rating : IP67
 Manufacturer series : IME08
 Plating material : nickel

Symbol	Kind of forehead	Range [mm]	Output conf.	Connection	Lead length [m]
IME08-02BPSZT0K	embedded	0...2	PNP / NO	M8 male	-
IME08-02BNSZT0K	embedded	0...2	NPN / NO	M8 male	-
IME08-02BPSZW2K	embedded	0...2	PNP / NO	cables	2
IME08-02BNSZW2K	embedded	0...2	NPN / NO	cables	2
IME08-02BPSZT0S	embedded	0...2	PNP / NO	M8 male	-
IME08-02BNSZT0S	embedded	0...2	NPN / NO	M8 male	-
IME08-02BPSZW2S	embedded	0...2	PNP / NO	cables	2
IME08-02BNSZW2S	embedded	0...2	NPN / NO	cables	2
IME08-04NPSZT0K	non-embedded	0...4	PNP / NO	M8 male	-
IME08-04NNSZT0K	non-embedded	0...4	NPN / NO	M8 male	-
IME08-04NPSZW2K	non-embedded	0...4	PNP / NO	cables	2
IME08-04NNSZW2K	non-embedded	0...4	NPN / NO	cables	2
IME08-04NPSZT0S	non-embedded	0...4	PNP / NO	M8 male	-
IME08-04NNSZT0S	non-embedded	0...4	NPN / NO	M8 male	-
IME08-04NPSZW2S	non-embedded	0...4	PNP / NO	cables	2
IME08-04NNSZW2S	non-embedded	0...4	NPN / NO	cables	2

Sensor: inductive; IP67; M12; IME12; SICK



Manufacturer : SICK
 Type of sensor : inductive
 Housing : M12
 Body material : brass
 Supply voltage : 10...30V DC
 Max. operating current : 200mA
 Switch. freq. max : 2000Hz
 Operating temperature : -25...75°C
 IP rating : IP67
 Manufacturer series : IME12
 Plating material : nickel

Symbol	Kind of forehead	Range [mm]	Output conf.	Connection	Lead length [m]
IME12-04BPSZC0K	embedded	0...4	PNP / NO	M12 male	-
IME12-04BNSZC0K	embedded	0...4	NPN / NO	M12 male	-
IME12-04BPSZW2K	embedded	0...4	PNP / NO	cables	2
IME12-04BNSZW2K	embedded	0...4	NPN / NO	cables	2
IME12-04BPSZC0S	embedded	0...4	PNP / NO	M12 male	-
IME12-04BNSZC0S	embedded	0...4	NPN / NO	M12 male	-
IME12-04BPSZW2S	embedded	0...4	PNP / NO	cables	2
IME12-04BNSZW2S	embedded	0...4	NPN / NO	cables	2
IME12-08NPSZC0K	non-embedded	0...8	PNP / NO	M12 male	-
IME12-08NNSZC0K	non-embedded	0...8	NPN / NO	M12 male	-
IME12-08NPSZW2K	non-embedded	0...8	PNP / NO	cables	2
IME12-08NNSZW2K	non-embedded	0...8	NPN / NO	cables	2
IME12-08NPSZC0S	non-embedded	0...8	PNP / NO	M12 male	-
IME12-08NNSZC0S	non-embedded	0...8	NPN / NO	M12 male	-
IME12-08NPSZW2S	non-embedded	0...8	PNP / NO	cables	2
IME12-08NNSZW2S	non-embedded	0...8	NPN / NO	cables	2

Sensor: inductive; IP67; M18; IME18; SICK

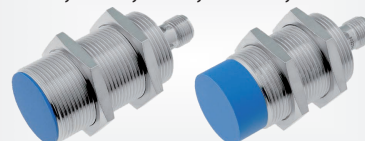


Manufacturer : SICK
 Type of sensor : inductive

Housing : M18
 Body material : brass
 Supply voltage : 10...30V DC
 Max. operating current : 200mA
 Switch. freq. max : 1000Hz
 Operating temperature : -25...75°C
 IP rating : IP67
 Manufacturer series : IME18
 Plating material : nickel

Symbol	Kind of forehead	Range [mm]	Output conf.	Connection	Number of pins	Lead length [m]
IME18-08BPSZC0K	embedded	0...8	PNP / NO	M12 male	4	-
IME18-08BNSZC0K	embedded	0...8	NPN / NO	M12 male	4	-
IME18-08BPSZW2K	embedded	0...8	PNP / NO	cables	-	2
IME18-08BNSZW2K	embedded	0...8	NPN / NO	cables	-	2
IME18-08BPSZC0S	embedded	0...8	PNP / NO	M12 male	4	-
IME18-08BNSZC0S	embedded	0...8	NPN / NO	M12 male	4	-
IME18-08BPSZW2S	embedded	0...8	PNP / NO	cables	-	2
IME18-08BNSZW2S	embedded	0...8	NPN / NO	cables	-	2
IME18-12NPSZC0K	non-embedded	0...12	PNP / NO	M12 male	4	-
IME18-12NNSZC0K	non-embedded	0...12	NPN / NO	M12 male	4	-
IME18-12NPSZW2K	non-embedded	0...12	PNP / NO	cables	-	2
IME18-12NNSZW2K	non-embedded	0...12	NPN / NO	cables	-	2
IME18-12NPSZC0S	non-embedded	0...12	PNP / NO	M12 male	4	-
IME18-12NNSZC0S	non-embedded	0...12	NPN / NO	M12 male	4	-
IME18-12NPSZW2S	non-embedded	0...12	PNP / NO	cables	-	2
IME18-12NNSZW2S	non-embedded	0...12	NPN / NO	cables	-	2

Sensor: inductive; IP67; M30; IME30; SICK



Manufacturer : SICK
 Type of sensor : inductive
 Housing : M30
 Body material : brass
 Supply voltage : 10...30V DC
 Max. operating current : 200mA
 Switch. freq. max : 500Hz
 Operating temperature : -25...75°C
 IP rating : IP67
 Manufacturer series : IME30
 Plating material : nickel

Symbol	Kind of forehead	Range [mm]	Output conf.	Connection	Number of pins	Lead length [m]
IME30-15BPSZC0K	embedded	0...15	PNP / NO	M12 male	4	-
IME30-15BNSZC0K	embedded	0...15	NPN / NO	M12 male	4	-
IME30-15BPSZW2K	embedded	0...15	PNP / NO	cables	-	2
IME30-15BNSZW2K	embedded	0...15	NPN / NO	cables	-	2
IME30-15BPSZC0S	embedded	0...15	PNP / NO	M12 male	4	-
IME30-15BNSZC0S	embedded	0...15	NPN / NO	M12 male	4	-
IME30-15BPSZW2S	embedded	0...15	PNP / NO	cables	-	2
IME30-15BNSZW2S	embedded	0...15	NPN / NO	cables	-	2
IME30-20NPSZC0K	non-embedded	0...20	PNP / NO	M12 male	4	-
IME30-20NNSZC0K	non-embedded	0...20	NPN / NO	M12 male	4	-
IME30-20NPSZW2K	non-embedded	0...20	PNP / NO	cables	-	2
IME30-20NNSZW2K	non-embedded	0...20	NPN / NO	cables	-	2
IME30-20NPSZC0S	non-embedded	0...20	PNP / NO	M12 male	4	-
IME30-20NNSZC0S	non-embedded	0...20	NPN / NO	M12 male	4	-
IME30-20NPSZW2S	non-embedded	0...20	PNP / NO	cables	-	2
IME30-20NNSZW2S	non-embedded	0...20	NPN / NO	cables	-	2

Sensor: inductive; IP67; M8; stainless steel; OMRON



Manufacturer : OMRON
 Type of sensor : inductive
 Housing : M8
 Body material : stainless steel
 Supply voltage : 10...30V DC
 Max. operating current : 200mA
 Operating temperature : -25...70°C
 IP rating : IP67

cont. on the next page

Sensor: inductive; IP67; M8; stainless steel; OMRON (cont.)

Symbol	Kind of forehead	Range [mm]	Output conf.	Conne- ction	No. of pins	Lead length [m]
E2BS08KN02MCB1	non-embedded	0..2	PNP / NO	M8 male	3	-
E2BS08KN02MCC1	non-embedded	0..2	NPN / NO	M8 male	3	-
E2BS08KN02WPB12M	non-embedded	0..2	PNP / NO	cables	-	2
E2BS08KN02WPC12M	non-embedded	0..2	NPN / NO	cables	-	2
E2BS08KS01MCB1	embedded	0..1.5	PNP / NO	M8 male	3	-
E2BS08KS01MCC1	embedded	0..1.5	NPN / NO	M8 male	3	-
E2BS08KS01WPB12M	embedded	0..1.5	PNP / NO	cables	-	2
E2BS08KS01WPC12M	embedded	0..1.5	NPN / NO	cables	-	2
E2BS08LN02MCB1	non-embedded	0..2	PNP / NO	M8 male	3	-
E2BS08LN02WPB12M	non-embedded	0..2	PNP / NO	cables	-	2
E2BS08LS01MCB1	embedded	0..1.5	PNP / NO	M8 male	3	-
E2BS08LS01WPB12M	embedded	0..1.5	PNP / NO	cables	-	2
E2BS08LS01WPC12M	embedded	0..1.5	NPN / NO	cables	-	2
E2BS08KN04MCB1	non-embedded	0..4	PNP / NO	M8 male	3	-
E2BS08KN04MCC1	non-embedded	0..4	PNP / NC	M8 male	3	-
E2BS08KN04MCC1	non-embedded	0..4	NPN / NO	M8 male	3	-
E2BS08KN04WPB12M	non-embedded	0..4	PNP / NO	cables	-	2
E2BS08KN04WPC12M	non-embedded	0..4	NPN / NO	cables	-	2
E2BS08KS02MCB1	embedded	0..2	PNP / NO	M8 male	3	-
E2B-S08KS02-MC-B1	embedded	0..2	PNP / NO	M8 male	3	-
E2BS08KS02MCC1	embedded	0..2	NPN / NO	M8 male	3	-
E2BS08KS02WPB12M	embedded	0..2	PNP / NO	cables	-	2
E2BS08KS02WPC12M	embedded	0..2	NPN / NO	cables	-	2
E2BS08LN04MCB1	non-embedded	0..4	PNP / NO	M8 male	3	-
E2BS08LN04MCC1	non-embedded	0..4	NPN / NO	M8 male	3	-
E2BS08LN04WPB12M	non-embedded	0..4	PNP / NO	cables	-	2
E2BS08LN04WPC12M	non-embedded	0..4	NPN / NO	cables	-	2
E2BS08LS02MCB1	embedded	0..2	PNP / NO	M8 male	3	-
E2BS08LS02MCC1	embedded	0..2	NPN / NO	M8 male	3	-
E2BS08LS02WPB12M	embedded	0..2	PNP / NO	cables	-	2
E2BS08LS02WPC12M	embedded	0..2	NPN / NO	cables	-	2

Sensor: inductive; IP67; M12; brass; OMRON**OMRON**

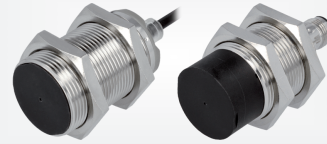
Manufacturer : OMRON
 Type of sensor : inductive
 Housing : M12
 Body material : brass
 Supply voltage : 10...30V DC
 Max. operating current : 200mA
 IP rating : IP67
 Operating temperature : -25...70°C
 Plating material : nickel

Symbol	Kind of forehead	Range [mm]	Output conf.	Conne- ction	No. of pins	Lead length [m]
E2BM12KN05WPB12M	non-embedded	0..5	PNP / NO	cables	-	2
E2BM12KN05WPC12M	non-embedded	0..5	NPN / NO	cables	-	2
E2BM12KS02M1B1	embedded	0..2	PNP / NO	M12 male	4	-
E2BM12KS02M1C1	embedded	0..2	NPN / NO	M12 male	4	-
E2BM12KS02WPB12M	embedded	0..2	PNP / NO	cables	-	2
E2BM12KS02WPC12M	embedded	0..2	NPN / NO	cables	-	2
E2BM12LN05M1B1	non-embedded	0..5	PNP / NO	M12 male	4	-
E2BM12LN05M1C1	non-embedded	0..5	NPN / NO	M12 male	4	-
E2BM12LN05WPB12M	non-embedded	0..5	PNP / NO	cables	-	2
E2BM12LN05WPC12M	non-embedded	0..5	NPN / NO	cables	-	2
E2BM12LS02M1B1	embedded	0..2	PNP / NO	M12 male	4	-
E2BM12LS02M1C1	embedded	0..2	NPN / NO	M12 male	4	-
E2BM12LS02WPB12M	embedded	0..2	PNP / NO	cables	-	2
E2BM12LS02WPC12M	embedded	0..2	NPN / NO	cables	-	2
E2BM12KN08M1B1	non-embedded	0..8	PNP / NO	M12 male	4	-
E2BM12KN08M1C1	non-embedded	0..8	NPN / NO	M12 male	4	-
E2BM12KN08WPB12M	non-embedded	0..8	PNP / NO	cables	-	2
E2BM12KN08WPC12M	non-embedded	0..8	NPN / NO	cables	-	2
E2BM12KS04M1B1	embedded	0..4	PNP / NO	M12 male	4	-
E2BM12KS04M1C1	embedded	0..4	NPN / NO	M12 male	4	-
E2BM12KS04WPB12M	embedded	0..4	PNP / NO	cables	-	2
E2BM12KS04WPC12M	embedded	0..4	NPN / NO	cables	-	2
E2BM12LN08M1B1	non-embedded	0..8	PNP / NO	M12 male	4	-
E2BM12LN08M1C1	non-embedded	0..8	NPN / NO	M12 male	4	-
E2BM12LN08WPB12M	non-embedded	0..8	PNP / NO	cables	-	2
E2BM12LN08WPC12M	non-embedded	0..8	NPN / NO	cables	-	2
E2BM12LS04M1B1	embedded	0..4	PNP / NO	M12 male	4	-
E2BM12LS04M1C1	embedded	0..4	NPN / NO	M12 male	4	-
E2BM12LS04WPB12M	embedded	0..4	PNP / NO	cables	-	2
E2BM12LS04WPC12M	embedded	0..4	NPN / NO	cables	-	2

Sensor: inductive; IP67; M18; brass; OMRON**OMRON**

Manufacturer : OMRON
 Type of sensor : inductive
 Housing : M18
 Body material : brass
 Supply voltage : 10...30V DC
 Max. operating current : 200mA
 Operating temperature : -25...70°C
 IP rating : IP67
 Plating material : nickel

Symbol	Kind of forehead	Range [mm]	Output conf.	Conne- ction	No. of pins	Lead length [m]
E2BM18KN10M1B1	non-embedded	0..10	PNP / NO	M12 male	4	-
E2BM18KN10M1C1	non-embedded	0..10	NPN / NO	M12 male	4	-
E2BM18KN10WPB12M	non-embedded	0..10	PNP / NO	cables	-	2
E2BM18KN10WPC12M	non-embedded	0..10	NPN / NO	cables	-	2
E2BM18KS05M1B1	embedded	0..5	PNP / NO	M12 male	4	-
E2BM18KS05M1C1	embedded	0..5	NPN / NO	M12 male	4	-
E2BM18KS05WPB12M	embedded	0..5	PNP / NO	cables	-	2
E2BM18KS05WPC12M	embedded	0..5	NPN / NO	cables	-	2
E2BM18LN10M1B1	non-embedded	0..10	PNP / NO	M12 male	4	-
E2BM18LN10M1C1	non-embedded	0..10	NPN / NO	M12 male	4	-
E2BM18LN10WPB12M	non-embedded	0..10	PNP / NO	cables	-	2
E2BM18LN10WPC12M	non-embedded	0..10	NPN / NO	cables	-	2
E2BM18LS05M1B1	embedded	0..5	PNP / NO	M12 male	4	-
E2BM18LS05M1C1	embedded	0..5	NPN / NO	M12 male	4	-
E2BM18LS05WPB12M	embedded	0..5	PNP / NO	cables	-	2
E2BM18LS05WPC12M	embedded	0..5	NPN / NO	cables	-	2
E2BM18KN16M1B1	non-embedded	0..16	PNP / NO	M12 male	4	-
E2BM18KN16M1C1	non-embedded	0..16	NPN / NO	M12 male	4	-
E2BM18KN16WPB12M	non-embedded	0..16	PNP / NO	cables	-	2
E2BM18KN16WPC12M	non-embedded	0..16	NPN / NO	cables	-	2
E2BM18KS08M1B1	embedded	0..8	PNP / NO	M12 male	4	-
E2BM18KS08M1C1	embedded	0..8	NPN / NO	M12 male	4	-
E2BM18KS08WPB12M	embedded	0..8	PNP / NO	cables	-	2
E2BM18KS08WPC12M	embedded	0..8	NPN / NO	cables	-	2
E2BM18LN16M1B1	non-embedded	0..16	PNP / NO	M12 male	4	-
E2BM18LN16WPB12M	non-embedded	0..16	PNP / NO	cables	-	2
E2BM18LN16WPC12M	non-embedded	0..16	NPN / NO	cables	-	2
E2BM18LS08M1B1	embedded	0..8	PNP / NO	M12 male	4	-
E2BM18LS08M1C1	embedded	0..8	NPN / NO	M12 male	4	-
E2BM18LS08WPB12M	embedded	0..8	PNP / NO	cables	-	2
E2BM18LS08WPC12M	embedded	0..8	NPN / NO	cables	-	2

Sensor: inductive; IP67; M30; brass; OMRON**OMRON**

Manufacturer : OMRON
 Type of sensor : inductive
 Housing : M30
 Body material : brass
 Supply voltage : 10...30V DC
 Max. operating current : 200mA
 Operating temperature : -25...70°C
 IP rating : IP67
 Plating material : nickel

Symbol	Kind of forehead	Range [mm]	Output conf.	Conne- ction	No. of pins	Lead length [m]
E2BM30KN20M1B1	non-embedded	0..20	PNP / NO	M12 male	4	-
E2BM30KN20WPB12M	non-embedded	0..20	PNP / NO	cables	-	2
E2BM30KN20WPC12M	non-embedded	0..20	NPN / NO	cables	-	2
E2BM30KS10M1B1	embedded	0..10	PNP / NO	M12 male	4	-
E2BM30KS10M1C1	embedded	0..10	NPN / NO	M12 male	4	-
E2BM30KS10WPB12M	embedded	0..10	PNP / NO	cables	-	2
E2BM30KS10WPC12M	embedded	0..10	NPN / NO	cables	-	2
E2BM30KS15M1B1	embedded	0..15	PNP / NO	M12 male	4	-
E2BM30KS15M1C1	embedded	0..15	NPN / NO	M12 male	4	-
E2BM30KS15WPB12M	embedded	0..15	PNP / NO	cables	-	2
E2BM30KS15WPC12M	embedded	0..15	NPN / NO	cables	-	2
E2BM30LN20M1B1	non-embedded	0..20	PNP / NO	M12 male	4	-
E2BM30LN20WPB12M	non-embedded	0..20	PNP / NO	cables	-	2
E2BM30LN20WPC12M	non-embedded	0..20	NPN / NO	cables	-	2

cont. on the next page

Sensor: inductive; IP67; M30; brass; OMRON (cont.)

Symbol	Kind of forehead	Range [mm]	Output conf.	Conne- ction	No. of pins	Lead length [m]
E2BM30LN30M1B1	non-embedded	0...30	PNP / NO	M12 male	4	-
E2BM30LN30M1C1	non-embedded	0...30	NPN / NO	M12 male	4	-
E2BM30LN30WPB12M	non-embedded	0...30	PNP / NO	cables	-	2
E2BM30LN30WPC12M	non-embedded	0...30	NPN / NO	cables	-	2
E2BM30LS10M1B1	embedded	0...10	PNP / NO	M12 male	4	-
E2BM30LS10WPB12M	embedded	0...10	PNP / NO	cables	-	2
E2BM30LS10WPC12M	embedded	0...10	NPN / NO	cables	-	2
E2BM30LS15M1B1	embedded	0...15	PNP / NO	M12 male	4	-
E2BM30LS15M1C1	embedded	0...15	NPN / NO	M12 male	4	-
E2BM30LS15WPB12M	embedded	0...15	PNP / NO	cables	-	2
E2BM30LS15WPC12M	embedded	0...15	NPN / NO	cables	-	2

Sensor: inductive; IP67; BALLUFF



BALLUFF

Manufacturer : BALLUFF
 Type of sensor : inductive
 Operating temperature : -25...70°C
 IP rating : IP67
 Max. operating current : 200mA

Symbol	Hous- ing	Kind of forehead	Range [mm]	Conne- ction	Number of pins	U _{sup} [V DC]	f _{switch.} max [Hz]
BES001H	M8	non-embedded	0..4	M12 male	3	10...30	1.5k
BES000M	M8	non-embedded	0..4	M8 male	3	10...30	1.5k
BES001J	M8	non-embedded	0..4	M8 male	3	10...30	1.5k
BES00CH	M8	embedded	0...1.5	M12 male	3	10...30	1k
BES0027	M8	embedded	0...1.5	M12 male	4	12...30	1k
BES00CJ	M8	embedded	0...1.5	M8 male	3	10...30	1k
BES003C	M8	embedded	0...1.5	M8 male	3	12...30	1k
BES0037	M8	embedded	0...1.5	cables	-	12...30	1k
BES00FC	M8	embedded	0..2	M12 male	3	10...30	700
BES0028	M8	embedded	0..2	M12 male	3	12...30	700
BES00CK	M8	embedded	0..2	M8 male	3	10...30	700
BES003P	M8	embedded	0..2	M8 male	3	12...30	700
BES003K	M8	embedded	0..2	cables	-	12...30	700
BES01PY	M12	non-embedded	0..8	M12 male	3	10...30	800
BES004N	M12	non-embedded	0..8	M12 male	3	10...30	800
BES00EE	M12	embedded	0..2	M12 male	3	10...30	1.2k
BES0060	M12	embedded	0..2	M12 male	3	12...30	1.2k
BES04CU	M12	embedded	0..2	cables	-	10...30	1.2k
BES005U	M12	embedded	0..2	cables	-	12...30	1.2k
BES00EF	M12	embedded	0..4	M12 male	3	10...30	300
BES0068	M12	embedded	0..4	M12 male	3	12...30	500
BES00E5	M12	embedded	0..4	cables	-	10...30	300
BES0064	M12	embedded	0..4	cables	-	12...30	500
BES00EY	M18	embedded	0..5	M12 male	3	10...30	700
BES0086	M18	embedded	0..5	M12 male	3	12...30	700
BES0082	M18	embedded	0..5	cables	-	12...30	700
BES00EZ	M18	embedded	0..8	M12 male	3	10...30	150
BES008L	M18	embedded	0..8	M12 male	3	12...30	1k
BES00EP	M18	embedded	0..8	cables	-	10...30	150
BES008E	M18	embedded	0..8	cables	-	12...30	150
BES00A3	M30	embedded	0...10	M12 male	4	12...30	400
BES00AF	M30	embedded	0...15	M12 male	4	10...30	100

Symbol	Manufacturer series	Output conf.	Lead length [m]	Plating material
BES001H	GLOBAL	PNP / NO	-	-
BES000M	GLOBAL	PNP / NO	-	-
BES001J	GLOBAL	PNP / NO	-	-
BES00CH	GLOBAL	PNP / NO	-	-
BES0027	GLOBAL	PNP / NO	-	nickel
BES00CJ	GLOBAL	PNP / NO	-	-
BES003C	GLOBAL	PNP / NO	-	nickel
BES0037	GLOBAL	PNP / NO	2	nickel
BES00FC	GLOBAL	PNP / NO	-	-
BES0028	GLOBAL	PNP / NO	-	nickel
BES00CK	GLOBAL	PNP / NO	-	-
BES003P	GLOBAL	PNP / NO	-	nickel
BES003K	GLOBAL	PNP / NO	2	nickel
BES01PY	GLOBAL	PNP / NO	-	nickel
BES004N	GLOBAL	PNP / NO	-	nickel
BES00EE	GLOBAL	PNP / NO	-	nickel
BES0060	GLOBAL	PNP / NO	-	nickel
BES04CU	GLOBAL	PNP / NO	2	nickel
BES005U	GLOBAL	PNP / NO	2	nickel
BES00EF	GLOBAL	PNP / NO	-	nickel
BES0068	GLOBAL	PNP / NO	-	nickel
BES00E5	GLOBAL	PNP / NO	2	nickel

Symbol	Manufacturer series	Output conf.	Lead length [m]	Plating material
BES0064	GLOBAL	PNP / NO	2	nickel
BES00EY	GLOBAL	PNP / NO	-	nickel
BES0086	GLOBAL	PNP / NO	-	nickel
BES0082	GLOBAL	PNP / NO	2	nickel
BES00EZ	GLOBAL	PNP / NO	-	nickel
BES008L	GLOBAL	PNP / NO	-	nickel
BES00EP	GLOBAL	PNP / NO	2	nickel
BES008E	GLOBAL	PNP / NO	2	nickel
BES00A3	GLOBAL	PNP / NO	-	nickel
BES00AF	GLOBAL	PNP / NO	-	nickel

Sensor: inductive; IP68; PBT; GX; PANASONIC



Panasonic

Manufacturer : PANASONIC
 Type of sensor : inductive
 Body material : PBT
 U_{sup} : 12...24V DC
 Max. operating current : 100mA
 Connection : cables
 Operating temperature : -25...70°C
 IP rating : IP68
 Manufacturer series : GX
 Lead length : 1m

Symbol	Output conf.	Range [mm]	f _{switch.} max [Hz]
GX-F12A	NPN / NO	0..4	500
GX-F12A-P	PNP / NO	0..4	500
GX-F12AI-P	PNP / NO	0..4	500
GX-F15A	NPN / NO	0..5	250
GX-F15A-P	PNP / NO	0..5	250
GX-F15AI-P	PNP / NO	0..5	250
GX-F6A	NPN / NO	0..1.6	400
GX-F6A-P	PNP / NO	0..1.6	400
GX-F6AI-P	PNP / NO	0..1.6	400
GX-F8A	NPN / NO	0..2.5	500
GX-F8A-P	PNP / NO	0..2.5	500
GX-F8AI-P	PNP / NO	0..2.5	500
GX-FL15A-P	PNP / NO	0..8	150
GX-H12A	NPN / NO	0..4	500
GX-H12A-P	PNP / NO	0..4	500
GX-H12AI-P	PNP / NO	0..4	500
GX-H15A	NPN / NO	0..5	250
GX-H15A-P	PNP / NO	0..5	250
GX-H15AI-P	PNP / NO	0..5	250
GX-H6A-P	PNP / NO	0..1.6	400
GX-H6AI-P	PNP / NO	0..1.6	400
GX-H8A	NPN / NO	0..2.5	500
GX-H8A-P	PNP / NO	0..2.5	500
GX-H8AI-P	PNP / NO	0..2.5	500
GX-HL15A-P	PNP / NO	0..8	150

Sensor: inductive; OsiSense; TELEMECANIQUE SENSORS



Type of sensor : inductive
 Operating temperature : -25...70°C
 Manufacturer series : OsiSense
 Manufacturer : TELEMECANIQUE SENSORS

Symbol	Hous- ing	Kind of forehead	Output conf.	Range [mm]	U _{sup} [V DC]	IP rating
XS612B4NAL2	M12	non-embedded	NPN / NO	0..7	12...48	IP68
XS612B4PAM12	M12	non-embedded	PNP / NO	0..4	12...48	IP67
XS612B2PAL01M12	M12	non-embedded	PNP / NO	0..5	12...48	IP67
XS612B4PAL2	M12	non-embedded	PNP / NO	0..7	12...48	IP68
XS612B3DAM12	M12	embedded	2-wire NO	0..4	12...24	IP67
XS612B1DAL2	M12	embedded	2-wire NO	0..4	12...48	IP68
XS612B3DAL2	M12	embedded	2-wire NO	0..4	12...24	IP68
XS112B3NAM12	M12	embedded	NPN / NO	0..4	12...24	IP67
XS612B1NAM12	M12	embedded	NPN / NO	0..4	12...48	IP67
XS612B1PAM12	M12	embedded	PNP / NO	0..4	12...48	IP67

cont. on the next page

**Sensor: inductive; OsiSense; TELEMECANIQUE
SENSORS (cont.)**

Symbol	Housing	Kind of forehead	Output conf.	Range [mm]	U _{sup} [V DC]	IP rating	
XS112BLPAL2	M12	embedded	PNP / NO	0...2	12...24	IP68	
XS218BLPAL2	M18	non-embedded	PNP / NO	0...8	12...24	IP68	
XS618B1DAM12	M18	embedded	2-wire NO	0...8	12...48	IP67	
XS618B1DAL2	M18	embedded	2-wire NO	0...8	12...48	IP68	
XS618B1NAM12	M18	embedded	NPN / NO	0...8	12...48	IP67	
XS118BLNAL2	M18	embedded	NPN / NO	0...5	12...24	IP68	
XS118BLPAM12	M18	embedded	PNP / NO	0...5	12...24	IP67	
XS118B3PAL2	M18	embedded	PNP / NO	0...8	12...24	IP68	
XS118BLPAL2	M18	embedded	PNP / NO	0...5	12...24	IP68	
XS118B3PCM12	M18	embedded	PNP / NO + NC	0...8	12...24	IP67	
XS630B1DAL2	M30	embedded	2-wire NO	0...15	12...48	IP68	
XS130B3NAM12	M30	embedded	NPN / NO	0...15	12...24	IP67	
XS130BLNAL2	M30	embedded	NPN / NO	0...10	12...24	IP68	
XS130BLPAM12	M30	embedded	PNP / NO	0...10	12...24	IP67	
XS630B1PAL2	M30	embedded	PNP / NO	0...15	12...24	IP68	
XS208BLPAM8	M8	non-embedded	PNP / NO	0...2.5	12...24	IP67	
XS608B1DAM12	M8	embedded	2-wire NO	0...2.5	12...48	IP67	
XS608B1NAM12	M8	embedded	NPN / NO	0...2.5	12...24	IP67	
XS108B3PAM12	M8	embedded	PNP / NO	0...2	12...24	IP67	
XS608B1PAM12	M8	embedded	PNP / NO	0...2.5	12...24	IP67	
XS108B3PAM8	M8	embedded	PNP / NO	0...2	12...24	IP67	
XS108B3PAL2	M8	embedded	PNP / NO	0...2	12...24	IP68	
Symbol	I _{oper. max} [mA]	Connection	Pin	f _{switch. max} [Hz]	Overall len. [mm]	Lead length [m]	Plating material
XS612B4NAL2	200	cables	-	2500	54	2	nickel
XS612B4PAM12	200	M12 male	4	2500	66	-	nickel
XS612B2PAL01M12	200	M12, cables	4	1000	59	0.15	nickel
XS612B4PAL2	200	cables	-	2500	54	2	nickel
XS612B3DAM12	200	M12 male	4	1300	50	-	nickel
XS612B1DAL2	200	cables	-	1300	53	2	nickel
XS612B3DAL2	200	cables	-	1300	35	2	nickel
XS112B3NAM12	200	M12 male	4	2500	62	-	nickel
XS612B1NAM12	200	M12 male	4	2500	62	-	nickel
XS612B1PAM12	200	M12 male	4	2500	62	-	nickel
XS112BLPAL2	200	cables	-	2000	53	2	nickel
XS218BLPAL2	200	cables	-	250	53	2	nickel
XS618B1DAM12	200	M12 male	4	1500	74	-	nickel
XS618B1DAL2	200	cables	-	1500	62	2	nickel
XS618B1NAM12	200	M12 male	4	1000	74	-	nickel
XS118BLNAL2	200	cables	-	500	53	2	nickel
XS118BLPAM12	200	M12 male	4	2000	64	-	nickel
XS118B3PAL2	200	cables	-	1000	38	2	nickel
XS118BLPAL2	200	cables	-	2000	53	2	nickel
XS118B3PCM12	200	M12 male	4	1000	50	-	nickel
XS630B1DAL2	200	cables	-	800	62	2	nickel
XS130B3NAM12	200	M12 male	4	500	55	-	nickel
XS130BLNAL2	200	cables	-	200	57	2	nickel
XS130BLPAM12	200	M12 male	4	200	64	-	nickel
XS630B1PAL2	200	cables	-	500	62	2	nickel
XS208BLPAM8	200	M8 male	3	3000	53	-	nickel
XS608B1DAM12	100	M12 male	4	1400	62	-	-
XS608B1NAM12	200	M12 male	4	2500	62	-	nickel
XS108B3PAM12	200	M12 male	4	2500	45	-	nickel
XS608B1PAM12	200	M12 male	4	2500	62	-	nickel
XS108B3PAM8	200	M8 male	3	2500	42	-	nickel
XS108B3PAL2	200	cables	-	2500	33	2	nickel

Sensor: inductive; IP67; PSN; AUTONICS

Autonics

Manufacturer : AUTONICS
 Type of sensor : inductive
 Body material : plastic
 Kind of forehead : embedded
 Max. operating current : 200mA
 Connection : cables
 Operating temperature : -25...70°C
 IP rating : IP67
 Manufacturer series : PSN
 Lead length : 2m

Symbol	Output conf.	Range [mm]	U _{sup}	f _{switch. max} [Hz]
PSN17-5DN	NPN / NO	0...5	10...30 V DC	700
PSN17-5DN2	NPN / NC	0...5	10...30 V DC	700
PSN17-5DN-F	NPN / NO	0...5	10...30 V DC	700
PSN17-5DP	PNP / NO	0...5	10...30 V DC	700

Symbol	Output conf.	Range [mm]	U _{sup}	f _{switch. max} [Hz]
PSN17-8DN	NPN / NO	0...8	10...30 V DC	200
PSN17-8DP	PNP / NO	0...8	10...30 V DC	200
PSN25-5AC	2-wire NC	0...5	100...240 V AC	20
PSN25-5AO	2-wire NO	0...5	100...240 V AC	20
PSN25-5DN	NPN / NO	0...5	10...30 V DC	300
PSN25-5DP	PNP / NO	0...5	10...30 V DC	300
PSN30-10AC	2-wire NC	0...10	100...240 V AC	20
PSN30-10AO	2-wire NO	0...10	100...240 V AC	20
PSN30-10DN	NPN / NO	0...10	10...30 V DC	250
PSN30-10DP	PNP / NO	0...10	10...30 V DC	250
PSN30-15AC	2-wire NC	0...15	100...240 V AC	20
PSN30-15AO	2-wire NO	0...15	100...240 V AC	20
PSN30-15DN	NPN / NO	0...15	10...30 V DC	200
PSN30-15DP	PNP / NO	0...15	10...30 V DC	200
PSN40-20AC	2-wire NC	0...20	100...240 V AC	20
PSN40-20AO	2-wire NO	0...20	100...240 V AC	20

Sensor: inductive; IP67; TELEMECANIQUE SENSORS


Manufacturer : TELEMECANIQUE SENSORS
 Type of sensor : inductive
 Operating temperature : -25...70°C
 IP rating : IP67

Symbol	Kind of forehead	Range [mm]	Output conf.	U _{sup} [V DC]	U _{sup} [V AC]
XS7J1A1DAL2	embedded	0...2.5	2-wire NO	12...24	-
XS7J1A1NAL2	embedded	0...2.5	NPN / NO	12...24	-
XS7J1A1PAL2	embedded	0...2.5	PNP / NO	12...24	-
XS7F1A1DAL2	embedded	0...5	2-wire NO	12...24	-
XS7F1A1NAL2	embedded	0...5	NPN / NO	12...24	-
XS7F1A1PAL2	embedded	0...5	PNP / NO	12...24	-
XS7E1A1DAL2	embedded	0...10	2-wire NO	12...24	-
XS7E1A1NAL2	embedded	0...10	NPN / NO	12...24	-
XS7E1A1PAM8	embedded	0...10	PNP / NO	12...24	-
XS7C1A1DAM8	embedded	0...15	2-wire NO	12...24	-
XS7C1A1PAM8	embedded	0...15	PNP / NO	12...24	-
XS8E1A1NAL2	non-embedded	0...15	NPN / NO	12...24	-
XS8E1A1PAL2	non-embedded	0...15	PNP / NO	12...24	-
XS8C2A1MAU20	embedded	0...20	2-wire NO	24...240	24...240
XS8C2A1PCM12	embedded	0...20	PNP / NO + NC	12...48	-
XS8C4A1DPN12	embedded	0...20	2-wire NO/NC	12...48	-
XS8C4A1MPP20	embedded	0...20	2-wire NO/NC	24...240	24...240
XS8C4A1PCG13	embedded	0...20	PNP / NO + NC	12...48	-
XS8C4A1PCM12	embedded	0...20	PNP / NO + NC	12...48	-
XS8C4A2PCP20	embedded	0...20	PNP / NO + NC	12...48	-
XS8C1A1MAL2	non-embedded	0...25	2-wire NO	24...240	24...240
XS8C1A1PAM8	non-embedded	0...25	PNP / NO	12...24	-
XS7D1A1DAM12	non-embedded	0...40	2-wire NO	12...24	-
XS7D1A1PAM12	non-embedded	0...40	PNP / NO	12...24	-
XS8C2A4DAM12	non-embedded	0...40	2-wire NO	12...48	-
XS8C4A4MPN12	non-embedded	0...40	2-wire NO/NC	24...240	24...240
XS8C4A4NCP20	non-embedded	0...40	NPN / NO + NC	12...48	-
XS8C4A4PCN12	non-embedded	0...40	PNP / NO + NC	12...48	-
XS8D1A1MAL2	non-embedded	0...60	2-wire NO	24...240	24...240
XS8D1A1PAM12	non-embedded	0...60	PNP / NO	12...24	-

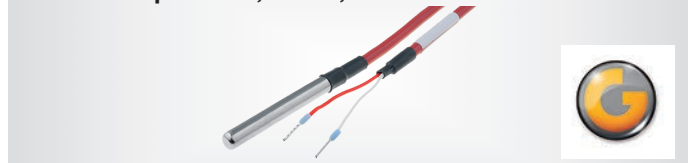
Symbol	Connection	Number of pins	Max. operating current [mA]	f _{switch. max} [Hz]	Lead length [m]
XS7J1A1DAL2	cables	-	100	4000	2
XS7J1A1NAL2	cables	-	100	2000	2
XS7J1A1PAL2	cables	-	100	2000	2
XS7F1A1DAL2	cables	-	100	5000	2
XS7F1A1NAL2	cables	-	100	2000	2
XS7F1A1PAL2	cables	-	100	2000	2
XS7E1A1DAL2	cables	-	100	1000	2
XS7E1A1NAL2	cables	-	100	1000	2
XS7E1A1PAM8	M8 male	3	100	1000	-
XS7C1A1DAM8	M8 male	3	100	1000	-
XS7C1A1PAM8	M8 male	3	100	1000	-
XS8E1A1NAL2	cables	-	100	2000	2
XS8E1A1PAL2	cables	-	100	2000	2
XS8C2A1MAU20	connector 1/2"-20 UNF	-	300	300	-
XS8C2A1PCM12	M12 male	4	200	300	-
XS8C4A1DPN12	1/2" NPT, screw terminals	-	200	300	-
XS8C4A1MPP20	M20 x 1,5, screw terminals	-	200	300	-
XS8C4A1PCG13	PG13,5, screw terminals	-	200	300	-
XS8C4A1PCM12	M12 male	4	200	300	-
XS8C4A2PCP20	M20 x 1,5, screw terminals	-	200	300	-
XS8C1A1MAL2	cables	-	200	1000	2

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Sensor: inductive; IP67; TELEMECANIQUE SENSORS (cont.)

Symbol	Connection	Number of pins	Max. operating current [mA]	f _{switch. max} [Hz]	Lead length [m]
XS8C1A1PAM8	M8 male	3	200	1000	-
XS7D1A1DAM12	M12 male	4	100	100	-
XS7D1A1PAM12	M12 male	4	100	100	-
XS8C2A4DAM12	M12 male	4	100	150	-
XS8C4A4MPN12	1/2" NPT, screw terminals	-	200	25	-
XS8C4A4NCP20	M20 x 1,5, screw terminals	-	200	200	-
XS8C4A4PCN12	1/2" NPT, screw terminals	-	200	200	-
XS8D1A1MAL2	cables	-	200	150	2
XS8D1A1PAM12	M12 male	4	200	150	-

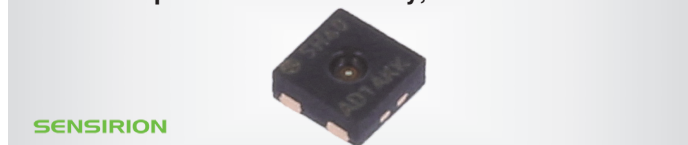
Sensor: temperature; Pt100; GUENTHER



Manufacturer : GUENTHER
 Type of sensor : temperature
 Resistance : 100Ω
 Body dimensions : Ø6x45mm
 Kind of temperature sensor : Pt100

Symbol	Tolerance	Leads	Operating temperature [°C]	Insulator material	Lead length [m]
PP45-6-300	cl.B	leads x2	-10...105	PVC	3
SS45-6-300	cl.B	leads x2	-45...180	silicone	3
SS45-6-1000	cl.A	leads x3	-45...180	silicone	10

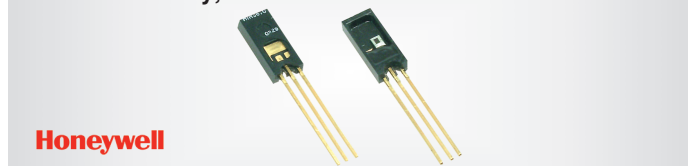
Sensor: temperature and humidity; SENSIRION



Manufacturer : SENSIRION
 Type of sensor : temperature and humidity

Symbol	U _{sup} [V DC]	Humidity measuring range [% RH]	Temperature measuring range [°C]
SHT20	2.1...3.6	0...100	-40...125
SHT21	2.1...3.6	0...100	-40...125
SHT21P	2.1...3.6	0...100	-40...125
SHT21S	2.1...3.6	0...100	-40...125
SHT25	2.1...3.6	0...100	-40...125
SHT30A-DIS-B	2.4...5.5	0...100	-40...125
SHT30-ARP-B	2.4...5.5	0...100	-40...125
SHT30-DIS-B	2.15...5.5	0...100	-40...125
SHT30-DIS-F	2.15...5.5	0...100	-40...125
SHT30-DIS-P	2.15...5.5	0...100	-40...125
SHT31A-DIS-B	2.4...5.5	0...100	-40...125
SHT31-ARP-B	2.4...5.5	0...100	-40...125
SHT31-DIS-B	2.15...5.5	0...100	-40...125
SHT31-DIS-F	2.15...5.5	0...100	-40...125
SHT31-DIS-P	2.15...5.5	0...100	-40...125
SHT35A-DIS-B	2.4...5.5	0...100	-40...125
SHT35-DIS-B	2.15...5.5	0...100	-40...125
SHT35-DIS-F	2.15...5.5	0...100	-40...125

Sensor: humidity; HONEYWELL



Manufacturer : HONEYWELL
 Type of sensor : humidity

Symbol	Supply voltage [V DC]	Humidity measuring range [% RH]	Term. pitch [mm]	Operating temperature [°C]
HIH-4000-001	4...5.8	0...100	2.54	-40...85
HIH-4000-003	4...5.8	0...100	2.54	-40...85

Sensor: ultrasonic; BUS30; BALLUFF



Type of sensor : ultrasonic
 Kind of sensor : straight
 Manufacturer : BALLUFF
 Body material : brass
 U_{sup} : 9...30V DC
 Max. operating current : 200mA
 Connection : M12 male
 Number of pins : 5
 Operating temperature : -25...70°C
 IP rating : IP67
 Additional functions : Teach-in
 Manufacturer series : BUS30
 Plating material : nickel

Symbol	Housing	Output conf.	Kind of OUT2	Range [mm]
BUS0022	M30	PNP / NO / NC	-	30...250
BUS002N	M30	analogue 4-20mA / 0-10V	-	30...250
BUS002L	M30	PNP / NO / NC	0...10V, 4...20mA	30...250
BUS005F	M30	PNP / NO / NC	-	65...350
BUS005K	M30	analogue 4-20mA / 0-10V	-	65...350
BUS005M	M30	PNP / NO / NC	0...10V, 4...20mA	65...350
BUS0039	M30	PNP / NO / NC	-	200...1300
BUS003F	M30	analogue 4-20mA / 0-10V	-	200...1300
BUS0038	M30	PNP / NO / NC	0...10V, 4...20mA	200...1300
BUS003P	M30	PNP / NO / NC	-	350...3400
BUS003T	M30	analogue 4-20mA / 0-10V	-	350...3400
BUS003L	M30	PNP / NO / NC	0...10V, 4...20mA	350...3400
BUS0045	M30	PNP / NO / NC	-	600...6000
BUS0041	M30	analogue 4-20mA / 0-10V	-	600...6000
BUS0043	M30	PNP / NO / NC	0...10V, 4...20mA	600...6000

Sensor: ultrasonic; 3RG64; PEPPERL+FUCHS



Manufacturer : PEPPERL+FUCHS
 Type of sensor : ultrasonic
 Body material : brass
 Output conf. : PNP / NO
 Supply voltage : 20...30V DC
 Max. operating current : 150mA
 Operating temperature : -25...70°C
 IP rating : IP67
 Manufacturer series : 3RG64
 Plating material : nickel

Symbol	Housing	Kind of sensor	Range [m]	Connection
3RG6422-3BB00	M18	angular	0...0.25	M12 male
3RG6422-3AB00	M18	angular	0.02...0.25	M12 male
3RG6431-3AB00	M18	straight	0.025...0.4	M12 male
3RG6421-3RS00	M18	angular	0.025...0.4	M12 male
3RG6421-3BB00	M18	angular	0...0.4	M12 male
3RG6431-3BB00	M18	straight	0...0.4	M12 male
3RG6423-3BB00	M18	angular	0...0.7	M12 male
3RG6423-3AB00	M18	angular	0.05...0.7	M12 male
3RG6433-3AB00	M18	straight	0.05...0.7	M12 male
3RG6433-3BB00	M18	straight	0.05...0.7	M12 male

Sensor: Hall; RTY; HONEYWELL



Manufacturer : HONEYWELL
 Type of sensor : Hall
 Operating temperature : -40...125°C
 IP rating : IP67
 Kind of sensor : rotary position sensor
 Related items : AMP-0-0282087-1
 Manufacturer series : RTY

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Sensor: Hall; RTY; HONEYWELL (cont.)

Symbol	Measuring range	U _{sup} [V DC]	Connectors for the country
RTY050LVEAX	50° (±25°)	4.5...5.5	Europe
RTY060HVNAX	60° (±30°)	10...30	USA
RTY060LVNAX	60° (±30°)	4.5...5.5	USA
RTY070LVEAX	70° (±35°)	4.5...5.5	Europe
RTY070LVNAX	70° (±35°)	4.5...5.5	USA
RTY090HVEAX	90° (±45°)	10...30	Europe
RTY090LVEAX	90° (±45°)	4.5...5.5	Europe
RTY090LVNAX	90° (±45°)	4.5...5.5	USA
RTY120HVNAX	120° (±60°)	10...30	USA
RTY120LVEAX	120° (±60°)	4.5...5.5	Europe
RTY120LVNAX	120° (±60°)	4.5...5.5	USA
RTY180HVEAX	180° (±90°)	10...30	Europe
RTY180HVEAA	180° (±90°)	10...30	Europe
RTY180LVEAX	180° (±90°)	4.5...5.5	Europe
RTY180LVNAX	180° (±90°)	4.5...5.5	USA
RTY270HVEAX	270° (±135°)	10...30	Europe
RTY270LVEAX	270° (±135°)	4.5...5.5	Europe
RTY270LVNAX	270° (±135°)	4.5...5.5	USA
RTY360HVEAX	360° (±180°)	10...30	Europe
RTY360HVNAX	360° (±180°)	10...30	USA
RTY360LVEAX	360° (±180°)	4.5...5.5	Europe

Related articles:

Symbol	Product description
AMP-0-0282087-1	Connector:wire-wire;plug;female;Superseal 1.5;24VDC;PIN:3

Sensirion pressure sensors



SENSIRION

Manufacturer : SENSIRION

Symbol	Output configuration	U _{sup} [V DC]	Pressure measuring range [Pa]
SDP31-500PA	I2C	2.7...5.5	-500...500
SDP32-125PA	I2C	2.7...5.5	-125...125
SDP36-500PA	analogue	2.7...5.5	-500...500
SDP37-125PA	analogue	2.7...5.5	-125...125
SDP800-125PA	I2C	2.7...5.5	-125...125
SDP800-500PA	I2C	2.7...5.5	-500...500
SDP806-125PA	analogue	2.7...5.5	-125...125
SDP806-500PA	analogue	2.7...5.5	-500...500
SDP810-125PA	I2C	2.7...5.5	-125...125
SDP810-500PA	I2C	2.7...5.5	-500...500
SDP816-125PA	analogue	2.7...5.5	-125...125
SDP816-500PA	analogue	2.7...5.5	-500...500
SDP33-1500PA-TR	I2C	3...5.5	-1.5k...1.5k
SDP801-500PA-D	I2C	2.7...5.5	-500...500
SDP811-500PA-D	I2C	2.7...5.5	-500...500
SDP1000-L025	I2C	4.75...5.25	-62...62
SDP1000-L05	I2C	4.75...5.25	-5...125
SDP1108-R	analogue	4.75...5.25	0...500
SDP2000-L	analogue	4.75...5.25	-100...3500
SDP600-025PA	I2C	3...3.6	-25...25
SDP600-125PA	I2C	3...3.6	-125...125
SDP600-500PA	I2C	3...3.6	-500...500
SDP601-500PA	I2C	3...3.6	-500...500
SDP610-025PA	I2C	3...3.6	-25...25
SDP610-125PA	I2C	3...3.6	-125...125
SDP610-500PA	I2C	3...3.6	-500...500
SDP611-500PA	I2C	3...3.6	-500...500

Sensor: flow; SENSIRION



SENSIRION

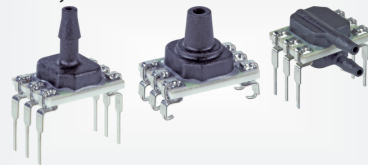
Manufacturer : SENSIRION

Type of sensor : flow

Symbol	Measuring range	Output conf.	U _{sup} [V DC]
SFM3000-200	-200...200slm	I2C	4.75...5.25
SFM3000-200C	-200...200slm	I2C	4.75...5.25

Symbol	Measuring range	Output conf.	U _{sup} [V DC]
SFM4100-AIR	0...20 SLPM	I2C	3.5...9
SFM3019-240-C	-10...240slm	I2C	2.7...5.5
SFM3020-160-C	-10...160 SLPM	analogue	5
ASF1400	-400...400sccm	-	7...18
ASF1430	-400...400sccm	-	7...18
LG16-0150D	0...7µl/min	I2C	4...12
LG16-0430D	0...80µl/min	I2C	4...12
LG16-0431D	0...80µl/min	I2C	4...12
LG16-1000D	0...1000µl/min	I2C	4...12
LG16-2000D	0...5000µl/min	I2C	4...12
LG16-2000HC-D	0...80ml/min	I2C	4...12
LG16-KIT	-	I2C	4...12
SEK-LD20-2600B	-1000...1000ml/h	I2C	3.2...3.8
SEK-SFM3000	-200...200slm	I2C	5
SEK-SFM3019	-10...240slm	I2C	2.7...5.5
SEK-SFM3200	-100...250slm	I2C	4.75...5.25
SEK-SFM4100	0...20slm	I2C	3.5...9
SFM3100-VC	-20...240slm	I2C	4.75...5.25
SFM3200-250	-100...250slm	I2C	4.75...5.25
SFM3200-250-AW	-100...250slm	I2C	4.75...5.25
SFM3300-250-AW	-250...250slm	I2C	4.75...5.25
SFM3300-250-D	-250...250slm	I2C	4.75...5.25
SFM3400-33-AW	-33...33slm	I2C	4.75...5.6
SFM3400-33-D	-33...33slm	I2C	4.75...5.6
SFM4100-AIR-N2-D	0...20slm	I2C	3.5...9
SFM4100-AR-D	0...20slm	I2C	3.5...9
SFM4100-AR-LEGRIS	0...20slm	I2C	3.5...9
SFM4100-CO2-D	0...20slm	I2C	3.5...9
SFM4100-CO2-LEGRIS	0...20slm	I2C	3.5...9
SFM4100-N2O-D	0...20slm	I2C	3.5...9
SFM4100-N2O-LEGRIS	0...20slm	I2C	3.5...9
SFM4100-O2-D	0...20slm	I2C	3.5...9
SFM4100-O2-LEGRIS	0...20slm	I2C	3.5...9
SLF3S-0600F	-2000...2000µl/min	I2C	3.2...3.8
SLF3S-1300F	-40...40ml/h	I2C	3.2...3.8
SEK-SFM3003-300-CL	-	I2C	2.7...5.5
SEK-SFM3013-300-CL	-30...300slm	I2C	2.7...5.5
SFM3003-300-CE	-30...300slm	I2C	2.7...5.5
SFM3003-300-CL	-150...300slm	I2C	2.7...5.5
SFM3013-300-CL	-30...300slm	I2C	2.7...5.5
SFM3013-300-CLM	-30...300slm	I2C	2.7...5.5
SFM3119-240-CL	-10...240slm	I2C	2.7...5.5

Sensor: pressure; HONEYWELL



Honeywell

Manufacturer : HONEYWELL

Type of sensor : pressure

Symbol	Pressure measuring range	Output conf.	U _{sup} [V DC]
ABPDANT006BGAA5	0...6bar	analogue	5
ABPDANT006KGSAA5	0...6kPa	SPI	5
ABPDANT030PG0D3	0...30psi	I2C	3.3
ABPDANT030PG0D5	0...30psi	I2C	5
ABPDANT060MGAA5	0...60mbar	analogue	5
ABPDANT100PGAA5	0...100psi	analogue	5
ABPDANT150PG4A5	0...150psi	I2C	5
ABPDANT150PGAA5	0...150psi	analogue	5
ABPDANV001BD2A5	-1...1bar	I2C	5
ABPDANV005PGSA5	0...5psi	SPI	5
ABPDANV015PGAA5	0...15psi	analogue	5
ABPDANV015PGSA3	0...15psi	SPI	3.3
ABPDANV030PGAA5	0...30psi	analogue	5
ABPDANV030PGSA3	0...30psi	SPI	3.3
ABPDANV030PGSA5	0...30psi	SPI	5
ABPDANV060PGAA5	0...60psi	analogue	5
ABPDANV060PGSA3	0...60psi	SPI	3.3
ABPDANV150PGAA5	0...150psi	analogue	5
ABPDANV150PGSA3	0...150psi	SPI	3.3
ABPDLNN030PGAA3	0...30psi	analogue	3.3
ABPDLNT060MGAA5	0...60mbar	analogue	5
ABPDLNT150PGAA3	0...150psi	analogue	3.3
ABPDLNT150PGAA5	0...150psi	analogue	5
ABPDLNV150PGSD3	0...150psi	SPI	3.3
ABPDRRN001BDA5	-1...1bar	analogue	5
ABPDRRN060MGSA5	0...60mbar	SPI	5
ABPDRRN100MDAA5	-100...100mbar	analogue	5
ABPDRRT005PG2A3	0...5psi	I2C	3.3

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Sensor: pressure; HONEYWELL (cont.)

Symbol	Pressure measuring range	Output conf.	U _{sup} [V DC]
ABPDRRT015PG0D5	0...15psi	I2C	5
ABPDRRT015PG3D3	0...15psi	I2C	3.3
ABPDRRT100MGAA3	0...100mbar	analogue	3.3
ABPDRRT100MGAA5	0...100mbar	analogue	5
ABPDRRV001PDAA5	-1...1psi	analogue	5
ABPDRRV001PDSA3	-1...1psi	SPI	3.3
ABPDRRV015PDAA5	-15...15psi	analogue	5
ABPDRRV015PDSA3	-15...15psi	SPI	3.3
ABPDRRV060MG0S3	0...60mbar	I2C	3.3
ABPDRRV060MGAA5	0...60mbar	analogue	5
ABPDRRV060MGSA3	0...60mbar	SPI	3.3
ABPDRRV600MGAA5	0...600mbar	analogue	5
ABPDRRV600MGSA3	0...600mbar	SPI	3.3

Sensor: liquid level; LS02; MEDER



Manufacturer : MEDER
 Type of sensor : liquid level
 Features : sensor for vertical mounting
 Manufacturer series : LS02

Symbol	Output conf.	P _{switch} max [W]	I _{oper} max [A]	U _{oper} max [V DC]	U _{oper} max [V AC]	Lead length [m]	Operating temp. [°C]
LS02-1A66-PA-500W	SPST-NO	10	0.5	200	200	0.5	-20...90
LS02-1A66-PP-500W	SPST-NO	10	0.5	200	200	0.5	-20...90
LS02-1A85-PP-500W	SPST-NO	100	1	1000	1000	0.5	-55...130
LS02-1B66-PA-500W	SPST-NC	10	0.5	200	200	0.5	-20...90
LS02-1B66-PP-500W	SPST-NC	10	0.5	200	200	0.5	-20...90
LS02-1B85-PP-500W	SPST-NC	100	1	1000	1000	0.5	-55...130
LS02-1A66-S-500W	SPST-NO	10	0.5	200	200	0.5	-30...80
LS02-1B66-S-500W	SPST-NC	10	0.5	200	200	0.5	-30...80
Symbol	Connection	Body mat.	Application				
LS02-1A66-PA-500W	cables	polyamide	gasoline, oil, brake fluid				
LS02-1A66-PP-500W	cables	polypropylene	dilute acids, water				
LS02-1A85-PP-500W	cables	polypropylene	dilute acids, water				
LS02-1B66-PA-500W	cables	polyamide	gasoline, oil, brake fluid				
LS02-1B66-PP-500W	cables	polypropylene	dilute acids, water				
LS02-1B85-PP-500W	cables	polypropylene	dilute acids, water				
LS02-1A66-S-500W	cables	stainless steel	-				
LS02-1B66-S-500W	cables	stainless steel	-				

Sensor: liquid level; LS03; MEDER



Manufacturer : MEDER
 Type of sensor : liquid level
 Features : sensor for horizontal mounting
 Output configuration : SPST-NO
 Manufacturer series : LS03

Symbol	P _{switch} [W]	I _{oper} max [A]	U _{oper} max [V AC]	U _{oper} max [V DC]	Operating temp. [°C]
LS03-1A66-PA-500W	10	0.5	200	200	-20...90
LS03-1A66-PP-500W	10	0.5	200	200	-20...90
LS03-1A85-PA-500W	100	1	1000	1000	-20...130
LS03-1A85-PP-500W	100	1	1000	1000	-20...130
LS03-1A85-PA-5000W	100	1	1000	1000	-20...130
LS03-1A85-PP-5000W	100	1	1000	1000	-20...130
LS03-1A71-PP-500W	10	0.5	200	200	-20...80
Symbol	Body mat.	Application		Lead length [m]	
LS03-1A66-PA-500W	polyamide	gasoline, oil, brake fluid		0.5	
LS03-1A66-PP-500W	polypropylene	dilute acids, water		0.5	
LS03-1A85-PA-500W	polyamide	gasoline, oil, brake fluid		0.5	
LS03-1A85-PP-500W	polypropylene	dilute acids, water		0.5	
LS03-1A85-PA-5000W	polyamide	gasoline, oil, brake fluid		5	
LS03-1A85-PP-5000W	polypropylene	dilute acids, water		5	
LS03-1A71-PP-500W	polypropylene	-		0.5	

Sensor: capacitive; IP67; M30; brass; CANM30; SELS



Type of sensor : capacitive
 Operating temperature : -25...70°C
 Max. operating current : 300mA
 Manufacturer : SELS
 Body material : brass
 Supply voltage : 20...250V AC
 Switch. freq. max : 25Hz
 IP rating : IP67
 Manufacturer series : CANM30
 Lead length : 2m
 Plating material : nickel

Symbol	Kind of forehead	Range [mm]	Connection	Output conf.	Housing	Overall len. [mm]
CANM3030ZM	non-embedded	0...30	cables	2-wire NO	M30	80
CANM3030RM	non-embedded	0...30	cables	2-wire NC	M30	80

Sensor: capacitive; IP67; M30; brass; CDWM30; SELS



Manufacturer : SELS
 Type of sensor : capacitive
 Body material : brass
 Supply voltage : 10...30V DC
 Max. operating current : 300mA
 Switch. freq. max : 100Hz
 Operating temperature : -25...70°C
 IP rating : IP67
 Manufacturer series : CDWM30
 Lead length : 2m
 Plating material : nickel

Symbol	Housing	Kind of forehead	Range [mm]	Output conf.	Con-nection	Overall len. [mm]
CDWM3020ZPM	M30	embedded	0...20	PNP / NO	cables	80
CDWM3020ZRPM	M30	embedded	0...20	PNP / NO + NC	cables	80

Sensor: capacitive; IP67; GLOBAL; BALLUFF



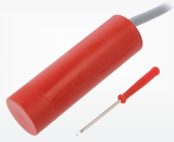
Manufacturer : BALLUFF
 Type of sensor : capacitive
 U_{sup} : 10...30V DC
 Output conf. : PNP / NO
 Max. operating current : 100mA
 f_{switch} max : 100Hz
 Operating temperature : -25...85°C
 IP rating : IP67
 Manufacturer series : GLOBAL

Symbol	Housing	Kind of forehead	Range [mm]	Con-nection	Number of pins	Body material	Lead length [m]
BCS00P0	M12	embedded	1...4	M12 male	4	steel	-
BCS00R4	M12	embedded	1...4	cables	-	steel	2
BCS00PJ	M12	embedded	1...4	M12 male	4	PBT	-
BCS00PU	M12	embedded	1...4	cables	-	PBT	2
BCS00P4	M12	non-embedded	1...8	M12 male	4	steel	-
BCS00PN	M12	non-embedded	1...8	M12 male	4	PBT	-
BCS00R0	M12	non-embedded	1...8	cables	-	PBT	2
BCS00MF	M18	embedded	2...8	M12 male	4	steel	-
BCS00M8	M18	embedded	2...8	M12 male	4	PBT	-
BCS00NZ	M18	embedded	2...8	cables	-	PBT	2
BCS00ME	M18	non-embedded	2...15	M12 male	4	steel	-
BCS00LM	M18	non-embedded	2...15	M12 male	4	PBT	-
BCS00LL	M18	non-embedded	2...15	cables	-	PBT	2
BCS00MR	M30	embedded	2...15	M12 male	4	steel	-
BCS00N2	M30	embedded	2...15	cables	-	steel	2
BCS00NA	M30	embedded	2...15	M12 male	4	PBT	-
BCS00NM	M30	embedded	2...15	cables	-	PBT	2
BCS00MY	M30	non-embedded	1...25	M12 male	4	steel	-

cont. on the next page

Sensor: capacitive; IP67; GLOBAL; BALLUFF (cont.)

Symbol	Housing	Kind of forehead	Range [mm]	Conne- ction	Number of pins	Body material	Lead length [m]
BCS00NH	M30	non-embedded	1...25	M12 male	4	PBT	-
BCS00NT	M30	non-embedded	1...25	cables	-	PBT	2

Sensor: capacitive; VC12; CARLO GAVAZZI

Manufacturer	: CARLO GAVAZZI
Connection	: cables
Operating temperature	: -20...70°C
Type of sensor	: capacitive
Body material	: polyester
Housing	: Ø32
Kind of forehead	: embedded
Range	: 4...12mm
Max. operating current	: 2A
Switch. freq. max	: 1Hz
Output conf.	: SPDT
Manufacturer series	: VC12
Lead length	: 2m

Symbol	U _{sup} [V AC]	U _{sup} [V DC]	Range	IP rating
VC12RN924	24	24	-	IP67
VC12RN230	230	-	-	IP67
VC12RT23010M	230	-	1s...10min	IP67
VC12RTM2410M	24...230	24...230	1s...10min	IP68
VC11RT23010M	230	-	1s...10min	IP67
VC11RT92410M	24	24	1s...10min	IP67
VC11RTM2410M	24...230	24...230	1s...10min	IP68
VC12RN120	120	-	-	IP67
VC12RNM24	24...230	24...230	-	IP68
VC12RT12010M	120	-	1s...10min	IP67
VC12RT92410M	24	24	1s...10min	IP67

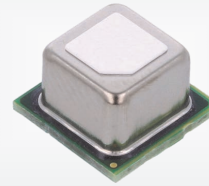
Symbol	Operation modes	Features
VC12RN924	-	sensitivity adjustable
VC12RN230	-	sensitivity adjustable
VC12RT23010M	delayed switching off	timer; sensitivity adjustable
VC12RTM2410M	delayed switching off	timer; sensitivity adjustable
VC11RT23010M	delayed switching on	timer
VC11RT92410M	delayed switching on	timer
VC11RTM2410M	delayed switching on	timer
VC12RT12010M	delayed switching off	-
VC12RT92410M	delayed switching off	-

Sensor: gas; WINSEN

Manufacturer : WINSEN

Symbol	Detected gas
MC101	combustible gases
MC105	combustible gases
MC106	combustible gases
MC107	combustible gases
MC112	combustible gases
MC112C	combustible gases
MC113	combustible gases
MC113C	combustible gases
MC114C	combustible gases
MC115	combustible gases
MD61	methane (CH ₄), hydrogen (H ₂)
ME2-CH2O-16X15	methanal (CH ₂ O)
ME2-CH2O-M16	methanal (CH ₂ O)
ME2-CO	carbon monoxide (CO)
ME2-CO-M14	carbon monoxide (CO)
ME2-O2-20MM	oxygen (O ₂)
ME2-O3-20MM	ozone (O ₃)
ME3-C2H4	etylen (C ₂ H ₄)
ME3-CL2	chlorine (Cl ₂)
ME3-CO	carbon monoxide (CO)
ME3-ETO	ethylene oxide (C ₂ H ₄ O)
ME3-H2S	hydrogen sulfide (H ₂ S)
ME3-HCL	hydrogen chloride (HCl)
ME3-NH3	ammonia (NH ₃)
ME3-NO2	nitrogen dioxide (NO ₂)

Symbol	Detected gas
ME3-O3	ozone (O ₃)
ME4-CL2	chlorine (Cl ₂)
ME4-ETO	ethylene oxide (C ₂ H ₄ O)
ME4-H2	hydrogen (H ₂)
ME4-H2S	hydrogen sulfide (H ₂ S)
ME4-NO2	nitrogen dioxide (NO ₂)
ME4-SO2	Sulphur dioxide (SO ₂)
MH-Z14A-5KPPM	carbon dioxide (CO ₂)
MH-Z16-50KPPM	carbon dioxide (CO ₂)
MP-2	propane (C ₃ H ₈)
MP-3B	ethylic alcohol (C ₂ H ₅ OH)
MP-4	methane (CH ₄)
MP-5	propane (C ₃ H ₈)
MQ131	ozone (O ₃)
MQ131-LOW	ozone (O ₃)
MQ135	ammonia (NH ₃), benzene
MQ136	hydrogen sulfide (H ₂ S)
MQ137	ammonia (NH ₃)
MQ138	acetone, alcohol, toluene, hydrogen (H ₂)
MQ-2	smoke, combustible gases
MQ-3B	ethylic alcohol (C ₂ H ₅ OH)
MQ303B	ethylic alcohol (C ₂ H ₅ OH)
MQ-4	methane (CH ₄)
MQ-5	methane (CH ₄), propane-butane (LPG)
MQ-6	propane-butane (LPG)
MQ-7B	carbon monoxide (CO)
MQ-8	hydrogen (H ₂)
ZE03-CO	carbon monoxide (CO)
ZE03-H2S	hydrogen sulfide (H ₂ S)
ZE03-NH3	ammonia (NH ₃)
ZE03-NO2	nitrogen dioxide (NO ₂)
ZE03-O2	oxygen (O ₂)
ZE03-O3	ozone (O ₃)
ZE03-SO2	Sulphur dioxide (SO ₂)
ZE08-CH2O	methanal (CH ₂ O)
ZP01-MP503	alcohol, smoke
ZP04-CH4	methane (CH ₄)
ZE14-O3	ozone (O ₃)

Sensor: gas; carbon dioxide (CO₂)

Type of sensor : gas

Detected gas : carbon dioxide (CO₂)

Symbol	Measuring range
SCD30	0...40000ppm (CO ₂)
SCD40-D-R1	400...2000ppm (CO ₂)
SCD40-D-R2	400...2000ppm (CO ₂)
SCD41-D-R1	400...5000ppm
SCD41-D-R2	400...5000ppm
STC31	0...100% VOL
STC31-R3	0...100% VOL
STC31-R5	0...100% VOL

Sensor: particles; HPM; HONEYWELL**Honeywell**

Manufacturer : HONEYWELL

Type of sensor : particles

Measuring range : 0...1000µg/m3

U_{sup} : 5V DC

Current consumption : 80mA

Response time : <6s

Manufacturer series : HPM

Symbol	Output	Controlled parameter	range	Body dimensions [mm]
HPMA115C0-003	UART	PM1.0, PM10, PM2,5, PM4.0		44x36x12
HPMA115C0-004	UART	PM1.0, PM10, PM2,5, PM4.0		44x36x12

Sensor: photoelectric; IP66; M18; ABS; E3F1; OMRON

OMRON



Manufacturer : OMRON
 Type of sensor : photoelectric
 Body material : ABS
 Housing : M18
 U_{sup} : 10...30V DC
 Operation modes : DARK-ON, LIGHT-ON
 Operating temperature : -25...55°C
 IP rating : IP66
 Manufacturer series : E3F1

Symbol	Oper. mode	Range [m]	Output conf.	Conne- tion	No. of pins	Lead length [m]
E3F1-DN11-2M	diffuse-reflective	0...0.1	NPN	cables	-	2
E3F1-DP21	diffuse-reflective	0...0.1	PNP	M12 male	4	-
E3F1-DN12-2M	diffuse-reflective	0...0.3	NPN	cables	-	2
E3F1-DP12-2M	diffuse-reflective	0...0.3	PNP	cables	-	2
E3F1-DN22	diffuse-reflective	0...0.3	NPN	M12 male	4	-
E3F1-RP11-2M	retro-reflective	0.1...3	PNP	cables	-	2
E3F1-TN11-2M	transmitter-receiver	0...15	NPN	cables	-	2
E3F1-TP21	transmitter-receiver	0...15	PNP	M12 male	4	-

Sensor: photoelectric; IP67; M18; PBT; BOS 18KF; BALLUFF

BALLUFF



Manufacturer : BALLUFF
 Type of sensor : photoelectric
 Body material : PBT
 Housing : M18
 Output conf. : PNP
 Operation modes : DARK-ON, LIGHT-ON
 U_{sup} : 10...30V DC
 Max. operating current : 100mA
 Operating temperature : -25...55°C
 IP rating : IP67
 Manufacturer series : BOS 18KF

Symbol	Oper. mode	Range [m]	No. of pins	Switch. freq. max [Hz]
BOS00JM	diffuse-reflective	5m...100m	4	500
BOS00JW	diffuse-reflective	5m...100m	4	1k
BOS00K9	diffuse-reflective	0...0.1	4	1k
BOS00K8	diffuse-reflective	0...0.1	-	1k
BOS00JZ	diffuse-reflective	0...0.4	4	1k
BOS00JY	diffuse-reflective	0...0.4	-	1k
BOS00K1	diffuse-reflective	0...0.7	4	1k
BOS00K0	diffuse-reflective	0...0.7	-	1k
BOS00K7	retro-reflective	0.1...1.7	4	1k
BOS00K3	retro-reflective	0.1...4.5	4	1k
BOS00K2	retro-reflective	0.1...4.5	-	1k
BOS00K5	retro-reflective	0.1...5	4	1k
BOS00LT	diffuse-reflective	0...0.4	4	1k

Symbol	Connection	Features	Lead length [m]
BOS00JM	M12 male	background impact elimination	-
BOS00JW	M12 male	background impact elimination	-
BOS00K9	M12 male	-	-
BOS00K8	cables	-	2
BOS00JZ	M12 male	sensitivity adjustable	-
BOS00JY	cables	sensitivity adjustable	2
BOS00K1	M12 male	sensitivity adjustable	-
BOS00K0	cables	sensitivity adjustable	2
BOS00K7	M12 male	sensitivity adjustable; detect transparent objects	-
BOS00K3	M12 male	sensitivity adjustable	-
BOS00K2	cables	sensitivity adjustable	2
BOS00K5	M12 male	-	-
BOS00LT	M12 male	-	-

Converter: temperature and humidity; AR252; APAR

APAR



Manufacturer : APAR
 Type of converter : temperature and humidity
 IP rating : IP40
 Temperature measuring range : -30...80°C
 Humidity measuring range : 0...100% RH
 Manufacturer series : AR252

Symbol	Output conf.	Display	U _{sup} [V DC]	Operating temp. [°C]
AR252/I	analogue 4-20mA	-	12...36	-30...80
AR252/I/L150	analogue 4-20mA	-	12...36	-30...80
AR252/LCD/I	analogue 4-20mA	LCD	12...36	-20...70
AR252/U	0-10V analogue	-	18...30	-30...80
AR252/LCD/U	0-10V analogue	LCD	18...30	-20...70
AR252/R485	RS485 Modbus RTU	-	12...36	-30...80
AR252/I-T	analogue 4-20mA	-	12...36	-30...80
AR252/LCD/RS485/3	RS485 Modbus RTU	LCD	12...36	-20...70
AR252/RS485/L250-T	RS485 Modbus RTU	-	12...36	-30...80

Converter: temperature; ZELIO; SCHNEIDER ELECTRIC

Schneider Electric



Manufacturer : SCHNEIDER ELECTRIC
 Type of converter : temperature
 Supply voltage : 24V DC
 Programming : DIP-SWITCH
 Operating temperature : 0...50°C
 IP rating : IP20
 Manufacturer series : ZELIO

Symbol	Kind of IN1	Kind of OUT1	Temperature measuring range [°C]
RMPT20BD	Pt100	0...10V, 0...20mA, 4...20mA	-100...100
RMPT30BD	Pt100	0...10V, 0...20mA, 4...20mA	0...100
RMPT50BD	Pt100	0...10V, 0...20mA, 4...20mA	0...250
RMPT70BD	Pt100	0...10V, 0...20mA, 4...20mA	0...500
RMPT23BD	Pt100	0...10V, 4...20mA	-100...100
RMPT53BD	Pt100	0...10V, 4...20mA	0...250
RMTJ60BD	thermocouple J	0...10V, 0...20mA, 4...20mA	0...300
RMTK80BD	thermocouple K	0...10V, 0...20mA, 4...20mA	0...600
RMTK90BD	thermocouple K	0...10V, 0...20mA, 4...20mA	0...1200

Converter: temperature; for DIN rail mounting; ACT20M; WEIDMÜLLER

Weidmüller



Manufacturer : WEIDMÜLLER
 Type of converter : temperature
 Mounting : for DIN rail mounting
 Programming : DIP-SWITCH
 Leads : screw terminals
 Body dimensions : 114.3x6.1x112.5mm
 Operating temperature : -25...70°C

Symbol	Kind of IN1	Kind of OUT1
1375480000	thermocouple J, thermocouple K	0...10V, 0...20mA, 0...5V, 4...20mA
1375500000	thermocouple J, thermocouple K	0...10V, 0...20mA, 0...5V, 4...20mA
1375510000	Pt100	0...10V, 0...20mA, 0...5V, 4...20mA
1375520000	Pt100	0...10V, 0...20mA, 0...5V, 4...20mA
1435610000	Pt100	20...4mA, 4...20mA

Symbol	U _{sup} [V DC]	Additional functions
1375480000	24	inputs / outputs galvanic insulation
1375500000	24	-
1375510000	24	inputs / outputs galvanic insulation
1375520000	24	-
1435610000	-	supply loop powered

Converter: pressure; A-10; WIKA

WIKAI



Manufacturer : WIKA
 Type of converter : pressure
 Controlled parameter : relative pressure
 Measurement accuracy : 0.5%
 Operating temperature : 0...80°C
 IP rating : IP67
 Additional functions : measurement regarding reference pressure;
 may be used for the most of industrial media

Symbol	Pressure setting range [bar]	Working press. [bar]	Mounting	Supply voltage [V DC]	Connection
A106BG310HD1ZAAM4Z	0...1	max. 2	G1/4"	8...30	M12 male
A106BG310HD1ZFCAGZ	0...1	max. 2	G1/4"	14...30	DIN EN 175301-803 A
A106BG316HD1ZAAAGZ	0...1.6	max. 3.2	G1/4"	8...30	DIN EN 175301-803 A
A106BG316HD1ZFCAGZ	0...1.6	max. 3.2	G1/4"	14...30	DIN EN 175301-803 A
A106BG325HD1ZAAAGZ	0...2.5	max. 5	G1/4"	8...30	DIN EN 175301-803 A
A106BG325HD1ZAAM4Z	0...2.5	max. 5	G1/4"	8...30	M12 male
A106BG340HD1ZAAAGZ	0...4	max. 8	G1/4"	8...30	DIN EN 175301-803 A
A106BG340HD1ZGAM4Z	0...4	max. 8	G1/4"	8...30	M12 male
A106BG360HD1ZAAAGZ	0...6	max. 12	G1/4"	8...30	DIN EN 175301-803 A
A106BG360HD1ZGAM4Z	0...6	max. 12	G1/4"	8...30	M12 male
A106BG410HD1ZAAAGZ	0...10	max. 20	G1/4"	8...30	DIN EN 175301-803 A
A106BG410HD1ZGAM4Z	0...10	max. 20	G1/4"	8...30	M12 male
A106BG416HD1ZAAM4Z	0...16	max. 32	G1/4"	8...30	M12 male
A106BG416HD1ZFCAGZ	0...16	max. 32	G1/4"	14...30	DIN EN 175301-803 A
A106BG425HD1ZAAM4Z	0...25	max. 50	G1/4"	8...30	M12 male
A106BG425HD1ZGAM4Z	0...25	max. 50	G1/4"	8...30	M12 male
A106BG440HD1ZAAAGZ	0...40	max. 80	G1/4"	8...30	DIN EN 175301-803 A
A106BG440HD1ZAAM4Z	0...40	max. 80	G1/4"	8...30	M12 male
A106BG460HD1ZAAAGZ	0...60	max. 120	G1/4"	8...30	DIN EN 175301-803 A
A106BG460HD1ZFCAGZ	0...60	max. 120	G1/4"	14...30	DIN EN 175301-803 A
A106BG510HD1ZAAM4Z	0...100	max. 200	G1/4"	8...30	M12 male
A106BG510HD1ZGAM4Z	0...100	max. 200	G1/4"	8...30	M12 male
A106BG516HD1ZAAM4Z	0...160	max. 320	G1/4"	8...30	M12 male
A106BG525HD1ZAAM4Z	0...250	max. 500	G1/4"	8...30	M12 male
A106BG525HD1ZGAM4Z	0...250	max. 500	G1/4"	8...30	M12 male
A106BG540HD1ZAAAGZ	0...400	max. 800	G1/4"	8...30	DIN EN 175301-803 A
A106BG540HD1ZFCAGZ	0...400	max. 800	G1/4"	14...30	DIN EN 175301-803 A
A106BG540HD1ZGAM4Z	0...400	max. 800	G1/4"	8...30	M12 male
A106BG560HD1ZAAM4Z	0...600	max. 1200	G1/4"	8...30	M12 male
A106BG560HD1ZGAM4Z	0...600	max. 1200	G1/4"	8...30	M12 male

Transducer; pressure; DP-100; PANASONIC

Panasonic



Manufacturer : PANASONIC
 Type of module : transducer
 Controlled parameter : pressure
 Supply voltage : 12...24V DC
 Regulation for output 1 : ON-OFF, ON-OFF with hysteresis
 The programming method : rubber keypad
 Display : LCD
 Operating temperature : -10...50°C
 IP rating : IP40
 Outputs : 2

Symbol	Mounting	Meas. accur. [%]	Connection	No. of pins
DP-101-E-P	G1/8", M5	0.1	connectors	-
DP-101A-E-P	G1/8", M5	0.1	connectors	-
DP-102-E-P	G1/8", M5	0.2	connectors	-
DP-102A-E-P	G1/8", M5	0.2	connectors	-
DP-101-N-P	M5, NPT 1/8	0.1	connectors	-
DP-102-N-P	M5, NPT 1/8	0.2	connectors	-
DP-102A-N-P	M5, NPT 1/8	0.2	connectors	-
DP-111-E-P-J	G1/8", M5	0.1	M8 male	4
DP-111A-E-P-J	G1/8", M5	0.1	M8 male	4
DP-112-E-P-J	G1/8", M5	0.2	M8 male	4
DP-112A-E-P-J	G1/8", M5	0.2	M8 male	4
DP101A	G1/8", M5	0.1	connectors	-

Symbol	Kind of OUT1	Kind of OUT2	Regulation for OUT2
DP-101-E-P	PNP	PNP	ON-OFF, ON-OFF with hysteresis
DP-101A-E-P	PNP	analogue	-
DP-102-E-P	PNP	PNP	ON-OFF, ON-OFF with hysteresis
DP-102A-E-P	PNP	analogue	-
DP-101-N-P	PNP	PNP	ON-OFF, ON-OFF with hysteresis
DP-102-N-P	PNP	PNP	ON-OFF, ON-OFF with hysteresis
DP-102A-N-P	PNP	analogue	-

Symbol	Kind of OUT1	Kind of OUT2	Regulation for OUT2
DP-111-E-P-J	PNP	PNP	ON-OFF, ON-OFF with hysteresis
DP-111A-E-P-J	PNP	analogue	-
DP-112-E-P-J	PNP	PNP	ON-OFF, ON-OFF with hysteresis
DP-112A-E-P-J	PNP	analogue	-
DP101A	NPN	analogue	-

Symbol	Pressure setting range [Pa]	Symbol	Pressure setting range [Pa]
DP-101-E-P	-100k...100k	DP-102A-N-P	-0.1M...1M
DP-101A-E-P	-100k...100k	DP-111-E-P-J	-100k...100k
DP-102-E-P	-0.1M...1M	DP-111A-E-P-J	-100k...100k
DP-102A-E-P	-0.1M...1M	DP-112-E-P-J	-0.1M...1M
DP-101-N-P	-100k...100k	DP-112A-E-P-J	-0.1M...1M
DP-102-N-P	-0.1M...1M	DP101A	-100k...100k

Converter; for DIN rail mounting; ACT20M; WEIDMÜLLER



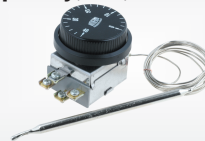
Weidmüller

Mounting : for DIN rail mounting
 Manufacturer : WEIDMÜLLER
 Body dimensions : 114.3x6.1x112.5mm
 Manufacturer series : ACT20M

Symbol	Type of converter	Kind of IN1	Kind of IN2
1175980000	analog signals	0...20mA, 4...20mA	-
1175990000	analog signals	0...20mA, 4...20mA	-
1176040000	signal separator	4...20mA	-
1176050000	signal separator	4...20mA	4...20mA
1176070000	signal separator	0...20mA, 4...20mA	-
1176080000	signal separator	0...20mA, 4...20mA	0...20mA, 4...20mA
1176000000	analog signals	0...10V, 0...20mA, 0...5V, 4...20mA	-
1176010000	analog signals	0...10V, 0...20mA, 0...5V, 4...20mA	-
1176020000	analog signals	0...10V, 0...20mA, 0...5V, 4...20mA	-
1375450000	analog signals	-10mA...0...10mA, -10V...0...10V, -20mA...0...20mA, -5V...0...5V	-
1375470000	analog signals	-10mA...0...10mA, -10V...0...10V, -20mA...0...20mA, -5V...0...5V	-

Symbol	Kind of OUT1	Kind of OUT2	U _{sup} [V DC]
1175980000	0...20mA, 4...20mA	-	24
1175990000	0...20mA, 4...20mA	0...20mA, 4...20mA	24
1176040000	4...20mA	-	-
1176050000	4...20mA	4...20mA	-
1176070000	0...20mA, 4...20mA	-	-
1176080000	0...20mA, 4...20mA	0...20mA, 4...20mA	-
1176000000	0...10V, 0...20mA, 0...5V, 4...20mA	-	24
1176010000	0...10V, 0...20mA, 0...5V, 4...20mA	-	24
1176020000	0...10V, 0...20mA, 0...5V, 4...20mA	0...10V, 0...20mA, 0...5V, 4...20mA	24
1375450000	0...10V, 0...20mA, 0...5V, 4...20mA	-	24
1375470000	0...10V, 0...20mA, 0...5V, 4...20mA	0...10V, 0...20mA, 0...5V, 4...20mA	24

Thermostat with capillary; BT; ARTHERMO



Manufacturer : ARTHERMO
 Type of sensor : thermostat with capillary
 Max. operating current : 10A
 Operating voltage max. : 400V AC
 Manufacturer series : BT

Symbol	Output conf.	Range of temperature control [°C]	Tolerance
BT-KAP35/A	SPDT	-30...35	±3°C
BT-KAP40/A	SPDT	0...40	±3°C
BT-KAP90/A	SPDT	0...90	±4°C

cont. on the next page

Thermostat with capillary; BT; ARThERMO (cont.)

Symbol	Output conf.	Range of temperature control [°C]	Tolerance
BT-KAP90/B	SPDT	0...90	±4°C
BT-KAP120/A	SPDT	30...120	±4°C
BT-KAP220/A	SPDT	0...220	±4°C
BT-KAP300/A	SPDT	50...315	±9°C
Symbol	Features		
BT-KAP35/A	capillary Ø6x120mm, length 1500mm		
BT-KAP40/A	capillary Ø6x120mm, length 1500mm		
BT-KAP90/A	capillary Ø6x100mm, length 1500mm		
BT-KAP90/B	capillary Ø6x100mm, length 1500mm		
BT-KAP120/A	capillary Ø6x95mm, length 1500mm		
BT-KAP220/A	capillary Ø6x62mm, length 1500mm		
BT-KAP300/A	capillary Ø4x90mm, length 1500mm		

Cable: for sensors/automation; 0800; LUTRONIC



Type of cable : for sensors/automation
 Connector : plug
 Wire colour : black
 Max. operating current : 4A
 IP rating : IP67
 Manufacturer : LUTRONIC
 Manufacturer series : 0800
 Operating temperature : -25...80°C
 Polarisation : A code - DeviceNet / CANopen

Symbol	Thread	Kind	Type	No. of pins	Insulation	Cable length [m]
080003300-2M	M8	female	straight	3	PUR	2
080003300-5M	M8	female	straight	3	PUR	5
080004002-2M	M8	female	straight	4	PVC	2
080004002-5M	M8	female	straight	4	PVC	5
080004301-2M	M8	female	straight	4	PUR	2
080004301-5M	M8	female	straight	4	PUR	5
080504002-2M	M8	female	angled	4	PVC	2
080504002-5M	M8	female	angled	4	PVC	5
080503300-5M	M8	female	angled	3	PVC	5
080603L1001-2M	M8	female	angled	3	PVC	2
080603L1001-5M	M8	female	angled	3	PVC	5
080603L1300-2M	M8	female	angled	3	PUR	2
080603L1300-5M	M8	female	angled	3	PUR	5
081004002-2M	M8	male	straight	4	PVC	2
081004002-5M	M8	male	straight	4	PVC	5
081003001-2M	M8	male	straight	3	PVC	2
081003001-5M	M8	male	straight	3	PUR	5
081003300-2M	M8	male	straight	3	PUR	2
081003300-5M	M8	male	straight	3	PUR	5
Symbol	Indication					
080603L1001-2M	LED					
080603L1001-5M	LED					
080603L1300-2M	LED					
080603L1300-5M	LED					

Cable: for sensors/automation; 1200; LUTRONIC

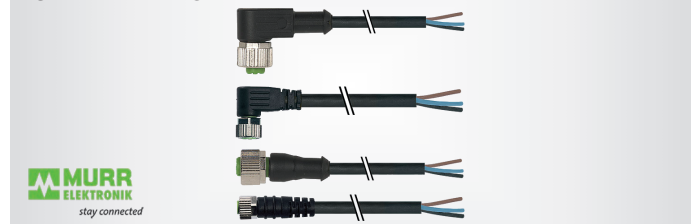


Manufacturer : LUTRONIC
 Type of cable : for sensors/automation
 Manufacturer series : 1200
 Connector : plug
 Wire colour : black
 Operating temperature : -25...80°C
 IP rating : IP67
 Polarisation : A code - DeviceNet / CANopen

Symbol	Thread	Kind	Type	No. of pins	Insulation	Cable length [m]
120004002-2M	M12	female	straight	4	PVC	2
120004002-5M	M12	female	straight	4	PVC	5
120004301-2M	M12	female	straight	4	PUR	2
120004301-5M	M12	female	straight	4	PUR	5
120504002-2M	M12	female	angled	4	PVC	2

Symbol	Thread	Kind	Type	No. of pins	Insulation	Cable length [m]
120504002-5M	M12	female	angled	4	PVC	5
120504301-2M	M12	female	angled	4	PUR	2
120504301-5M	M12	female	angled	4	PUR	5
120505003-2M	M12	female	angled	5	PVC	2
120505003-5M	M12	female	angled	5	PVC	5
120505302-2M	M12	female	angled	5	PUR	2
120505302-5M	M12	female	angled	5	PUR	5
120508004-2M	M12	female	angled	8	PVC	2
120508004-5M	M12	female	angled	8	PVC	5
120508303-2M	M12	female	angled	8	PUR	2
120508303-5M	M12	female	angled	8	PUR	5
121004002-2M	M12	male	straight	4	PVC	2
121004002-5M	M12	male	straight	4	PVC	5
121004301-2M	M12	male	straight	4	PUR	2
121004301-5M	M12	male	straight	4	PUR	5
120512315-5M	M12	female	angled	12	PUR	5
120012315-5M	M12	female	straight	12	PUR	5
120603L1001-2M	M12	female	angled	3	PVC	2
120603L1001-5M	M12	female	angled	3	PVC	5
120603L1300-2M	M12	female	angled	3	PUR	2
120603L1300-5M	M12	female	angled	3	PUR	5
120604L2002-2M	M12	female	angled	4	PVC	2
120604L2002-5M	M12	female	angled	4	PVC	5
120604L2301-2M	M12	female	angled	4	PUR	2
120604L2301-5M	M12	female	angled	4	PUR	5

Cable: for sensors/automation; 7000; MURRELEKTRONIK



Manufacturer : MURRELEKTRONIK
 Connector : plug
 Type of cable : for sensors/automation
 Manufacturer series : 7000
 Polarisation : A code
 Kind of connector : female
 IP rating : IP65, IP66K, IP67

Symbol	Thread	No. of pins	Type	Cable length [m]	Wire insulation material
7000-08041-6100300	M8	3	straight	3	PVC
7000-08041-6100500	M8	3	straight	5	PVC
7000-08041-6300300	M8	3	straight	3	PUR
7000-08041-6300500	M8	3	straight	5	PUR
7000-08061-6110500	M8	4	straight	5	PVC
7000-08061-6310300	M8	4	straight	3	PUR
7000-08081-6100300	M8	3	angled	3	PVC
7000-08081-6100500	M8	3	angled	5	PVC
7000-08081-6300300	M8	3	angled	3	PUR
7000-08081-6300500	M8	3	angled	5	PUR
7000-08101-6110300	M8	4	angled	3	PVC
7000-08101-6110500	M8	4	angled	5	PVC
7000-08101-6310300	M8	4	angled	3	PUR
7000-08101-6310500	M8	4	angled	5	PUR
7000-12181-6130300	M12	3	straight	3	PVC
7000-12181-6130500	M12	3	straight	5	PVC
7000-12221-6140300	M12	4	straight	3	PVC
7000-12221-6140500	M12	4	straight	5	PVC
7000-12221-6340300	M12	4	straight	3	PUR
7000-12221-6340500	M12	4	straight	5	PUR
7000-12241-6150300	M12	5	straight	3	PVC
7000-12241-6150500	M12	5	straight	5	PVC
7000-12241-6350300	M12	5	straight	3	PUR
7000-12241-6350500	M12	5	straight	5	PUR
7000-12321-6130300	M12	3	angled	3	PVC
7000-12321-6130500	M12	3	angled	5	PVC
7000-12321-6330300	M12	3	angled	3	PUR
7000-12321-6330500	M12	3	angled	5	PUR
7000-12341-6140300	M12	4	angled	3	PVC
7000-12341-6140500	M12	4	angled	5	PVC
7000-12341-6340300	M12	4	angled	3	PUR
7000-12361-6150300	M12	5	angled	3	PVC
7000-12361-6150500	M12	5	angled	5	PVC
7000-12361-6350500	M12	5	angled	5	PUR
7000-12421-6340500	M12	4	angled	5	PUR

cont. on the next page

**Cable: for sensors/automation; 7000;
MURRELEKTRONIK (cont.)**

Symbol	Indication
7000-12421-6340500	LED

**Signaller; fluid flow; F61; JOHNSON CONTROLS /
PENN**


Kind of OUT1	: SPDT
Type of module	: signaller
Controlled parameter	: fluid flow
Manufacturer	: JOHNSON CONTROLS / PENN
Enclos. mat.	: polycarbonate
Features	: adjustable actuation threshold
Manufacturer series	: F61

Symbol	Max medium temp. [°C]	Working press. [bar]	IP rating	Body mat.
F61SB-9100	120	max. 20	IP43	brass
F61TB-9100	120	max. 20	IP67	brass
F61TB-9200	100	max. 10	IP67	stainless steel
F61TD-9150	100	max. 10	IP67	brass
F61TB-9104	120	max. 20	IP67	brass

Symbol	Application
F61SB-9100	ethylene glycol, brine, water, sea water
F61TB-9100	ethylene glycol, brine, water, sea water
F61TB-9200	sea water
F61TD-9150	ethylene glycol, water
F61TB-9104	ethylene glycol, water

Reed switch; MK04; MEDER

*Products for
Automation...*


Manufacturer	: MEDER
Type of sensor	: reed switch
Body dimensions	: 23x13.9x5.9mm
Features	: actuator is sold separately
Related items	: MM4
Manufacturer series	: MK04
P _{switch.}	: 10W
Connection	: cables

Symbol	Contacts layout	I _{switch} [A]	U _{switch.} [V]	Lead length [m]
MK04-1A66C-500W	SPST-NO	0.5	max. 200	0.5
MK04-1A66B-1000W	SPST-NO	0.5	max. 200	1
MK04-1A66B-1800W	SPST-NO	0.5	max. 200	1.8
MK04-1C90C-500W	SPDT	0.5	max. 175	0.5

Related articles:

Symbol	Product description
MM4	Magnet;permanent;AlNiCo500;23.2x14x6.1mm;1210mT

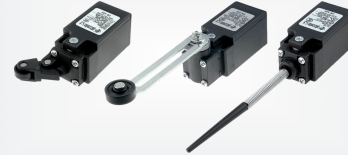
Reed switch; MEDER; Mounting: PCB, THT

*Products for
Automation...*


Manufacturer	: MEDER
Type of sensor	: reed switch
Mounting	: PCB, THT

Symbol	Contacts layout	U _{switch.} [V]	Measuring range
KSK1C90-1520	SPDT	max. 175	15...20AT
KSK1C90-2025	SPDT	max. 175	20...25AT
KSK1C90F-1530	SPDT	max. 175	20...25AT
KSK1A66-1015	SPST-NO	max. 180	10...15AT
KSK1A66-1020	SPST-NO	max. 200	10...20AT
KSK1A66-2030	SPST-NO	max. 200	20...30AT
KSK1A87-1015	SPST-NO	max. 200	10...15AT
KSK1A87-1520	SPST-NO	max. 200	15...20AT
KSK1A87-2025	SPST-NO	max. 200	20...25AT
KSK1A52-2030	SPST-NO	max. 250	20...30AT
KSK-21	SPST-NO	max. 350	15...20AT

Symbol	Contacts layout	U _{switch.} [V]	Measuring range
KSK1A85-2030	SPST-NO	max. 1k	20...30AT
KSK1A76-5060	SPST-NO	max. 300	50...60AT

Limit switch; FR; PIZZATO ELETTRICA


Manufacturer	: PIZZATO ELETTRICA
Type of sensor	: limit switch
Body material	: plastic
Body dimensions	: 51.5x30.8x30.8mm
Output configuration	: NO + NC
Number of mounting holes	: 2
Contact current max.	: 10A
Switched voltage	: max. 250V DC
Switched voltage	: max. 500V AC
AC contacts rating @R*	: 6A / 250V AC
DC contacts rating @R*	: 6A / 24V DC
Operating temperature	: -25...80°C
IP rating	: IP67
Features	: snap action contacts
Mounting holes pitch	: 20...22mm
Manufacturer series	: FR

Symbol	Connection	Kind of actuator
FR501	PG13,5	pin plunger Ø8mm
FR502	PG13,5	angled lever with roller, rotary lever with roller
FR505	PG13,5	angled lever with roller, rotary lever with roller
FR515	PG13,5	polymer roller Ø1mm
FR515-1	PG13,5	steel roller Ø12mm
FR521	PG13,5	spring length 117mm
FR525	PG13,5	spring length 103mm
FR531	PG13,5	rotary lever with roller
FR538	PG13,5	without lever
FR553-E0V9	PG13,5	porcelain roller Ø9x57mm R 80mm
FR551	PG13,5	angled lever with roller, plastic roller Ø20mm
FR555	PG13,5	adjustable lever R 53-112mm, roll Ø20mm
FR555-1	PG13,5	adjustable lever, roller, steel roller Ø20mm
FR555-M2	M20	adjustable lever R 53-112mm, roll Ø20mm
FR556	PG13,5	adjustable lever R 53-112mm, roll Ø20mm
FR576	PG13,5	ring
FR502-A	PG11	angled lever with roller, rotary lever with roller

Limit switch; XCMD; TELEMECANIQUE SENSORS


Manufacturer	: TELEMECANIQUE SENSORS
Type of sensor	: limit switch
Contact current max.	: 6A
Switched voltage	: max. 250V AC
Switched voltage	: max. 250V DC
AC load rating @R*	: 1.5A / 240V AC
DC load rating @R*	: 1.5A / 24V DC
Number of mounting holes	: 2
Mounting holes pitch	: 20mm
Body dimensions	: 30x50x16mm
Operating temperature	: -25...70°C
IP rating	: IP66
Body material	: metal
Manufacturer series	: XCMD
Design	: side exit

Symbol	No. of pins	Kind of actuator
XCMD2101L1	-	without lever
XCMD2102C12	5	metal roller Ø11,6mm
XCMD2102L1	-	metal roller Ø11,6mm
XCMD2102L2	-	metal roller Ø11,6mm
XCMD2102L3	-	metal roller Ø11,6mm
XCMD2102L5	-	metal roller Ø11,6mm
XCMD2102M12	4	metal roller Ø11,6mm
XCMD2110L1	-	pin plunger Ø7mm
XCMD2110L2	-	pin plunger Ø7mm
XCMD2115L1	-	lever R 34,4mm, plastic roller Ø16mm
XCMD2116L1	-	lever R 34,4mm, metallic roller 16mm

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Limit switch; XCMD; TELEMECANIQUE SENSORS (cont.)

Symbol	No. of pins	Kind of actuator		
XCMD2124L1	-	lever R 45mm, metal roller Ø9mm		
XCMD2145C12	5	adjustable lever R 33,5-83,5mm, plastic roller Ø16mm		
XCMD2145L1	-	adjustable lever R 33,5-83,5mm, plastic roller Ø16mm		
XCMD21F0C12	5	pin plunger Ø7mm and additional fixation		
XCMD21F0L1	-	pin plunger Ø7mm and additional fixation		
XCMD21F2C12	5	oblong metal roller Ø10,6mm and additional fixation		
XCMD21F2L1	-	oblong metal roller Ø10,6mm and additional fixation		
XCMD21F2L3	-	oblong metal roller Ø10,6mm and additional fixation		
XCMD2502L1	-	metal roller Ø11,6mm		
Symbol	Output configuration	Connection	Features	Lead length [m]
XCMD2101L1	NO + NC	cables	snap action contacts	1
XCMD2102C12	NO + NC	M12 male	snap action contacts	-
XCMD2102L1	NO + NC	cables	snap action contacts	1
XCMD2102L2	NO + NC	cables	snap action contacts	2
XCMD2102L3	NO + NC	cables	snap action contacts	3
XCMD2102L5	NO + NC	cables	snap action contacts	5
XCMD2102M12	SPDT	M12 male	snap action contacts	-
XCMD2110L1	NO + NC	cables	snap action contacts	1
XCMD2110L2	NO + NC	cables	snap action contacts	2
XCMD2115L1	NO + NC	cables	snap action contacts	1
XCMD2116L1	NO + NC	cables	snap action contacts	1
XCMD2124L1	NO + NC	cables	snap action contacts	1
XCMD2145C12	NO + NC	M12 male	snap action contacts	-
XCMD2145L1	NO + NC	cables	snap action contacts	1
XCMD21F0C12	NO + NC	M12 male	snap action contacts	-
XCMD21F0L1	NO + NC	cables	snap action contacts	1
XCMD21F2C12	NO + NC	M12 male	snap action contacts	-
XCMD21F2L1	NO + NC	cables	snap action contacts	1
XCMD21F2L3	NO + NC	cables	snap action contacts	3
XCMD2502L1	NO + NC	cables	slow action contacts	1

Limit switch; XCKN



Type of sensor	: limit switch
Body material	: plastic
Body dimensions	: 31x65x30mm
Contact current max.	: 10A
Switched voltage	: max. 240V AC
Switched voltage	: max. 250V DC
AC load rating @R*	: 3A / 240V AC
DC load rating @R*	: 3A / 24V DC
Operating temperature	: -25...70°C
IP rating	: IP65
Number of mounting holes	: 2
Mounting holes pitch	: 20...22mm
Manufacturer series	: XCKN
* at resistive load	

Manufacturer	: TELEMECANIQUE SENSORS
Features	: snap action contacts
Output configuration	: NO + NC

Symbol	Head	Connection
XCKN2106G11	plunger on spring loaded element, total length 142mm	PG11
XCKN2108G11	spring length 128mm	PG11
XCKN2110G11	pin plunger Ø8mm	PG11
XCKN2118P20	lever R 35,5mm, plastic roller Ø19mm	M20 x 1,5
XCKN2127G11	lever R 22mm, plastic roller Ø14mm	PG11
XCKN2145P20	adjustable lever R 35,5-84,5mm, plastic roller Ø19mm	M20 x 1,5
XCKN2102G11	oblong plastic roller Ø11mm	PG11
XCKN2103G11	transversal plastic roller Ø11mm	PG11
XCKN2118G11	lever R 35,5mm, plastic roller Ø19mm	PG11
XCKN2121G11	lever R 20,2mm, plastic roller Ø14mm	PG11
XCKN2127P20	lever R 22mm, plastic roller Ø14mm	M20 x 1,5
XCKN2145G11	adjustable lever R 35,5-84,5mm, plastic roller Ø19mm	PG11
XCKN2149G11	adjustable lever R 60-100mm, plastic roller Ø50mm	PG11

Optical fiber amplifier; FX-300; PANASONIC

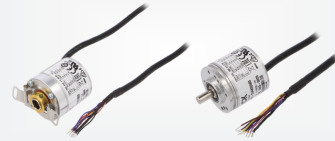


Manufacturer	: PANASONIC
U _{sup}	: 12...24V DC
Max. operating current	: 100mA
Connection	: connectors
Operation modes	: DARK-ON, LIGHT-ON
Response time	: <250µs

Body material	: plastic
Body dimensions	: 30.5x10x64.5mm
IP rating	: IP40
Operating temperature	: -10...55°C
Works with	: CN-73-C1, CN-73-C2, CN-73-C5
Type of sensor	: optical fiber amplifier
Manufacturer series	: FX-300

Symbol	Output conf.	Features	Display parameters	Additional functions	Indication
FX301	NPN	LED display timer	LED 4 digit	Teach-in	-
FX311	NPN	timer	-	-	LED
FX311P	PNP	timer	-	-	LED

Encoder: incremental; DBS36E; SICK



Manufacturer	: SICK
Type of encoder	: incremental
Switching frequency max	: 300kHz
Connection	: cables
Operating temperature	: -20...85°C
IP rating	: IP65
Manufacturer series	: DBS36E
Lead length	: 1.5m

Symbol	Output conf.	Resolution [imp/revol.]	U _{sup} [V DC]	Features
DBS36E-S3AK00360	RS422	360	4.5...5.5	shaft 6mm
DBS36E-S3AK00500	RS422	500	4.5...5.5	shaft 6mm
DBS36E-S3AK01000	RS422	1000	4.5...5.5	shaft 6mm
DBS36E-S3AK01024	RS422	1024	4.5...5.5	shaft 6mm
DBS36E-S3AK02000	RS422	2000	4.5...5.5	shaft 6mm
DBS36E-S3AK02048	RS422	2048	4.5...5.5	shaft 6mm
DBS36E-S3AK02500	RS422	2500	4.5...5.5	shaft 6mm
DBS36E-S3EK00100	push/pull	100	7...30	shaft 6mm
DBS36E-S3EK00200	push/pull	200	7...30	shaft 6mm
DBS36E-S3EK00360	push/pull	360	7...30	shaft 6mm
DBS36E-S3EK00500	push/pull	500	7...30	shaft 6mm
DBS36E-S3EK00600	push/pull	600	7...30	shaft 6mm
DBS36E-S3EK01000	push/pull	1000	7...30	shaft 6mm
DBS36E-S3EK01024	push/pull	1024	7...30	shaft 6mm
DBS36E-S3EK02000	push/pull	2000	7...30	shaft 6mm
DBS36E-BBAK02048	RS422	2048	4.5...5.5	blind hollow shaft Ø8mm
DBS36E-BBEK00100	push/pull	100	7...30	blind hollow shaft Ø8mm
DBS36E-BBEK00500	push/pull	500	7...30	blind hollow shaft Ø8mm
DBS36E-BBEK01000	push/pull	1000	7...30	blind hollow shaft Ø8mm

Control

Timer; H3CR-A; OMRON



Manufacturer	: OMRON
Type of module	: timer
Mounting hole	: 45x45mm
Electrical connection	: round socket
Body dimensions	: 48x48x81.6mm
Operating temperature	: -10...55°C
IP rating	: IP40
Manufacturer series	: H3CR-A

Symbol	U _{sup} [V AC]	U _{sup} [V DC]	Output	Range	Number of pins
H3CR-A8/24AC/DC	24...48	12...48	DPDT	0,05s...300h	8
H3CR-A8/100-240	100...240	100...125	DPDT	0,05s...300h	8
H3CR-A8-301-24	24...48	12...48	DPDT	0,1s...600h	8
H3CR-A8-301-230	100...240	100...125	DPDT	0,1s...600h	8
H3CR-A8E24-48	24...48	24...48	SPDT	0,05s...300h	8
H3CR-A8E100-240	100...240	100...125	SPDT	0,05s...300h	8
H3CR-A24AC/DC	24...48	12...48	DPDT	0,05s...300h	11
H3CR-A100-240AC	100...240	100...125	DPDT	0,05s...300h	11
H3CR-A-301-230	100...240	100...125	DPDT	0,1s...600h	11
H3CR-A-301-24	24...48	12...48	DPDT	0,1s...600h	11
H3CR-A8S-24	24...48	12...48	transistor	0,05s...300h	8
H3CR-AP-24	24...48	12...48	DPDT	0,05s...300h	11

cont. on the next page

Timer; H3CR-A; OMRON (cont.)

Symbol	U _{sup} [V AC]	U _{sup} [V DC]	Output	Range	Number of pins
H3CR-AS-24	24...48	12...48	transistor	0,05s...300h	11
Symbol	Mounting	Number of operation modes			
H3CR-A8/24AC/DC	on panel, for DIN rail mounting, socket	4			
H3CR-A8/100-240	on panel, for DIN rail mounting, socket	4			
H3CR-A8-301-24	on panel, for DIN rail mounting, socket	4			
H3CR-A8-301-230	on panel, for DIN rail mounting, socket	4			
H3CR-A8E24-48	on panel, for DIN rail mounting, socket	4			
H3CR-A8E100-240	on panel, for DIN rail mounting, socket	4			
H3CR-A24AC/DC	on panel, socket	6			
H3CR-A100-240AC	on panel, for DIN rail mounting, socket	6			
H3CR-A-301-230	on panel, socket	6			
H3CR-A-301-24	on panel, socket	6			
H3CR-A8S-24	on panel, socket	4			
H3CR-AP-24	on panel, socket	6			
H3CR-AS-24	on panel, socket	6			

Related articles:

Symbol	Product description
P2CF-08	Relays accessories:socket;PIN:8;for DIN rail mounting;6A
P3G-08	Relays accessories:socket;PIN:8;on panel;6A;250VAC;octal
Y92F-30	Coupling fixing
Y92F-74	Adapter for panel mounting

Timer; MI2R; FAUCIGNY INSTRUMENTS



Manufacturer	: FAUCIGNY INSTRUMENTS
Type of module	: timer
Mounting	: screw type
Output	: DPDT
Number of operation modes	: 1
Operation modes	: delayed switching off
Electrical connection	: 6,35x0,8mm terminals
No. of pins	: 6
Operating temperature	: -30...125°C
Manufacturer series	: MI2R
Symbol	Range
MI2R20612H	max 12h
MI2R20615M	max 15min
MI2R2062H	max 2h
MI2R20630M	max 30min
MI2R2064H	max 4h
MI2R20660M	max 60min
MI2R2066H	max 6h

Related articles:

Symbol	Product description
RG	Knob for mechanical timer
RS	Knob for mechanical timer
RV	Knob for mechanical timer
S12H	Scale for mechanical timer;Range of val:0÷12h
S2H	Scale for mechanical timer;Range of val:0÷120min
S30M	Scale for mechanical timer;Range of val:0÷30min
S4H	Scale for mechanical timer;Range of val:0÷4h
S60M	Scale for mechanical timer;Range of val:0÷60min
S6H	Scale for mechanical timer;Range of val:0÷6h

Timer; for DIN rail mounting; 80; FINDER



Manufacturer	: FINDER				
Mounting	: for DIN rail mounting				
IP rating	: IP20				
Type of module	: timer				
Indication	: LED				
Manufacturer series	: 80				
Symbol	U _{sup} [V DC]	U _{sup} [V AC]	Output	Range	No. of pins
80.01.0.240.000	12...240	12...240	SPDT	0,1s...24h	6
80.11.0.240.000	24...240	24...240	SPDT	0,1s...24h	5
80.21.0.240.000	24...240	24...240	SPDT	0,1s...24h	5
80.41.0.240.000	24...240	24...240	SPDT	0,1s...24h	6
80.51.0.240.000	24...240	24...240	SPDT	0,1s...24h	6
80.61.0.240.000	24...240	24...240	SPDT	0,05s...180s	5
80.71.0.240.000	24...240	24...240	SPDT	0,1s...24h	5

Symbol	U _{sup} [V DC]	U _{sup} [V AC]	Output	Range	No. of pins
80.82.0.240.000	24...240	24...240	DPST - NO	0,1s...20min	5
80.91.0.240.000	12...240	12...240	SPDT	0,1s...24h	6
Symbol	Electrical connection	Number of operation modes	The additional control inputs		
80.01.0.240.000	screw terminals	6	START		
80.11.0.240.000	screw terminals	1	-		
80.21.0.240.000	screw terminals	1	-		
80.41.0.240.000	screw terminals	1	-		
80.51.0.240.000	screw terminals	6	START		
80.61.0.240.000	screw terminals	1	-		
80.71.0.240.000	screw terminals	6	START		
80.82.0.240.000	screw terminals	1	-		
80.91.0.240.000	screw terminals	2	START		

Timer; for DIN rail mounting; 83; FINDER



Manufacturer	: FINDER
Type of module	: timer
Mounting	: for DIN rail mounting
Electrical connection	: screw terminals
Operating temperature	: -20...60°C
IP rating	: IP20
Indication	: LED
Manufacturer series	: 83
Supply voltage	: 24...240V AC
Supply voltage	: 24...240V DC
Range	: 0,05s...10days

Symbol	Output	No. of pins	Number of operation modes	The additional control inputs
83.01.0.240.0000	SPDT	6	8	START
83.02.0.240.0000	DPDT	11	8	START
83.11.0.240.0000	SPDT	5	1	-
83.21.0.240.0000	SPDT	5	1	-
83.41.0.240.0000	SPDT	6	1	START
83.52.0.240.0000	DPDT	11	8	PAUSE, START
83.62.0.240.0000	DPDT	8	1	-
83.82.0.240.0000	DPST - NO	5	1	-
83.91.0.240.0000	SPDT	8	4	START

Symbol : 83.02.0.240.0000, 83.91.0.240.0000

Features : possibility to use a remote potentiometer to set the time

Timer; Zelio Time; SCHNEIDER ELECTRIC



Manufacturer	: SCHNEIDER ELECTRIC
Type of module	: timer
Mounting	: for DIN rail mounting
Operating temperature	: -20...60°C
IP rating	: IP20
Manufacturer series	: Zelio Time

Symbol	Range	Output	U _{sup} [V DC]	U _{sup} [V AC]	Number of operation modes	Electrical connection
RE22R1ACMR	0,05s...300h	SPDT	24...240	24...240	2	screw terminals
RE22R1KMR	0,05s...10min	SPDT	24...240	24...240	1	screw terminals
RE22R1MKMR	0,05s...300s	SPDT	24...240	24...240	2	screw terminals
RE22R1MYMR	0,05s...300h	SPDT	24...240	24...240	18	screw terminals
RE22R1QCMU	0,05s...300s	SPDT	24	24...240	1	screw terminals
RE22R1QMU	0,05s...100h	SPDT	24	24...240	1	screw terminals
RE22R2ACMR	0,05s...300h	DPDT	24...240	24...240	2	screw terminals
RE22R2AMR	0,05s...300h	DPDT	24...240	24...240	2	screw terminals
RE22R2AMU	0,05s...100h	DPDT	24	24...240	2	screw terminals
RE22R2HMR	0,05s...300h	DPDT	24...240	24...240	2	screw terminals
RE22R2KMR	0,05s...10min	DPDT	24...240	24...240	1	screw terminals
RE22R2MJU	0,05s...100h	DPDT	12	12	10	spring-loaded terminals
RE22R2MMU	0,05s...100h	DPDT	24	24...240	10	spring-loaded terminals
RE22R2MWMR	0,05s...300h	DPDT	24...240	24...240	2	screw terminals
RE22R2MXMU	0,05s...100h	DPDT	24	24...240	9	spring-loaded terminals
RE22R2MYMR	0,05s...300h	DPDT	24...240	24...240	20	screw terminals
RE22R2QEMR	0,3...30s	DPDT	24...240	24...240	1	screw terminals
RE22R2QEMT	0,3...30s	DPDT	-	380...415	1	screw terminals
RE22R2QGMR	0,05s...300h	DPDT	24...240	24...240	1	screw terminals

Module; for DIN rail mounting; SIEMENS



Manufacturer : SIEMENS
 Mounting : for DIN rail mounting
 Manufacturer series : LOGO! 8

Symbol	Type of module	Inputs	Outputs	Analog. out.	Analog in.
6ED1052-1MD08-0BA2	programmable relay	8	4	0	4
6ED1052-1CC08-0BA2	programmable relay	8	4	0	4
6ED1052-1FB08-0BA2	programmable relay	8	4	0	0
6ED1052-1HB08-0BA2	programmable relay	8	4	0	0
6ED1052-2MD08-0BA2	programmable relay	8	4	0	4
6ED1052-2CC08-0BA2	programmable relay	8	4	0	4
6ED1052-2HB08-0BA2	programmable relay	8	4	0	0
6ED1052-2FB08-0BA2	programmable relay	8	4	0	0
6ED1055-1MB00-0BA2	extension	4	4	0	0
6ED1055-1CB00-0BA2	extension	4	4	0	0
6ED1055-1HB00-0BA2	extension	4	4	0	0
6ED1055-1FB00-0BA2	extension	4	4	0	0
6ED1055-1CB10-0BA2	extension	8	8	0	0
6ED1055-1NB10-0BA2	extension	8	8	0	0
6ED1055-1FB10-0BA2	extension	8	8	0	0
6ED1055-1MA00-0BA2	extension	-	-	0	2
6ED1055-1MD00-0BA2	extension	-	-	0	2
6ED1055-1MM00-0BA2	extension	-	-	2	0

Symbol	U _{sup} [V DC]	U _{sup} [V AC]	Kind of inputs	Kind of outputs
6ED1052-1MD08-0BA2	12...24	-	digital	relay
6ED1052-1CC08-0BA2	24	-	digital	transistor
6ED1052-1FB08-0BA2	115...240	115...240	digital	relay
6ED1052-1HB08-0BA2	24	24	digital	relay
6ED1052-2MD08-0BA2	12...24	-	digital	relay
6ED1052-2CC08-0BA2	24	-	digital	transistor
6ED1052-2HB08-0BA2	24	24	digital	relay
6ED1052-2FB08-0BA2	115...240	115...240	digital	relay
6ED1055-1MB00-0BA2	12...24	-	digital	relay
6ED1055-1CB00-0BA2	24	-	digital	transistor
6ED1055-1HB00-0BA2	24	24	digital	relay
6ED1055-1FB00-0BA2	115...240	115...240	digital	relay
6ED1055-1CB10-0BA2	24	-	digital	transistor
6ED1055-1NB10-0BA2	24	24	digital	relay
6ED1055-1FB10-0BA2	115...240	115...240	digital	relay
6ED1055-1MA00-0BA2	12...24	-	0...10V, 0/4...20mA	-
6ED1055-1MD00-0BA2	12...24	-	Pt100, Pt1000	-
6ED1055-1MM00-0BA2	24	-	-	0...10V, 0/4...20mA

The programming method:

- PC (6ED1052-xxx08-0BA2)
- built-in keypad (6ED1052-1xx08-0BA2)

Trade name (6ED1052-xxx08-0BA2):

- logic module
- programmable logic controller
- logic controller
- programmable controller

Programmable relay; Compact; SCHNEIDER ELECTRIC



Manufacturer : SCHNEIDER ELECTRIC
 Type of module : programmable relay
 Version : Compact
 Mounting : for DIN rail mounting
 Operating temperature : -20...55°C
 IP rating : IP20
 Manufacturer series : Zelio Logic
 Trade name : logic module, programmable logic controller, compact controller, logic controller, programmable controller

Symbol	U _{sup}	Number of inputs	Kind of inputs	Analog in.	Out. puts	Kind of outputs
SR2A101BD	24 V DC	6	digital	0	4	relay
SR2A101FU	100...240 V AC	6	digital	0	4	relay
SR2A201BD	24 V DC	12	digital	2	8	relay
SR2A201E	48 V AC	12	digital	0	8	relay
SR2A201FU	100...240 V AC	12	digital	0	8	relay
SR2B121B	24 V AC	8	digital	0	4	relay
SR2B121BD	24 V DC	8	digital	4	4	relay
SR2B121FU	100...240 V AC	8	digital	0	4	relay
SR2B121JD	12 V DC	8	digital	4	4	relay
SR2B122BD	24 V DC	8	digital	4	4	transistor
SR2B201B	24 V AC	12	digital	0	8	relay

Symbol	U _{sup}	Number of inputs	Kind of inputs	Analog in.	Out. puts	Kind of outputs
SR2B201FU	100...240 V AC	12	digital	0	8	relay
SR2B201JD	12 V DC	12	digital	6	8	relay
SR2B202BD	24 V DC	12	digital	6	8	transistor
SR2D101FU	100...240 V AC	6	digital	0	4	relay
SR2D201BD	24 V DC	12	digital	2	8	relay
SR2D201FU	100...240 V AC	12	digital	0	8	relay
SR2E121B	24 V AC	8	digital	0	4	relay
SR2E121BD	24 V DC	8	digital	4	4	relay
SR2E121FU	100...240 V AC	8	digital	0	4	relay
SR2E201B	24 V AC	12	digital	0	8	relay
SR2E201BD	24 V DC	12	digital	6	8	relay
SR2E201FU	100...240 V AC	12	digital	0	8	relay

Current monitoring relay; K8AK-AS; OMRON



Type of module : current monitoring relay
 Mounting : for DIN rail mounting
 Leads : screw terminals
 Power supply : external
 Kind of output 1 : SPDT
 IP rating : IP20

Manufacturer : OMRON
 Contact actuation delay : 0.1...30s
 Body dimensions : 22.5x90x100mm
 Operating temperature : -20...60°C
 Manufacturer series : K8AK-AS

Symbol : Controlled parameter

K8AK-AS2-24 : AC current, DC current

K8AK-AS2-230 : AC current, DC current

Symbol : U_{sup} [V AC] U_{sup} [V DC] Controlled parameter range [A]

K8AK-AS2-24 : 24 24 100m...1, 500m...5, 800m...8

K8AK-AS2-230 : 100...240 - 100m...1, 500m...5, 800m...8

Voltage monitoring relay; Zelio Control; SCHNEIDER ELECTRIC



Manufacturer : SCHNEIDER ELECTRIC
 Type of module : voltage monitoring relay
 Mounting : for DIN rail mounting
 Leads : screw terminals

Manufacturer series : Zelio Control

Symbol	Controlled parameter	Contact actuation delay [s]
RM17TA00	phase asymmetry, voltage in three-phase electric power system, phase failure	0.1...10
RM17TG00	voltage in three-phase electric power system, phase failure	-
RM17TU00	voltage in three-phase electric power system, phase failure	0.1...10
RM17UAS14	voltage in single-phase electric power system	0.1...10
RM17UAS15	voltage in single-phase electric power system	0.1...10
RM17UB310	voltage in three-phase electric power system, phase failure	0.3...30
RM17UBE15	voltage in single-phase electric power system	0.1...10
RM17UBE16	voltage in single-phase electric power system	0.1...10
RM22TA31	phase asymmetry, voltage in three-phase electric power system, phase failure	0.1...30
RM22TA33	phase asymmetry, voltage in three-phase electric power system, phase failure	0.1...30
RM22TG20	voltage in three-phase electric power system, phase failure	-
RM22TR31	voltage in three-phase electric power system, phase failure	0.1...30
RM22TU21	voltage in three-phase electric power system, phase failure	-
RM22UA21MR	voltage in single-phase electric power system	-
RM22UA22MR	voltage in single-phase electric power system	-
RM22UA23MR	voltage in single-phase electric power system	-
RM22UA33MR	voltage in single-phase electric power system	0.1...30
RM22UB34	voltage in single-phase electric power system	0.1...30
RM35TF30	phase asymmetry, voltage in three-phase electric power system, phase failure	0.1...10
RM35UA11MW	voltage in single-phase electric power system	0.3...30
RM35UA12MW	voltage in single-phase electric power system	0.3...30

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Voltage monitoring relay; Zelio Control; SCHNEIDER ELECTRIC (cont.)

Symbol	Controlled parameter		Contact actuation delay [s]	Kind of outputs
RM35UB330	voltage in three-phase electric power system, phase failure		0.3...30	
Symbol	U_{sup} [V AC]	U_{sup} [V DC]	Range of val. cntrl	Kind of outputs
RM17TA00	-	-	208...480V AC	relay NO / NC
RM17TG00	-	-	208...480V AC	relay NO / NC
RM17TU00	-	-	208...480V AC	relay NO / NC
RM17UAS14	-	-	9...15V DC	relay NO / NC
RM17UAS15	-	-	65...260V AC, 65...260V DC	relay NO / NC
RM17UB310	-	-	220...480V AC	relay NO / NC
RM17UBE15	-	-	65...260V	relay NO / NC
RM17UBE16	-	-	20...80V	relay NO / NC
RM22TA31	-	-	200...240V AC	relay NO / NC x2
RM22TA33	-	-	380...480V AC	relay NO / NC x2
RM22TG20	-	-	183...528V AC	relay NO / NC x2
RM22TR31	-	-	200...240V AC	relay NO / NC x2
RM22TU21	-	-	200...240V AC	relay NO / NC x2
RM22UA21MR	24...240	24...240	0.05...5V	relay NO / NC x2
RM22UA22MR	24...240	24...240	1...100V	relay NO / NC x2
RM22UA23MR	24...240	24...240	15...500V	relay NO / NC x2
RM22UA33MR	24...240	24...240	15...500V	relay NO / NC x2
RM22UB34	110...240	110...240	80...300V	relay NO / NC x2
RM35TF30	-	-	220...480V AC	relay NO / NC x2
RM35UA11MW	24...240	24...240	0.05...5V	relay NO / NC x2
RM35UA12MW	24...240	24...240	1...100V	relay NO / NC x2
RM35UB330	-	-	220...480V AC	relay NO / NC x2

Counter: electromechanical; working time; KÜBLER



Manufacturer	: KÜBLER
Type of counter	: electromechanical
Type of counted signal	: working time
Mounting	: on panel
Mounting hole	: 45x45mm
Electrical connection	: screw terminals
Display	: mechanical indicator
Display height 1	: 4mm
Body dimensions	: 48x48x35mm
Resetting method	: none
Operating temperature	: -15...50°C
IP rating	: IP52

Symbol	Range	U_{sup}
H57-12VDC	99999,99h	10...30 V DC
H57-230VAC	99999,99h	190...253 V AC
H57-230VAC/60HZ	99999,99h	190...253 V AC
H57-100-130VAC	99999,99h	100...130 V AC

Counter: electronic; time/pulses; CT; AUTONICS



Manufacturer	: AUTONICS
Type of counter	: electronic
Type of counted signal	: time/pulses
Mounting	: on panel
Resetting method	: electrical, locking possibility, manual
Kind of counter	: progressive/reversing
Number of operation modes	: 15
Operation modes	: pulse after a specified time, delayed switching off, delayed switching on, ON and OFF delay
Electrical connection	: screw terminals
Operating temperature	: -10...55°C
The additional control inputs	: RESET
Kind of IN1	: NPN, PNP
Kind of IN2	: NPN, PNP
Max IN1 count. freq.	: 10kHz
IN2 max count. freq.	: 10kHz
Display	: LED x2
Power supply	: external
Manufacturer series	: CT

Symbol	Kind of OUT1	Kind of OUT2	U_{sup} [V AC]	U_{sup} [V DC]
CT4S-1P2	SPDT	-	24	24...48
CT6S-1P2	SPDT	-	24	24...48
CT6S-1P4	SPDT	-	100...240	-
CT6S-2P2	SPST	SPST	24	24...48
CT6S-2P4	SPST	SPST	100...240	-
CT6M-1P2	SPDT	-	24	24...48
Symbol	Range	Body dim. [mm]	Cutout [mm]	
CT4S-1P2	0,001s...9999h	48x48x100	45x45	
CT6S-1P2	0,001s...99999,9h / 999999	48x48x100	45x45	
CT6S-1P4	0,001s...99999,9h / 999999	48x48x100	45x45	
CT6S-2P2	0,001s...99999,9h / 999999	48x48x100	45x45	
CT6S-2P4	0,001s...99999,9h / 999999	48x48x100	45x45	
CT6M-1P2	0,001s...99999,9h / 999999	72x72x95	68x68	

Counter: electronic; pulses; H7EC; OMRON



Manufacturer	: OMRON
Type of counter	: electronic
Type of counted signal	: pulses
Range	: 99999999
Mounting	: on panel
Mounting hole	: 45x22.2mm
Electrical connection	: screw terminals
Display height 1	: 8.6mm
Body dimensions	: 48x24x48.5mm
Resetting method	: electrical, locking possibility, manual
Power supply	: battery CR2477 3V x1
Operating temperature	: -10...55°C
IP rating	: IP66
Battery/ rechargeable battery	: battery CR2477 3V x1
Manufacturer series	: H7EC
Display	: LCD

Symbol	Body col.	Kind of IN1	Electr. IN1 param.
H7EC-N	grey	contact	-
H7EC-N-B	black	contact	-
H7EC-NV	grey	voltage, NPN, PNP	4...30V DC
H7EC-NV-B	black	voltage, NPN, PNP	4...30V DC
H7EC-NV-H	grey	voltage, NPN, PNP	4...30V DC
H7EC-NV-BH	black	voltage, NPN, PNP	4...30V DC
H7EC-NFV	grey	voltage	24...240V AC/DC
H7EC-NFV-B	black	voltage	24...240V AC/DC
Symbol	Max IN1 count.	freq. [Hz]	illumination
H7EC-N	1000	-	-
H7EC-N-B	1000	-	-
H7EC-NV	1000	-	-
H7EC-NV-B	1000	-	-
H7EC-NV-H	1000	yes	-
H7EC-NV-BH	1000	yes	-
H7EC-NFV	20	-	-
H7EC-NFV-B	20	-	-

Counter: electronic; pulses; CODIX; KÜBLER

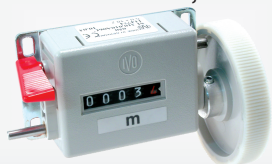


Manufacturer	: KÜBLER
Type of counter	: electronic
Type of counted signal	: pulses
Mounting	: on panel
Mounting hole	: 22.2x45mm
Electrical connection	: screw terminals
Display	: LCD
Display height 1	: 8mm
Body dimensions	: 48x24x48mm
Resetting method	: electrical, locking possibility, manual
Operating temperature	: -10...60°C
IP rating	: IP65
Additional functions	: delivered with bezels
Battery/ rechargeable battery	: battery CR2477N 3V x1
Manufacturer series	: CODIX

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Counter: **electrical; pulses; CODIX; KÜBLER (cont.)**

Symbol	Range	Power supply	
CODIX-LI-1	99999999	battery CR2477N 3V x1	
CODIX-LI-2	99999999	battery CR2477N 3V x1	
CODIX-LI-3	99999999	battery CR2477N 3V x1	
Symbol	Kind of IN1	Electr. IN1 param.	$f_{IN1\ count\ max}$ [Hz]
CODIX-LI-1	contact	0...0,7V DC	7k
CODIX-LI-2	voltage	4...30V DC	12k
CODIX-LI-3	voltage, optoisolated	10...260V AC/DC	30
Symbol	Kind of IN2	Electr. IN2 param.	$f_{count\ IN2\ max}$ [Hz]
CODIX-LI-1	contact	0...0,7V DC	30
CODIX-LI-2	voltage	0...0,7V DC	30
CODIX-LI-3	voltage, optoisolated	10...260V AC/DC	30
Symbol	IN1 properties		
CODIX-LI-3	optical isolation, min. pulse length 16ms		

Mechanical revolutions counters, **M310 series**

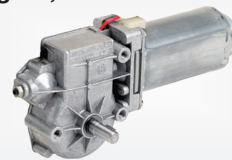
Manufacturer	: Baumer IVO
Type of counter	: mechanical
Operating temperature	: -10...60°C
Mounting	: screw type
Body dimensions	: 69x48x26mm
Base dimensions	: 80x48mm
Enclosure material	: plastic
Shaft diameter	: 4mm
Max. speed	: 200m/min
Resetting method	: manual
Counting range	: 9999,9m
Type of counted signal	: meters
Kind of display used	: mechanical indicator
Display height 1	: 4.5mm
Symbol	Direction of rotation
SX-M310/A	clockwise
SX-M310/B	counterclockwise

Motor: **AC; 3-phase; BESEL**

Manufacturer	: BESEL
Type of motor	: AC
Electrical connection	: screw terminals
Features	: continuous operation S1
Colour	: RAL 5010
Operating temperature	: -30...60°C
IP rating	: IP54
Supply voltage	: 230/400V AC

Symbol	Insulation class	Power [kW]	Nom. rotat. speed [rpm]	Number of poles	Mounting	Shaft axis lift
3SIEK80X-4C2	F	1.1	1410	4	flange	80
3SIEK80X-2C2	F	1.5	2880	2	flange	80
3SIEK80-4B2	F	0.75	1430	4	flange	80
3SIEK80-2B2	F	1.1	2890	2	flange	80
3SIEK80-2A2	F	0.75	2890	2	flange	80
3SIEK71X-2C2	F	0.75	2780	2	flange	71
2SIEK80-4A2	F	0.55	1400	4	flange	80
2SIEK71-4B2	F	0.37	1400	4	flange	71
2SIEK71-4B1	F	0.37	1400	4	flange	71
2SIEK71-4A2	F	0.25	1390	4	flange	-
2SIEK71-2B2	F	0.55	2820	2	flange	-
2SIEK71-2A2	F	0.37	2840	2	flange	-
2SIEK63X-4C2	F	0.25	1380	4	flange	63
2SIEK63X-2C2	F	0.37	2820	2	flange	63
2SIEK63-4B2	F	0.18	1380	4	flange	63
2SIEK63-2B2	F	0.25	2780	2	flange	63
2SIE80-4A	F	0.55	1400	4	arms	80
2SIE71-4B	F	0.37	1400	4	arms	71
2SIE71-4A	F	0.25	1390	4	arms	71
2SIE71-2B	F	0.55	2820	2	arms	71
2SIE71-2A	F	0.37	2840	2	arms	71

Symbol	Insulation class	Power [kW]	Nom. rotat. speed [rpm]	Number of poles	Mounting	Shaft axis lift
2SIE56-2B	F	0.12	2800	2	arms	56

Motor: **DC; worm gear; DOGA**

DOGA

Manufacturer : DOGA

Type of motor : DC

Features : worm gear

Symbol	Nom. torque [Nm]	Trans.	Nom. rot. speed meas. after gear [rpm]	U_{sup} [V DC]	Current consumption [A]	IP rating
316.2761.20.00E	2	62:1	38	12	3.4	IP40
316.2761.30.00E	2	62:1	38	24	1.7	IP40
316.9751.20.00	2	62:1	38	12	3.4	IP10
317.2761.30.00	4	62:1	25	24	1.1	IP40
319.4862.30.00	9	81:1	30	24	3	IP40
111.3763.30.00	6	62:1	25	24	2	IP53
111.9031.20.00	3	62:1	70	12	6	IP53
111.9041.30.00	5	62:1	40	24	2.5	IP53
258.3710.20.00	15	52:1	25	12	10	IP53
258.3710.30.00	15	52:1	25	24	5	IP53
258.3712.20.00	12	52:1	40	12	12	IP53
258.3712.30.00	12	52:1	40	24	6	IP53
319.3860.20.00	9	81:1	30	12	7	IP65
319.3860.30.00	9	81:1	30	24	3	IP65
319.3862.20.00	8	81:1	45	12	6	IP65
319.3862.30.00	9	81:1	45	24	3	IP65
319.4860.20.00	9	81:1	30	12	7	IP40
319.4862.20.00	8	81:1	45	12	6	IP40
359.9299.20.00	15	50:1	40	12	18	IP66
359.9299.30.00	15	50:1	40	24	9	IP66
111.3761.20.00E	5	62:1	40	12	5	IP53
111.3761.30.00E	5	62:1	40	24	2.5	IP53

Module: **softstart; for DIN rail mounting; PSR; ABB**

ABB



Type of module	: softstart
Mounting	: for DIN rail mounting
Electrical connection	: screw terminals
Additional functions	: starting current limiter
Manufacturer	: ABB
Starting/stopping time	: 1...20/0...20s
Operating temperature	: -25...60°C
Manufacturer series	: PSR

Symbol	Max motor power [kW]	Rated contin. current [A]	U_{cntrl}	U_{sup} [V AC]
PSR3-600-70	1.5	3.9	100...240V AC	208...600
PSR6-600-70	3	6.8	100...240V AC	208...600
PSR9-600-70	4	9	100...240V AC	208...600
PSR12-600-70	5.5	12	100...240V AC	208...600
PSR16-600-70	7.5	16	100...240V AC	208...600
PSR25-600-70	11	25	100...240V AC	208...600
PSR30-600-70	15	30	100...240V AC	208...600
PSR37-600-70	18.5	37	100...240V AC	208...600
PSR45-600-70	22	45	100...240V AC	208...600
PSR60-600-70	30	60	100...240V AC	208...600
PSR72-600-70	37	72	100...240V AC	208...600
PSR85-600-70	45	85	100...240V AC	208...600
PSR105-600-70	55	105	100...240V AC	208...600
PSR3-600-11	1.5	3.9	24V AC, 24V DC	208...600
PSR6-600-11	3	6.8	24V AC, 24V DC	208...600
PSR9-600-11	4	9	24V AC, 24V DC	208...600
PSR12-600-11	5.5	12	24V AC, 24V DC	208...600
PSR16-600-11	7.5	16	24V AC, 24V DC	208...600
PSR25-600-11	11	25	24V AC, 24V DC	208...600
PSR30-600-11	15	30	24V AC, 24V DC	208...600
PSR37-600-11	18.5	37	24V AC, 24V DC	208...600
PSR45-600-11	22	45	24V AC, 24V DC	208...600

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Module: softstart; for DIN rail mounting; PSR; ABB (cont.)

Symbol	Max motor power [kW]	Rated contin. current [A]	U _{cntrl}	U _{sup} [V AC]
PSR60-600-11	30	60	24V AC, 24V DC	208...600
PSR72-600-11	37	72	24V AC, 24V DC	208...600
PSR85-600-11	45	85	24V AC, 24V DC	208...600
PSR105-600-11	55	105	24V AC, 24V DC	208...600

Module: stepper motor controller; DIP-SWITCH; JAWO




Manufacturer : JAWO
 Type of module : stepper motor controller
 Kind of IN1 : 0...5V
 The programming method : DIP-SWITCH
 Operating temperature : max. 50°C

Symbol	U _{sup} [V]	I _{max} [A]	Dimensions [mm]
DMD560-SV	20...60	5.5	120x75x20
DMD860-SV	24...60	8.8	120x75x20
DMD88100-SV	24...100	8.8	120x95x28

Logger; on panel; AR207; APAR




Manufacturer : APAR
 Type of module : logger
 Mounting : on panel
 The programming method : keypad, PC, USB
 Communication with PC : RJ45 Ethernet, RS485, USB
 Display : colour, LCD TFT 3,5"
 Display resolution : 320x240
 Illumination : yes
 Kind of output 1 : SPST-NO
 Kind of output 2 : SPST-NO
 Kind of output 3 : SPST-NO
 Kind of output 4 : SPST-NO
 Body dimensions : 96x96x79mm
 Mounting hole : 92x89mm
 Operating temperature : 0...50°C
 Additional functions : Modbus RTU;
 4GB of data memory;
 transducers power supply 24V DC

Kit contents : manual;
 ARSoft-WZ1 software for data logger configuration;
 ARSoft-WZ3 software for data logger configuration;
 ARSoft-WZ4 software for data logger configuration;
 USB cable 2m;
 recorder;
 drivers

Manufacturer series : AR207
 Software : included

Symbol	Number of inputs	Kind of IN1	U _{sup} [V DC]	U _{sup} [V AC]
AR207/8/S1PPPP30	8	universal	-	85...260
AR207/8/S2PPPP30	8	universal	22...72	20...50
AR207/8/S2PPPP65	8	universal	22...72	20...50
AR207/8/S1PPPP65	8	universal	-	85...260
AR207/16A/S1PPPP30	16	0...20mA, 4...20mA	-	85...260
AR207/16U/S1PPPP30	16	0...10V DC	-	85...260
AR207/16A/S1PPPP65	16	0...20mA, 4...20mA	-	85...260
AR207/16U/S1PPPP65	16	0...10V DC	-	85...260
Symbol	Driver features	IP rating		
AR207/8/S1PPPP30	front and rear panel USB	IP30		
AR207/8/S2PPPP30	front and rear panel USB	IP30		
AR207/8/S2PPPP65	rear panel USB	IP65 (from the front)		
AR207/8/S1PPPP65	rear panel USB	IP65 (from the front)		
AR207/16A/S1PPPP30	front and rear panel USB	IP30		
AR207/16U/S1PPPP30	front and rear panel USB	IP30		
AR207/16A/S1PPPP65	rear panel USB	IP65 (from the front)		
AR207/16U/S1PPPP65	rear panel USB	IP65 (from the front)		

Temp. sensor (AR207/8/Sxxx): Ni100, Pt100, Pt1000, Pt500, thermocouple B, thermocouple E, thermo-

couple J, thermocouple K, thermocouple N, thermocouple R, thermocouple S, thermocouple T.

Module: regulator; on panel; LUMEL




Manufacturer : LUMEL
 Type of module : regulator
 Controlled parameter : temperature
 Mounting : on panel
 Supply voltage : 85...270V AC
 Supply voltage : 85...270V DC
 Kind of output 2 : SPST-NO
 Display : LED
 Regulation for output 1 : AUTOTUNING, ON-OFF, PID
 Operating temperature : 0...50°C
 The programming method : rubber keypad
 ? parameters : 4 digit

Symbol	Kind of input 1	Kind of output 1	Kind of output 3	Mounting hole [mm]	Body dimensions [mm]
RE11	RTD, thermocouple	SPST-NO, SSR	-	46x46	52x52x80
RE12S	analogue, RTD, thermocouple	SPST-NO	SPST-NO	46x46	52x52x80

Symbol	RE11	RE12S
Kind of temperature sensor		
- Pt100	x	x
- thermocouple B		x
- thermocouple C		x
- thermocouple E		x
- thermocouple J	x	x
- thermocouple K		x
- thermocouple L		x
- thermocouple N		x
- thermocouple R	x	x
- thermocouple S	x	x
- thermocouple T	x	x
- thermocouple U		x
- thermocouple W		x

Module: regulator; temperature; E5CB; OMRON




Manufacturer : OMRON
 Type of module : regulator
 Controlled parameter : temperature
 The programming method : foil keypad
 Regulation for output 1 : 2PID, ON-OFF
 Kind of output 2 : SPST-NO
 Display : LED x2
 Display parameters : 4 digit
 Display height 1 : 16mm
 Display 2 height : 10mm
 Mounting : on panel
 Mounting hole : 45x45mm
 Body dimensions : 48x48x60mm
 Operating temperature : -10...55°C
 IP rating : IP66 (from the front)
 Additional functions : LED status indicator;
 output 1 - operational output;
 output 2 - operational output;

Controlled parameter range : -1999...9999

Manufacturer series : E5CB

Symbol	Kind of OUT1	IN1 properties	U _{sup} [V DC]	U _{sup} [V AC]
E5CB-R1TC	SPST-NO	thermocouple	-	100...240
E5CB-R1P	SPST-NO	RTD	-	100...240
E5CB-Q1TC	SSR	thermocouple	-	100...240
E5CB-Q1P	SSR	RTD	-	100...240
E5CB-R1TCD	SPST-NO	thermocouple	24	24
E5CB-R1PD	SPST-NO	RTD	24	24
E5CB-Q1TCD	SSR	thermocouple	24	24
E5CB-Q1PD	SSR	RTD	24	24

Related articles:

Symbol	Product description
E53-COV19	Terminals cover;for back plate

Module: vector inverter; IP20; Optidrive E3; INVERTEK DRIVES



Mounting : for DIN rail mounting, for wall mounting
 Electrical connection : screw terminals
 The programming method : keypad, PC
 IP rating : IP20
 Manufacturer : INVERTEK DRIVES
 Type of module : vector inverter
 Manufacturer series : Optidrive E3
 Number of inputs : 4
 Number of outputs : 2
 Number of analog outputs : 1
 Number of analog inputs : 1
 Input 1 properties : rotational speed setting with signal 0...10V, 4...20mA, 0...20mA
 Starting/stopping time : 0.1...600s
 Output frequency : 0...500Hz
 Operating temperature : -10...50°C

Symbol	Max motor power [kW]	U _{sup} [V AC]	Out. voltage [V AC]	I _{nom} [A]
ODE31200431F1201	0.37	200...240	1 x 230	4.3
ODE31200701F1201	0.75	200...240	1 x 230	7
ODE32201051F4201	1.1	200...240	1 x 230	10.5
ODE-3-120023-1F12	0.37	200...240	3 x 230	2.3
ODE-3-120043-1F12	0.75	200...240	3 x 230	4.3
ODE-3-120070-1F12	1.5	200...240	3 x 230	7
ODE-3-220070-1F42	1.5	200...240	3 x 230	7
ODE-3-220105-1F42	2.2	200...240	3 x 230	10.5
ODE-3-220070-3F42	1.5	-	3 x 230	7
ODE-3-220105-3F42	2.2	-	3 x 230	10.5
ODE-3-320180-3F42	4	-	3 x 230	18
ODE-3-320240-3F42	5.5	-	3 x 230	24
ODE-3-420300-3F42	7.5	-	3 x 230	30
ODE-3-420460-3F42	11	-	3 x 230	46
ODE-3-140022-3F12	0.75	-	3 x 400	2.2
ODE-3-140041-3F12	1.5	-	3 x 400	4.1
ODE-3-240041-3F42	1.5	-	3 x 400	4.1
ODE-3-240058-3F42	2.2	-	3 x 400	5.8
ODE-3-240095-3F42	4	-	3 x 400	9.5
ODE-3-340140-3F42	5.5	-	3 x 400	14
ODE-3-340180-3F42	7.5	-	3 x 400	18
ODE-3-340240-3F42	11	-	3 x 400	24
ODE-3-440300-3F42	15	-	3 x 400	30
ODE-3-440390-3F42	18.5	-	3 x 400	39
ODE-3-440460-3F42	22	-	3 x 400	46
ODE-3-140012-3F12	0.37	-	3 x 400	1.2
ODE-3-520610-3F42	15	-	3 x 230	61
ODE-3-520720-3F42	18.5	-	3 x 230	72
ODE-3-540610-3F42	30	-	3 x 400	61
ODE-3-540720-3F42	37	-	3 x 400	72

Features:

- integrated EMC filter
- integrated brake transistor (ODE32201051F4201, ODE-3-xxxF42)

Voltage between phases (for three phase system):

- 3 x 200...240V AC (ODE-3-220070-3F42, ODE-3-220105-3F42, ODE-3-320180-3F42, ODE-3-320240-3F42, ODE-3-420300-3F42, ODE-3-420460-3F42, ODE-3-520610-3F42, ODE-3-520720-3F42)
- 3 x 380...480V AC (ODE-3-1400xx-3F12, ODE-3-2400xx-3F42, ODE-3-340xx0-3F42, ODE-3-440xx0-3F42, ODE-3-540610-3F42, ODE-3-540720-3F42)

Module: vector inverter; ATV320 Compact; SCHNEIDER ELECTRIC



Manufacturer : SCHNEIDER ELECTRIC
 Type of module : vector inverter
 Mounting : for wall mounting
 Number of inputs : 9
 Number of analog outputs : 1
 Input 1 properties : rotational speed setting with signal 0...10V, 4...20mA, 0...20mA
 Output frequency : 0.1...599Hz
 The programming method : keypad, PC
 Electrical connection : screw terminals
 Trade name : Altivar

Manufacturer series : ATV320 Compact
 Number of outputs : 4
 Number of analog inputs : 3

IP rating : IP20

Features : integrated EMC filter

Symbol	Max motor power [kW]	U _{sup} [V AC]	Out. voltage [V AC]	I _{nom} [A]	U _{sup} [V AC]
ATV320U04M2C	0.37	200...240	3 x 230	3.3	-
ATV320U04M3C	0.37	-	3 x 230	3.3	3 x 200...240
ATV320U04N4C	0.37	-	3 x 400	1.5	3 x 380...500
ATV320U06M2C	0.55	200...240	3 x 230	3.7	-
ATV320U06M3C	0.55	-	3 x 230	3.7	3 x 200...240
ATV320U06N4C	0.55	-	3 x 400	1.9	3 x 380...500
ATV320U07M2C	0.75	200...240	3 x 230	4.8	-
ATV320U07M3C	0.75	-	3 x 230	4.8	3 x 200...240
ATV320U07N4C	0.75	-	3 x 400	2.3	3 x 380...500
ATV320U11M2C	1.1	200...240	3 x 230	6.9	-
ATV320U11M3C	1.1	-	3 x 230	6.9	3 x 200...240
ATV320U11N4C	1.1	-	3 x 400	3	3 x 380...500
ATV320U15M2C	1.5	200...240	3 x 230	8	-
ATV320U15M3C	1.5	-	3 x 230	8	3 x 200...240
ATV320U15N4C	1.5	-	3 x 400	4.1	3 x 380...500
ATV320U22M2C	2.2	200...240	3 x 230	11	-
ATV320U22M3C	2.2	-	3 x 230	11	3 x 200...240
ATV320U22N4C	2.2	-	3 x 400	5.5	3 x 380...500
ATV320U30M3C	3	-	3 x 230	13.7	3 x 200...240
ATV320U30N4C	3	-	3 x 400	7.1	3 x 380...500
ATV320U40M3C	4	-	3 x 230	17.5	3 x 200...240
ATV320U40N4C	4	-	3 x 400	9.5	3 x 380...500
ATV320U55M3C	5.5	-	3 x 230	27.5	3 x 200...240
ATV320U75M3C	7.5	-	3 x 230	33	3 x 200...240
ATV320D11M3C	11	-	3 x 230	54	3 x 200...240

Module: vector inverter; for DIN rail mounting; G100; LS ELECTRIC



Manufacturer : LS ELECTRIC
 Type of module : vector inverter
 Mounting : for DIN rail mounting, for wall mounting
 The programming method : keypad
 Output frequency : 0...400Hz
 Electrical connection : screw terminals
 Input 1 properties : rotational speed setting with signal 0...10V, 4...20mA
 Protection : anti-overload OPP, overheating OTP
 Operating temperature : -10...50°C
 Manufacturer series : G100
 Number of inputs : 5
 Number of analog inputs : 1
 Number of analog outputs : 1
 Voltage output : 0...12V DC

Symbol	Out. voltage [V AC]	U _{sup} [V AC]	Max motor power [kW]
LV0004G100-4EOFN	3 x 400	3 x 380...480	0.4
LV0008G100-4EOFN	3 x 400	3 x 380...480	0.75
LV0015G100-4EOFN	3 x 400	3 x 380...480	1.5
LV0022G100-4EOFN	3 x 400	3 x 380...480	2.2
LV0040G100-4EOFN	3 x 400	3 x 380...480	4
LV0055G100-4EOFN	3 x 400	3 x 380...480	5.5
LV0075G100-4EOFN	3 x 400	3 x 380...480	7.5
LV0004G100-2EONN	3 x 230	3 x 200...230	0.4
LV0110G100-4EOFN	3 x 230	3 x 200...230	11
LV0150G100-4EOFN	3 x 230	3 x 200...230	15
LV0185G100-4EOFN	3 x 230	3 x 200...230	18.5
LV0220G100-4EOFN	3 x 230	3 x 200...230	22

PLC programmable controller; S7-1200; SIEMENS



Type of module : PLC programmable controller
 Manufacturer : SIEMENS
 Manufacturer series : S7-1200
 The programming method : PC
 Operating temperature : -20...60°C

cont. on the next page

PLC programmable controller; S7-1200; SIEMENS (cont.)

IP rating	: IP20					
Symbol	In-puts	Kind of inputs	Out-puts	Kind of outputs	Analog in.	Analog out.
6ES7211-1AE40-0XB0	6	digital	4	transistor	2	-
6ES7211-1BE40-0XB0	6	digital	4	relay	2	-
6ES7211-1HE40-0XB0	6	digital	4	relay	2	-
6ES7212-1AE40-0XB0	8	digital	6	transistor	2	-
6ES7212-1AF40-0XB0	8	digital	6	transistor	2	-
6ES7212-1BE40-0XB0	8	digital	6	relay	2	-
6ES7212-1HE40-0XB0	8	digital	6	relay	2	-
6ES7212-1HF40-0XB0	8	digital	6	relay	2	-
6ES7214-1AF40-0XB0	14	digital	10	transistor	2	-
6ES7214-1AG40-0XB0	14	digital	10	transistor	2	-
6ES7214-1BG40-0XB0	14	digital	10	relay	2	-
6ES7214-1HF40-0XB0	14	digital	10	relay	2	-
6ES7214-1HG40-0XB0	14	digital	10	relay	2	-
6ES7215-1AF40-0XB0	14	digital	10	transistor	2	2
6ES7215-1AG40-0XB0	14	digital	10	transistor	2	2
6ES7215-1BG40-0XB0	14	digital	10	relay	2	2
6ES7215-1HF40-0XB0	14	digital	10	relay	2	2
6ES7215-1HG40-0XB0	14	digital	10	relay	2	2
6ES7217-1AG40-0XB0	14	digital	10	transistor	2	2
Symbol	U _{sup}	Additional functions		Body dim. [mm]		
6ES7211-1AE40-0XB0	24 V DC	50kB program memory		90x100x75		
6ES7211-1BE40-0XB0	85...264 V AC	50kB program memory		90x100x75		
6ES7211-1HE40-0XB0	24 V DC	50kB program memory		90x100x75		
6ES7212-1AE40-0XB0	24 V DC	75kB program memory		90x100x75		
6ES7212-1AF40-0XB0	24 V DC	100kB program memory		90x100x75		
6ES7212-1BE40-0XB0	85...264 V AC	75kB program memory		90x100x75		
6ES7212-1HE40-0XB0	24 V DC	75kB program memory		90x100x75		
6ES7212-1HF40-0XB0	24 V DC	100kB program memory		90x100x75		
6ES7214-1AF40-0XB0	24 V DC	125kB program memory		110x100x75		
6ES7214-1AG40-0XB0	24 V DC	100kB program memory		110x100x75		
6ES7214-1BG40-0XB0	85...264 V AC	100kB program memory		110x100x75		
6ES7214-1HF40-0XB0	24 V DC	125kB program memory		110x100x75		
6ES7214-1HG40-0XB0	24 V DC	100kB program memory		110x100x75		
6ES7215-1AF40-0XB0	24 V DC	150kB program memory		130x100x75		
6ES7215-1AG40-0XB0	24 V DC	125kB program memory		130x100x75		
6ES7215-1BG40-0XB0	85...264 V AC	125kB program memory		130x100x75		
6ES7215-1HF40-0XB0	24 V DC	150kB program memory		130x100x75		
6ES7215-1HG40-0XB0	24 V DC	125kB program memory		130x100x75		
6ES7217-1AG40-0XB0	24 V DC	150kB program memory		150x100x75		

Module: extension; S7-1200; SIEMENS



Manufacturer : SIEMENS
 Type of module : extension
 Manufacturer series : S7-1200
 Operating temperature : -20...60°C
 IP rating : IP20

Symbol	In-puts	Kind of inputs	Out-puts	Kind of outputs	Sup. volt. [V DC]
6ES7221-1BF32-0XB0	8	digital	-	-	24
6ES7221-1BH32-0XB0	16	digital	-	-	24
6ES7221-3AD30-0XB0	4	digital	-	-	5
6ES7221-3BD30-0XB0	4	digital	-	-	5
6ES7222-1AD30-0XB0	-	-	4	transistor	5
6ES7222-1BF32-0XB0	-	-	8	transistor	24
6ES7222-1BH32-0XB0	-	-	16	transistor	24
6ES7222-1HH32-0XB0	-	-	16	relay	24
6ES7222-1XF32-0XB0	-	-	8	relay	24
6ES7223-0BD30-0XB0	2	digital	2	transistor	24
6ES7223-1BH32-0XB0	8	digital	8	transistor	24
6ES7223-1BL32-0XB0	16	digital	16	transistor	24
6ES7223-1PH32-0XB0	8	digital	8	relay	24
6ES7223-1PL32-0XB0	16	digital	16	relay	24
6ES7223-3AD30-0XB0	2	digital	2	transistor	5
6ES7223-3BD30-0XB0	2	digital	2	transistor	5
6ES7231-4HA30-0XB0	1	analogue	-	-	24
6ES7231-4HF32-0XB0	8	analogue	-	-	24
6ES7231-5PD32-0XB0	4	RTD	-	-	24
6ES7231-5PF32-0XB0	8	RTD	-	-	24
6ES7231-5QA30-0XB0	1	thermocouple	-	-	24
6ES7231-5QF32-0XB0	8	thermocouple	-	-	24
6ES7232-4HD32-0XB0	-	-	4	analogue	24
6ES7234-4HE32-0XB0	4	analogue	2	analogue	24

Signaller: lighting-sound; KLL; AUER SIGNAL



Manufacturer : AUER SIGNAL
 Type of signaller : lighting-sound
 Cover material : polycarbonate
 Body material : ABS
 Operating temperature : -20...50°C
 IP rating : IP43
 Additional functions : siren and beacon may be switched on independently
 Manufacturer series : KLL
 Signalling method : horn, continuous light, blinking light
 Light source : bulb BA15D
 Caution! : Bulb has to be ordered separately
 Body dimensions : Ø75x213mm

Symbol	Colour	U _{sup}
710111005	orange	24 V DC
710111113	orange	230...240 V AC
710112005	red	24 V DC
710112113	red	230...240 V AC
710117005	yellow	24 V DC
710117113	yellow	230...240 V AC

Related articles:

Symbol	Product description
LAMP-BA15D/24	Filament lamp: bayonet; BA15D; 24V DC; Bulb: spherical; 5W; Ø: 15mm

Industrial sounders, Sonos series



klaxon

Manufacturer : KLAXON SIGNALS

Symbol	Signaller	Signalling method	U _{sup} [V DC]	Supply voltage [V AC]	Colour
PSB-0063	lighting	flashing light	10...60	-	red
PSC-0027	lighting-sound	siren, blinking light	17...60	-	red
PSC-0029	lighting-sound	siren, blinking light	17...60	-	white
PSC-0042	lighting-sound	siren, blinking light	17...60	-	red
PSC-0049	lighting-sound	siren, blinking light	17...60	-	red
PSC-0059	lighting-sound	siren, blinking light	17...60	-	white
PSS-0003	sound	siren	9...60	-	red
PSS-0020	sound	siren	9...60	-	red
PSS-0039	sound	siren	9...60	-	white
PSS-0050	sound	siren	9...60	-	white
PSS-0060	sound	siren	-	110/230	red
PSS-0094	lighting-sound	siren, blinking light	-	110/230	red
PSS-0096	lighting-sound	siren, blinking light	-	110/230	red
Symbol	lens color	Light source	IP rating	Body dim. [mm]	Sound level
PSB-0063	blue	xenon arc lamp	IP65	Ø97.5x104	-
PSC-0027	amber	LED	IP65	Ø97.5x104	106dB
PSC-0029	red	LED	IP65	Ø97.5x104	106dB
PSC-0042	red	LED	IP65	Ø97.5x104	106dB
PSC-0049	amber	LED	IP65	Ø97.5x104	106dB
PSC-0059	transparent	LED	IP65	Ø97.5x104	106dB
PSS-0003	-	-	IP21	Ø100x80	106dB
PSS-0020	-	-	IP65	Ø97.5x104	106dB
PSS-0039	-	-	IP21	Ø100x80	106dB
PSS-0050	-	-	IP65	Ø97.5x104	106dB
PSS-0060	-	-	IP65	Ø97.5x104	102dB
PSS-0094	red	LED	IP65	Ø97.5x104	102dB
PSS-0096	amber	LED	IP65	Ø97.5x104	102dB
Symbol	Manufacturer series	Body material	Number of tones		
PSB-0063	Sonos	polycarbonate	-		
PSC-0027	Sonos	polycarbonate	32		
PSC-0029	Sonos	polycarbonate	32		
PSC-0042	Sonos	polycarbonate	32		
PSC-0049	Sonos	polycarbonate	32		
PSC-0059	Sonos	polycarbonate	32		
PSS-0003	Sonos	polycarbonate	32		
PSS-0020	Sonos	polycarbonate	32		
PSS-0039	Sonos	polycarbonate	32		
PSS-0050	Sonos	polycarbonate	32		
PSS-0060	Sonos	polycarbonate	32		
PSS-0094	Sonos	polycarbonate	32		
PSS-0096	Sonos	polycarbonate	32		

KLAXON SIGNALS



klaxon

Manufacturer : KLAXON SIGNALS
 Cover material : polycarbonate
 Colour : red
 Body material : ABS
 IP rating : IP66

Symbol	Indication	Light source	Sound level	lens color	U _{sup} [V DC]
PNC-0024	siren, flashing light, continuous light	LED	105dB	red	10...60
PNC-0028	siren, flashing light, continuous light	LED	105dB	amber	10...60
PNC-0045	siren, flashing light, continuous light	LED	105dB	transparent	10...60
PNC-0047	siren, flashing light, continuous light	LED	105dB	blue	10...60
PNC-0046	siren, flashing light, continuous light	LED	105dB	green	10...60

Symbol	Signaller	No. of tones	Temp. [°C]	Series	Body dim. [mm]
PNC-0024	lighting-sound	64	-25...70	Nexus 105	136.2x173x124.5
PNC-0028	lighting-sound	64	-25...70	Nexus 105	136.2x173x124.5
PNC-0045	lighting-sound	64	-25...70	Nexus 105	136.2x173x124.5
PNC-0047	lighting-sound	64	-25...70	Nexus 105	136.2x173x124.5
PNC-0046	lighting-sound	64	-25...70	Nexus 105	136.2x173x124.5

Signalling column; LD6A; IDEC



IDEC

Manufacturer : IDEC
 Type of signaller : signalling column
 Manufacturer series : LD6A
 U_{sup} : 24V AC
 Colour : red/yellow/green
 Body col. : dark grey
 U_{sup} : 24V DC
 Light source : LED
 Body material : ABS
 Operating temperature : -25...55°C

Symbol	Signalling method	IP rating
LD6A-3DQB-RYG	continuous light	IP65
LD6A-3DZQB-RYG	buzzer, flashing light, continuous light	IP54
LD6A-3PZQB-RYG	buzzer, flashing light, continuous light	IP54
LD6A-3WQB-RYG	continuous light	IP65
LD6A-3WZQB-RYG	buzzer, flashing light, continuous light	IP54

Switch Ethernet; EKI; ADVANTECH



ADVANTECH

Manufacturer : ADVANTECH
 Enclosure material : metal
 Manufacturer series : EKI
 Industrial module : switch Ethernet

Symbol	Kind of module	U _{sup} [V DC]	Number of ports	Kind
EKI-2525-AE	unmanaged	12...48	5	RJ45
EKI-2525I-AE	unmanaged	12...48	5	RJ45
EKI-2528-AE	unmanaged	12...48	8	RJ45
EKI-2528I-BE	unmanaged	12...48	8	RJ45
EKI-2725-CE	unmanaged	12...48	5	RJ45
EKI-2728-CE	unmanaged	12...48	8	RJ45

Symbol	Data transmission [Mbps]	Operating temp. [°C]	IP rating
EKI-2525-AE	10, 100	-10...60	IP30
EKI-2525I-AE	10, 100	-40...75	IP30
EKI-2528-AE	10, 100	-10...60	IP30
EKI-2528I-BE	10, 100	-40...75	IP30
EKI-2725-CE	10, 100	-10...60	IP30
EKI-2728-CE	10, 100, 1000	-10...60	IP30

Unmanaged; for DIN rail mounting; SW; BRAINBOXES

brainboxes

www.brainboxes.com



Mounting : for DIN rail mounting

Kind of module : unmanaged
 Manufacturer : BRAINBOXES

IP rating : IP20

Symbol	Industrial module	Number of ports	Data transmission [Mbps]	U _{sup} [V DC]	Kind of connector
SW-504	switch Ethernet	4	10, 100	5...30	RJ45
SW-505	switch Ethernet	5	10, 100	5...30	RJ45
SW-508	switch Ethernet	8	10, 100	5...30	RJ45
SW-514	switch Ethernet	4	10, 100, 1000	5...30	RJ45
SW-515	switch Ethernet	5	10, 100, 1000	5...30	RJ45
SW-518	switch Ethernet	8	10, 100, 1000	5...30	RJ45
SW-581	switch Ethernet	2	10, 100, 1000	5...30	RJ45
SW-584	switch Ethernet	5	10, 100, 1000	5...30	RJ45
SW-705	switch Ethernet	5	10, 100	5...30	RJ45
SW-708	switch Ethernet	8	10, 100	5...30	RJ45
SW-715	switch Ethernet	5	10, 100, 1000	5...30	RJ45
SW-718	switch Ethernet	8	10, 100, 1000	5...30	RJ45
SW-725	switch Ethernet	5	10, 100	44...57	RJ45
SW-525	switch Ethernet	5	10, 100	44...57	RJ45
SW-535	switch PoE Ethernet	4	10, 100, 1000	44...57	RJ45
SW-595	switch PoE Ethernet	4	10, 100, 1000	44...57	RJ45; SFP
SW-735	switch PoE Ethernet	4	10, 100, 1000	44...57	RJ45
SW-7016	switch Ethernet	16	10, 100	5...30	RJ45
SW-7416	switch Ethernet	16	10, 100, 1000	5...30	RJ45
SW-7617	switch Ethernet	16	10, 100	5...30	RJ45; SFP
SW-7717	switch Ethernet	16	10, 100, 1000	5...30	RJ45; SFP

Symbol	Enclos. mat.	Operating temp. [°C]	Power supply
SW-504	plastic	-40...80	-
SW-505	plastic	-40...80	-
SW-508	plastic	-40...80	-
SW-514	plastic	-40...80	-
SW-515	plastic	-40...80	-
SW-518	plastic	-40...80	-
SW-581	plastic	-40...80	-
SW-584	plastic	-40...80	-
SW-705	metal	-40...80	-
SW-708	metal	-40...80	-
SW-715	metal	-40...80	-
SW-718	metal	-40...80	-
SW-725	metal	-40...70	PoE
SW-525	plastic	-40...70	PoE
SW-535	plastic	-40...70	-
SW-595	plastic	-40...70	-
SW-735	metal	-40...70	-
SW-7016	metal	-40...80	-
SW-7416	metal	-40...80	-
SW-7617	metal	-40...80	-
SW-7717	metal	-40...80	-

Related articles:

Symbol	Product description
PW-600	Power supply;switching;mains;plug-in;5VDC;1A;5W;110x60x70mm
PW-650	Adapter;Input:USB A plug;Out:5pin connector;1.8m

Modbus gateway; ED; BRAINBOXES

brainboxes

www.brainboxes.com



Manufacturer : BRAINBOXES
 Industrial module : Modbus gateway
 Mounting : for DIN rail mounting
 Enclosure material : plastic
 U_{sup} : 5...30V DC
 Operating temp. : -30...80°C
 IP rating : IP20
 Kind of connector : NuDAM/ADAM x1;
 RJ45 x1

Symbol	Inputs	Kind of IN1	Outputs	Kind of OUT1
ED-516	16	counter, NPN, PNP	-	-
ED-527	-	-	16	OC
ED-538	8	counter, NPN, PNP	4	SPST-NO
ED-582	1	RTD	-	-
ED-588	8	counter, NPN, PNP	8	OC

cont. on the next page

Modbus gateway; ED; BRAINBOXES (cont.)

Symbol	Interface	Width [mm]	Ht. [mm]	Dp. [mm]
ED-516	Ethernet	22.6	102	128
ED-527	Ethernet	22.6	102	128
ED-538	Ethernet	22.6	102	128
ED-582	Ethernet	23	102	129
ED-588	Ethernet	22.6	102	128

Serial device server; ADAM-4000; ADVANTECH**ADVANTECH**

Manufacturer : ADVANTECH
 Industrial module : serial device server
 Manufacturer series : ADAM-4000
 Mounting : on panel, for DIN rail mounting
 Enclosure material : ABS
 U_{sup} : 10...30V DC
 Body dim. : 70x112x26mm
 Operating temperature : -10...60°C
 Kind of connector : RJ45 x1

Symbol	Number of ports	Interface
ADAM-4570	3	Ethernet; RS232/RS422/RS485 x2
ADAM-4570L	3	Ethernet; RS232 x2
ADAM-4571	2	Ethernet; RS232/RS422/RS485 x1
ADAM-4571L	2	Ethernet; RS232 x1

Manufacturer series : Classic
 Connector : NW7,2 connector pipe, NW7,2 quick connector

Symbol	Cable ext. dia. [mm]	Tube in. diam. [mm]	Coil. cable leng. after stretch. [m]	Operating pressure [bar]
8X5-5-KPL	8	5	5	10
8X5-10-KPL	8	5	10	12
8X5-15-KPL	8	5	15	12
12X8-5-KPL	12	8	5	8
12X8-10-KPL	12	8	10	8
12X8-15-KPL	12	8	15	10

Air preparation set; Flowmatik; PNEUMAT**Pneumat.**

Manufacturer : PNEUMAT
 Pneumatic module : air preparation set
 Kind of thread : inside

Symbol	Thread	Flow [l/min]	Pres- sure [bar]	Working press. [bar]	Operating temp. [°C]	Filtration accur. [µm]
DC201A-02	G 1/4"	1700	1.5...12	max. 16	-10...60	20
DC201A-02-AUT	G 1/4"	1700	1.5...12	max. 16	-10...60	20
DC201A-03	G 3/8"	1700	1.5...12	max. 16	-10...60	20
DC201A-03-AUT	G 3/8"	1700	1.5...12	max. 16	-10...60	20
DC401A-04	G 1/2"	3500	1.5...12	max. 16	-10...60	20
DC401A-04-AUT	G 1/2"	3500	1.5...12	max. 16	-10...60	20
DC401A-06	G 3/4"	3500	1.5...12	max. 16	-10...60	20
DC601A-06	G 3/4"	11500	1.5...12	max. 16	-10...60	20
DC601A-06-AUT	G 3/4"	11500	1.5...12	max. 16	-10...60	20
DC601A-08	G 1"	11500	1.5...12	max. 16	-10...60	20
DC601A-08-AUT	G 1"	11500	1.5...12	max. 16	-10...60	20
FMB12	G 1/2"	2300	1.5...9	max. 10	-5...60	5
FMB-12-AUT	G 1/2"	2300	1.5...9	max. 10	-5...60	5
FMB14	G 1/4"	1100	1.5...9	max. 10	-5...60	5
FMB14-MIDI	G 1/4"	2300	1.5...9	max. 10	-5...60	5
FMB-14-MIDI-AUT	G 1/4"	2300	1.5...9	max. 10	-5...60	5
FMB18	G 1/8"	1100	1.5...9	max. 10	-5...60	5
FMB38	G 3/8"	2300	1.5...9	max. 10	-5...60	5

Symbol	Features
DC201A-02	semi-automatic condensate emptying; manual condensate emptying
DC201A-02-AUT	automatic condensate emptying
DC201A-03	semi-automatic condensate emptying; manual condensate emptying
DC201A-03-AUT	automatic condensate emptying
DC401A-04	semi-automatic condensate emptying; manual condensate emptying
DC401A-04-AUT	automatic condensate emptying
DC401A-06	semi-automatic condensate emptying; manual condensate emptying
DC601A-06	semi-automatic condensate emptying; manual condensate emptying
DC601A-06-AUT	automatic condensate emptying
DC601A-08	semi-automatic condensate emptying; manual condensate emptying
DC601A-08-AUT	automatic condensate emptying
FMB-12-AUT	automatic condensate emptying
FMB-14-MIDI-AUT	automatic condensate emptying

Electromagnetic valve; AIGNEP

Manufacturer : AIGNEP
 Pneumatic module : electromagnetic valve
 Plunger diameter : 9mm
 Operating temperature : -10...60°C

Symbol	Thread	Valve function	Operating pressure [bar]
01VS03NC02	G 1/8"	3/2 NC	2...10
01VS03NC03	G 1/4"	3/2 NC	2...10
01VS03NC05	G 1/2"	3/2 NC	2...10
01VS050002	G 1/8"	5/2 monostable	2...10
01VS050003	G 1/4"	5/2 monostable	2...10
01VS050005	G 1/2"	5/2 monostable	2...10

Pneumatics**Pneumat.**

Manufacturer : PNEUMAT
 Pneumatic accessories : pneumatic tubing
 Application : compressed air, water
 Material : PVC
 Operating temperature : -30...70°C
 Colour : blue, transparent

Symbol	Operating pressure [bar]	Tube in. diam. [mm]	Length [m]
190/2-25	21	6	25
190/2-50	21	6	50
190/3-25	19	8	25
190/3-50	19	8	50
190/4-25	15	9	25
190/4-50	15	9	50
190/5-25	17	10	25
190/5-50	17	10	50
190/6-25	18	12.5	25
190/6-50	18	12.5	50
190/7-25	12	16	25
190/7-50	12	16	50
190/8-25	13	19	25
190/8-50	13	19	50
190/9-25	6	25	25
190/9-50	6	25	50
190/10-25	5	32	25
190/11-25	4	38	25

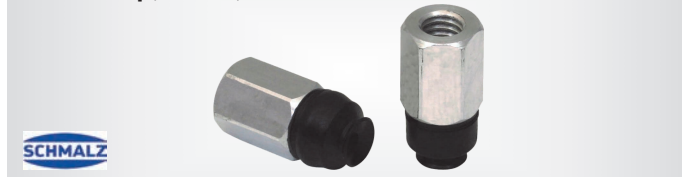
Pneumatic tubing; polyurethane; Classic; PNEUMAT**Pneumat.**

Pneumatic accessories : pneumatic tubing
 Material : polyurethane
 Application : compressed air
 Manufacturer : PNEUMAT

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Symbol	Thread	Valve function	Operating pressure [bar]
01VS150002	G 1/8"	5/2 bistable	1...10
01VS150003	G 1/4"	5/2 bistable	1...10

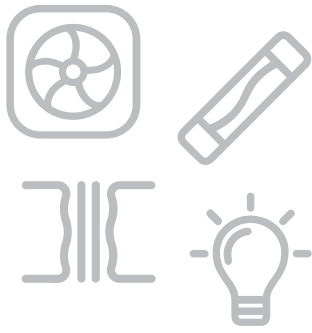
Suction cup; PFYN; SCHMALZ



Manufacturer : SCHMALZ

Pneumatic accessories : suction cup

Symbol	Mounting	Size	Suction force @-600mbar	Volume	Curve radius (min) (convex)	Ø _{ext. cable}
		[mm]	[N]	[cm ³]	[mm]	[mm]
SMZ.10.01.01.00082	M5-IG	6	1.2	0.008	7.5	2
SMZ.10.01.01.00084	M5-IG	10	4	0.07	12.5	2
SMZ.10.01.01.00085	G1/8" IG	15	9	0.4	12.5	4
SMZ.10.01.01.00088	G1/8" IG	30	34	1.3	40	4
SMZ.10.01.01.00089	G1/8" IG	35	44	2.7	50	4
SMZ.10.01.01.00091	G1/8" IG	50	91	7	75	4
SMZ.10.01.01.00092	G1/4 IG	60	125	10	100	6
SMZ.10.01.01.00094	G1/4 IG	95	350	35	200	6
SMZ.10.01.01.00095	M5-IG	5	0.75	0.005	7.5	2
SMZ.10.01.01.00098	M5-IG	10	4	0.07	12.5	2
SMZ.10.01.01.00099	G1/8" IG	15	9	0.4	12.5	4
SMZ.10.01.01.00101	G1/8" IG	25	26.5	1.3	25	4
SMZ.10.01.01.00102	G1/8" IG	30	34	1.3	40	4
SMZ.10.01.01.00104	G1/8" IG	40	57.7	3.8	50	4
SMZ.10.01.01.00106	G1/4 IG	60	125	10	100	6
SMZ.10.01.01.00137	M5-AG	5	0.75	0.005	7.5	2
SMZ.10.01.01.00140	M5-AG	10	4	0.07	12.5	2
SMZ.10.01.01.00141	G1/8" AG	15	9	0.4	12.5	4
SMZ.10.01.01.00144	G1/8" AG	30	34	1.3	40	4
SMZ.10.01.01.00147	G1/8" AG	50	91	7	75	4
SMZ.10.01.01.00149	G1/4 AG	80	260	25	150	6
SMZ.10.01.01.00154	M5-AG	10	4	0.07	12.5	2
SMZ.10.01.01.00156	G1/8" AG	20	15.5	0.8	20	4
SMZ.10.01.01.00158	G1/8" AG	30	34	1.3	40	4
SMZ.10.01.01.00159	G1/8" AG	35	44	2.7	50	4
SMZ.10.01.01.00162	G1/4 AG	60	125	10	100	6
SMZ.10.01.01.00255	G1/8" IG	10	4	0.07	12.5	4
SMZ.10.01.01.11132	M5-AG	8	2.3	0.03	10	2
SMZ.10.01.01.11133	M5-AG	10	4	0.07	12.5	2
SMZ.10.01.01.11135	G1/8" AG	15	9	0.4	12.5	4
SMZ.10.01.01.11138	G1/8" AG	30	34	1.3	40	4
SMZ.10.01.01.11141	G1/8" AG	50	91	7	75	4
SMZ.10.01.01.11143	G1/4 AG	80	260	25	150	6
SMZ.10.01.01.11146	M5-IG	8	2.3	0.03	10	2
SMZ.10.01.01.11149	G1/8" IG	15	9	0.4	12.5	4
SMZ.10.01.01.11152	G1/8" IG	30	34	1.3	40	4
SMZ.10.01.01.11154	G1/8" IG	40	57.7	3.8	50	4
SMZ.10.01.01.11156	G1/4 IG	60	125	10	100	6



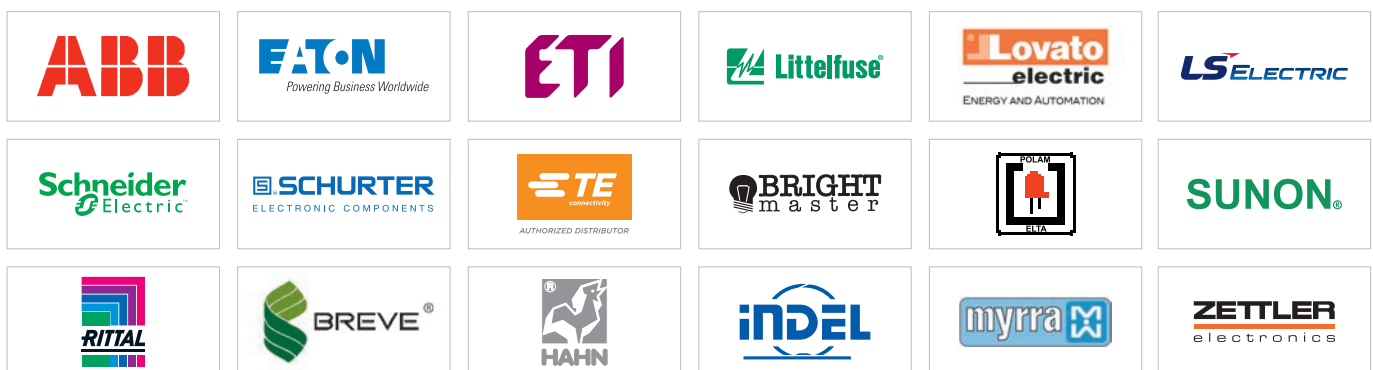
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Switches and indicators	35
Sound transducers	42
Relays and contactors	44
Transformers	52
Fans, cooling and heating systems	55
Light sources	58

Fuses and circuit breakers

THT PTC polymer fuses,



Manufacturer : EATON/BUSSMANN
 Type of fuse : PTC polymer
 Mounting : THT
 Operating temperature : -40...85°C

Symbol	Cur. rat. [A]	Switch. current [A]	Max. volt. [V]	R _{min} [Ω]	R _{max} [Ω]	Pow-er [W]	Max. current [A]
PTR060V0375-BK1	3.75	7.5	60	30m	50m	3.2	40
PTR060V0375-BK	3.75	7.5	60	30m	50m	3.2	40
PTR060V0300-BK	3	6	60	40m	60m	2.8	40
PTR060V0250-BK	2.5	5	60	50m	80m	2.5	40
PTR060V0185-BK	1.85	3.7	60	80m	120m	2.1	40
PTR060V0160-BK	1.6	3.2	60	90m	140m	1.9	40
PTR060V0135-BK	1.35	2.7	60	120m	190m	1.7	40
PTR060V0110-BK	1.1	2.2	60	150m	250m	1.5	40
PTR060V0090-BK	900m	1.8	60	200m	310m	990m	40
PTR060V0075-BK	750m	1.5	60	250m	400m	920m	40
PTR060V0065-BK	650m	1.3	60	310m	480m	880m	40
PTR060V0050-BK	500m	1	60	500m	770m	770m	40
PTR060V0040-BK	400m	800m	60	550m	860m	560m	40
PTR060V0030-BK1	300m	600m	60	880m	1.33	490m	40
PTR060V0030-BK	300m	600m	60	880m	1.33	490m	40
PTR060V0025-BK	250m	500m	60	1.25	1.95	450m	40
PTR060V0020-BK	200m	400m	60	1.83	2.75	410m	40
PTR060V0017-BK	170m	340m	60	3.3	5.21	480m	40
PTR060V0010-BK	100m	200m	60	2.5	4.5	380m	40
PTR030V0900-BK1	9	18	30	5m	10m	4.2	100
PTR030V0900-BK	9	18	30	5m	10m	4.2	100
PTR030V0800-BK	8	16	30	5m	13m	4	100
PTR030V0700-BK	7	14	30	5m	20m	3.8	100
PTR030V0600-BK	6	12	30	5m	20m	3.5	100
PTR030V0500-BK1	5	10	30	10m	30m	3	40
PTR030V0500-BK	5	10	30	10m	30m	3	40
PTR030V0400-BK1	4	8	30	10m	30m	2.5	40
PTR030V0400-BK	4	8	30	10m	30m	2.5	40
PTR030V0300-BK	3	6	30	20m	50m	2	40
PTR030V0250-BK	2.5	5	30	20m	40m	1.2	40
PTR030V0185-BK	1.85	3.7	30	30m	60m	1	40
PTR030V0160-BK	1.6	3.2	30	30m	70m	900m	40
PTR030V0135-BK	1.35	2.7	30	40m	80m	800m	40
PTR030V0110-BK	1.1	2.2	30	50m	100m	700m	40
PTR030V0090-BK	900m	1.8	30	70m	120m	600m	40
PTR016V1500-BK	15	25.5	16	2m	5m	4.6	100
PTR016V1400-BK	14	23.8	16	2m	5m	4.6	100
PTR016V1300-BK	13	22.1	16	2m	6m	4.6	100
PTR016V1200-BK	12	20.4	16	3m	6m	4.2	100
PTR016V1100-BK	11	18.7	16	3m	6m	3.7	100
PTR016V1000-BK	10	17	16	4m	7m	3.6	100
PTR016V0900-BK	9	15.3	16	5m	9m	3.3	100
PTR016V0800-BK	8	13.6	16	5m	11m	3	100
PTR016V0700-BK	7	11.9	16	6m	13m	3	100
PTR016V0600-BK	6	10.2	16	6m	18m	2.8	100
PTR016V0500-BK	5	8.5	16	10m	23m	2.6	100
PTR016V0400-BK	4	6.8	16	21m	38m	2.4	100
PTR016V0300-BK	3	5.1	16	38m	65m	2.3	100
PTR016V0250-BK	2.5	5	16	20m	36m	1.2	40
PTR016V0185-BK	1.85	3.7	16	30m	51m	1	40
PTR016V0160-BK	1.6	3.2	16	30m	61m	900m	40
PTR016V0135-BK	1.35	2.7	16	40m	74m	800m	40
PTR016V0110-BK	1.1	2.2	16	50m	95m	700m	40
PTR016V0090-BK	900m	1.8	16	70m	120m	600m	40

Symbol	Characterisitic	Manufacturer series	Cur. rat. [A]	Breaking capacity [kA]
ZCM-16A	medium time-lag	521.500	16	1.5
ZCM-2.5A	medium time-lag	521.500	2.5	1.5
ZCM-2A	medium time-lag	521.500	2	1.5
ZCM-3.15A	medium time-lag	521.500	3.15	1.5
ZCM-4A	medium time-lag	521.500	4	1.5
ZCM-5A	medium time-lag	521.500	5	1.5
ZCM-6.3A	medium time-lag	521.500	6.3	1.5
ZCM-8A	medium time-lag	521.500	8	1.5
ZCS-0.4A	quick blow	520.500	400m	1.5
ZCS-0.5A	quick blow	520.500	500m	1.5
ZCS-0.63A	quick blow	520.500	630m	1.5
ZCS-0.8A	quick blow	520.500	800m	1.5
ZCS-1.25A	quick blow	520.500	1.25	1.5
ZCS-1.6A	quick blow	520.500	1.6	1.5
ZCS-10A	quick blow	520.500	10	1.5
ZCS-1A	quick blow	520.500	1	1.5
ZCS-2.5A	quick blow	520.500	2.5	1.5
ZCS-2A	quick blow	520.500	2	1.5
ZCS-3.15A	quick blow	520.500	3.15	1.5
ZCS-4A	quick blow	520.500	4	1.5
ZCS-5A	quick blow	520.500	5	1.5
ZCS-6.3A	quick blow	520.500	6.3	1.5
ZCS-8A	quick blow	520.500	8	1.5
ZCT-0.16A	time-lag	522.700	160m	1.5
ZCT-0.1A	time-lag	522.700	100m	1.5
ZCT-0.2A	time-lag	522.700	200m	1.5
ZCT-0.315A	time-lag	522.700	315m	1.5
ZCT-0.4A	time-lag	522.700	400m	1.5
ZCT-0.5A	time-lag	522.700	500m	1.5
ZCT-0.63A	time-lag	522.700	630m	1.5
ZCT-0.8A	time-lag	522.700	800m	1.5
ZCT-1.25A	time-lag	522.700	1.25	1.5
ZCT-1.6A	time-lag	522.700	1.6	1.5
ZCT-10A	time-lag	522.700	10	1.5
ZCT-1A	time-lag	522.700	1	1.5
ZCT-2.5A	time-lag	522.700	2.5	1.5
ZCT-2A	time-lag	522.700	2	1.5
ZCT-3.15A	time-lag	522.700	3.15	1.5
ZCT-4A	time-lag	522.700	4	1.5
ZCT-5A	time-lag	522.700	5	1.5
ZCT-6.3A	time-lag	522.700	6.3	1.5
ZCT-8A	time-lag	522.700	8	1.5

Fuse: fuse; 6.3x32mm; ESKA



Type of fuse : fuse

Symbol	Manufacturer series	Cur. rat. [A]	Rated volt. [V AC]	Break. cap. [A]
ZGSS-0.5A	632.100	500m	250	35
ZGSS-0.63A	632.100	630m	250	35
ZGSS-0.8A	632.100	800m	250	35
ZGSS-1.6A	632.100	1.6	500	1.5k
ZGSS-2A	632.100	2	500	1.5k
ZGSS-2.5A	632.100	2.5	500	1.5k
ZGSS-3.15A	632.100	3.15	500	1.5k
ZGSS-4A	632.100	4	500	1.5k
ZGSS-5A	632.100	5	500	1.5k
ZGSS-6.3A	632.100	6.3	500	1.5k
ZGSS-8A	632.100	8	500	1.5k
ZGSS-10A	632.100	10	500	1.5k
ZGSS-12.5A	632.100	12.5	500	1.5k
ZGSS-16A	632.100	16	500	1.5k
ZGSS-20A	632.100	20	250	1.5k
ZGSS-25A	632.100	25	250	1.5k
632.407	632.400	100m	1k	30k
632.408	632.400	125m	1k	30k
632.409	632.400	160m	1k	30k
632.411	632.400	250m	1k	30k
632.413	632.400	400m	1k	30k
632.415	632.400	630m	1k	30k
632.419	632.400	1.6	1k	30k
632.420	632.400	2	1k	30k

Symbol	Characterisitic	Symbol	Characterisitic
ZGSS-0.5A	ultra rapid	ZGSS-12.5A	ultra rapid
ZGSS-0.63A	ultra rapid	ZGSS-16A	ultra rapid
ZGSS-0.8A	ultra rapid	ZGSS-20A	ultra rapid
ZGSS-1.6A	ultra rapid	ZGSS-25A	ultra rapid
ZGSS-2A	ultra rapid	632.407	ultra rapid
ZGSS-2.5A	ultra rapid	632.408	ultra rapid
ZGSS-3.15A	ultra rapid	632.409	ultra rapid
ZGSS-4A	ultra rapid	632.411	ultra rapid
ZGSS-5A	ultra rapid	632.413	ultra rapid
ZGSS-6.3A	ultra rapid	632.415	ultra rapid
ZGSS-8A	ultra rapid	632.419	ultra rapid
ZGSS-10A	ultra rapid	632.420	ultra rapid

Fuse: fuse; ceramic; 5x20mm; ESKA



Type of fuse : fuse
 Kind of fuse : ceramic, cylindrical, miniature
 Fuse size : 5x20mm
 Rated voltage : 250V AC

Symbol	Characterisitic	Manufacturer series	Cur. rat. [A]	Breaking capacity [kA]
ZCM-1.6A	medium time-lag	521.500	1.6	1.5
ZCM-10A	medium time-lag	521.500	10	1.5
ZCM-12.5A	medium time-lag	521.500	12.5	1.5

Fuse: fuse; ceramic; 5x20mm; 250V AC; LITTELFUSE



Type of fuse : fuse

Break. cap. : 1.5kA

Rated voltage : 250V AC

Symbol	Characterisitic	Cur. rat. [A]	Max volt. drop [V]
0215.500HXP	time-lag	0.5	0.85
0215.800HXP	time-lag	0.8	0.5
0215002.HXP	time-lag	2	0.19
0215004.HXP	time-lag	4	0.1
0215008.HXP	time-lag	8	0.1
021501.6HXP	time-lag	1.6	0.2
0215010.HXP	time-lag	10	0.1
0215010.MXEP	time-lag	10	0.1
021502.5HXP	time-lag	2.5	0.18
021506.3HXP	time-lag	6.3	0.1
02151.25HXP	time-lag	1.25	0.3
02153.15HXP	time-lag	3.15	0.14
0216.063HXP	quick blow	0.063	8.8
0216.100HXP	quick blow	0.1	7
0216.125HXP	quick blow	0.125	5
0216.250HXP	quick blow	0.25	2.8
0216.315HXP	quick blow	0.315	2.5
0216.500HXP	quick blow	0.5	1.8
0216001.HXP	quick blow	1	1
0216002.HXP	quick blow	2	0.5
0216004.HXP	quick blow	4	0.3
0216005.HXP	quick blow	5	0.25
0216008.HXP	quick blow	8	0.2
021601.6HXP	quick blow	1.6	0.6
0216010.HXP	quick blow	10	0.2
021602.5HXP	quick blow	2.5	0.4
021606.3HXP	quick blow	6.3	0.2
02161.25HXP	quick blow	1.25	0.8
02163.15HXP	quick blow	3.15	0.315

Fuse: fuse; ceramic, industrial; LITTELFUSE



Type of fuse : fuse

Kind of fuse : ceramic, cylindrical, industrial

Symbol	Characterisitic	Rated volt. [V AC]	Cur. rat. [A]	Fuse size [mm]
OBLN001.T	quick blow	250	1	10.3x38
OBLN002.T	quick blow	250	2	10.3x38
OBLN003.T	quick blow	250	3	10.3x38
OBLN004.T	quick blow	250	4	10.3x38
OBLN005.T	quick blow	250	5	10.3x38
OBLN006.T	quick blow	250	6	10.3x38
OBLN008.T	quick blow	250	8	10.3x38
OBLN010.T	quick blow	250	10	10.3x38
OBLN012.T	quick blow	250	12	10.3x38
OBLN015.T	quick blow	250	15	10.3x38
OBLN020.T	quick blow	250	20	10.3x38
OBLN025.T	quick blow	250	25	10.3x38
OBLN030.T	quick blow	250	30	10.3x38
OFLQ.250T	time-lag	500	250m	10.3x38
OFLQ.500T	time-lag	500	500m	10.3x38
OFLQ001.T	time-lag	500	1	10.3x38
OFLQ002.T	time-lag	500	2	10.3x38
OFLQ003.T	time-lag	500	3	10.3x38
OFLQ004.T	time-lag	500	4	10.3x38
OFLQ005.T	time-lag	500	5	10.3x38
OFLQ007.T	time-lag	500	7	10.3x38
OFLQ008.T	time-lag	500	8	10.3x38
OFLQ01.6T	time-lag	500	1.6	10.3x38
OFLQ010.T	time-lag	500	10	10.3x38
OFLQ012.T	time-lag	500	12	10.3x38
OFLQ015.T	time-lag	500	15	10.3x38
OFLQ02.5T	time-lag	500	2.5	10.3x38
OFLQ020.T	time-lag	500	20	10.3x38
OFLQ025.T	time-lag	500	25	10.3x38
OFLQ03.2T	time-lag	500	3.2	10.3x38
OFLQ030.T	time-lag	500	30	10.3x38
OFLQ6.25T	time-lag	500	6.25	10.3x38
OKLK.250T	quick blow	600	250m	10.3x38
OKLK.300T	quick blow	600	300m	10.3x38
OKLK.500T	quick blow	600	500m	10.3x38
OKLK.750T	quick blow	600	750m	10.3x38
OKLK001.T	quick blow	600	1	10.3x38
OKLK002.T	quick blow	600	2	10.3x38
OKLK003.T	quick blow	600	3	10.3x38
OKLK004.T	quick blow	600	4	10.3x38
OKLK010.T	quick blow	600	10	10.3x38
OKLK012.T	quick blow	600	12	10.3x38
OKLK015.T	quick blow	600	15	10.3x38
OKLK020.T	quick blow	600	20	10.3x38
OKLK025.T	quick blow	600	25	10.3x38
OKLK030.T	quick blow	600	30	10.3x38

Current prices are available on www.tme.pl

Fuse: fuse; glass; 6.3x32mm; LITTELFUSE



Type of fuse : fuse

Kind of fuse : cylindrical, miniature, glass

Symbol	Characterisitic	Cur. rat. [A]	Rated volt. [V AC]	Break. cap. [A]
0312.250HXP	quick blow	250m	250	35
0312005.HXP	quick blow	5	250	200
0312010.HXP	quick blow	10	250	200
0313.010HXP	time-lag	10m	250	35
0313.062HXP	time-lag	62m	250	35
0313.150HXP	time-lag	150m	250	35
0313.500HXP	time-lag	500m	250	35
0313001.HXP	time-lag	1	250	35
0313002.HXP	time-lag	2	250	100
0313003.HXP	time-lag	3	250	100
0313004.HXP	time-lag	4	250	200
0313005.HXP	time-lag	5	250	200
0313007.HXP	time-lag	7	250	200
0313008.HXP	time-lag	8	250	200
0313010.HXP	time-lag	10	32	300
0313015.HXP	time-lag	15	32	300
0313020.HXP	time-lag	20	32	300
0313025.HXP	time-lag	25	32	300
031303.2HXP	time-lag	3.2	250	100
0313030.HXP	time-lag	30	32	300
031306.3HXP	time-lag	6.3	250	200
03136.25HXP	time-lag	6.25	250	200
0312.125HXP	quick blow	125m	250	35
0312.500HXP	quick blow	500m	250	35
0312.600HXP	quick blow	600m	250	35
0312007.HXP	quick blow	7	250	200
0312008.HXP	quick blow	8	250	200
031201.5HXP	quick blow	1.5	250	100
0312012.HXP	quick blow	12	32	300
0312015.HXP	quick blow	15	32	300
031202.5HXP	quick blow	2.5	250	100
0312020.HXP	quick blow	20	32	300
0312025.HXP	quick blow	25	32	300
0312030.HXP	quick blow	30	32	300
03122.25HXP	quick blow	2.25	250	100
0312006.HXP	quick blow	6	250	200

Fuses size 8x31mm by DF ELECTRIC



Manufacturer : DF ELECTRIC

Type of fuse : fuse

Kind of fuse : ceramic, cylindrical, industrial

Rated volt. : 400V AC

Break. cap. : 20kA / 400V AC

Fuse size : 8x31mm

Symbol	Characterisitic	Cur. rat. [A]	Symbol	Characterisitic	Cur. rat. [A]
411201	aM	1	420604	gG	4
411202	aM	2	420606	gG	6
411204	aM	4	420608	gG	8
411206	aM	6	420610	gG	10
411210	aM	10	420612	gG	12
420500	gG	500m	420616	gG	16
420501	gG	1	420820	gG	20
420602	gG	2			

Fuses and circuit breakers

Fuse: fuse; 10.3x38mm; ETI POLAM



Manufacturer : ETI POLAM

Type of fuse : fuse

Kind of fuse : cylindrical

Symbol	Cur. rat. [A]	Characterisitc	Rated voltage
002625138	1	gPV	1000 V DC
002625110	7	gPV	1000 V DC
002625109	25	gPV	1000 V DC
002625139	25	gPV	1000 V DC
002651011	500m	gG	500 V AC
002651012	1	gG	500 V AC
002651013	2	gG	500 V AC
002651014	4	gG	500 V AC
002651015	6	gG	500 V AC
002651016	8	gG	500 V AC
002651017	10	gG	500 V AC
002651018	12	gG	500 V AC
002651019	16	gG	500 V AC
002651020	20	gG	500 V AC
002651021	25	gG	500 V AC
002651022	32	gG	500 V AC

Fuse: fuse; industrial; 22x58mm; ETI POLAM



Manufacturer : ETI POLAM

Type of fuse : fuse

Kind of fuse : cylindrical, industrial

Symbol	Rated volt. [V AC]	Characterisitc	Cur. rat. [A]
002643027	400	gG	125
002640019	500	gG	50
002640009	690	gG	16
002641009	690	aM	16
002641011	690	aM	20
002641013	690	aM	25
002641015	690	aM	32

Fuse: fuse; industrial; time-lag; JTD; LITTELFUSE



Manufacturer : LITTELFUSE

Type of fuse : fuse

Kind of fuse : industrial

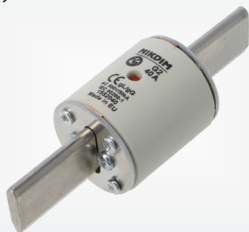
Characterisitc : time-lag

Rated volt. : 600V AC

Manufacturer series : JTD

Symbol	Rated volt. [V DC]	Cur. rat. [A]	Symbol	Rated volt. [V DC]	Cur. rat. [A]
0JTD006.T	300	6	0JTD080.V	300	80
0JTD010.T	300	10	0JTD150.X	500	150
0JTD003.T	300	3	0JTD250.X	500	250
0JTD008.T	300	8	0JTD300.X	500	300
0JTD012.T	300	12	0JTD350.X	500	350
0JTD025.T	300	25	0JTD500.X	500	500

Type of fuse: fuse; Manufacturer: NIKDIM LTD



Manufacturer : NIKDIM LTD

Type of fuse : fuse

Kind of fuse : industrial

Symbol	Characterisitc	Size	Rated volt.	Cur. rat. [A]
1552040	gG	NHg	500 V AC	40
1552075	gG	NHg	500 V AC	75
1552150	gG	NHg	500 V AC	150
1552200	gG	NHg	500 V AC	200
1552250	gG	NHg	500 V AC	250
1554250	gG	NHg	500 V AC	250
1554400	gG	NHg	500 V AC	400
3201100	gG	NH1	500 V AC	100
3201125	gG	NH1	500 V AC	125
3201160	gG	NH1	500 V AC	160
3201200	gG	NH1	500 V AC	200
3201250	gG	NH1	500 V AC	250
3202200	gG	NH2	500 V AC	200
3202224	gG	NH2	500 V AC	224
3202250	gG	NH2	500 V AC	250
3202300	gG	NH2	500 V AC	300
3202315	gG	NH2	500 V AC	315
3202355	gG	NH2	500 V AC	355
3202400	gG	NH2	500 V AC	400
3203500	gG	NH3	500 V AC	500
3203630	gG	NH3	500 V AC	630
3204101	gG	NH4a	500 V AC	1k
3204126	gG	NH4a	500 V AC	1.25k
3204801	gG	NH4a	500 V AC	800
3210063	gG	NH0	500 V AC	63
3210080	gG	NH0	500 V AC	80
3210100	gG	NH0	500 V AC	100
3210125	gG	NH0	500 V AC	125
3210160	gG	NH0	500 V AC	160
3220063	gG	NH00	500 V AC	63
3220080	gG	NH00	500 V AC	80
3220100	gG	NH00	500 V AC	100
3220125	gG	NH00	500 V AC	125
3220160	gG	NH00	500 V AC	160
3230040	gG	NH000	500 V AC	40
3230050	gG	NH000	500 V AC	50
3230063	gG	NH000	500 V AC	63
3230080	gG	NH000	500 V AC	80
3230100	gG	NH000	500 V AC	100
3601050	gPV	NH1	1 kV DC	50
3601050XL	gPV	NH1XL	1.5 kV DC	50
3601063	gPV	NH1	1 kV DC	63
3601063XL	gPV	NH1XL	1.5 kV DC	63
3601080	gPV	NH1	1 kV DC	80
3601080XL	gPV	NH1XL	1.5 kV DC	80
3601100	gPV	NH1	1 kV DC	100
3601100XL	gPV	NH1XL	1.5 kV DC	100
3601125	gPV	NH1	1 kV DC	125
3601125XL	gPV	NH1XL	1.5 kV DC	125
3601160	gPV	NH1	1 kV DC	160
3601160XL	gPV	NH1XL	1.5 kV DC	160
3601200	gPV	NH1	1 kV DC	200
3601200XL	gPV	NH1XL	1.5 kV DC	200
3602160	gPV	NH2	1 kV DC	160
3602200	gPV	NH2	1 kV DC	200
3602200XL	gPV	NH2XL	1.5 kV DC	200
3602250	gPV	NH2	1 kV DC	250
3602250XL	gPV	NH2XL	1.5 kV DC	250
3603200	gPV	NH2	1 kV DC	200
3603250	gPV	NH2	1 kV DC	250
3603315	gPV	NH2	1 kV DC	315
3603315L	gPV	NH2L	1.5 kV DC	315
3603400	gPV	NH2	1 kV DC	400
3603400L	gPV	NH2L	1.5 kV DC	400
3801100	gS	NH1	800 V AC	100
3801125	gG	NH1	800 V AC	125
3801160	gG	NH1	800 V AC	160
3802160	gG	NH2	800 V AC	160
3802200	gG	NH2	800 V AC	200
3802250	gG	NH2	800 V AC	250
3803200	gG	NH3	800 V AC	200
3803250	gG	NH3	800 V AC	250
3803315	gG	NH3	800 V AC	315
3820100	gG	NH00	800 V AC	100
4101160	gS	NH1	800 V AC	160
4001160	gS	NH1	800 V AC	160
4101200	gS	NH1	800 V AC	200
4001200	gS	NH1	800 V AC	200
4101251	gS	NH1	800 V AC	250
4001251	gS	NH1	800 V AC	250
4001250	gS	NH1	800 V AC	250
4102125	gS	NH2	800 V AC	125
4002125	gS	NH2	800 V AC	125
4102160	gS	NH2	800 V AC	160
4002160	gS	NH2	800 V AC	160
4102200	gS	NH2	800 V AC	200

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Type of fuse: fuse; Manufacturer: NIKDIM LTD (cont.)

Symbol	Characterisitc	Size	Rated volt.	Cur. rat.
4002200	gS	NH2	800 V AC	200
4102250	gS	NH2	800 V AC	250
4002250	gS	NH2	800 V AC	250
4102315	gS	NH2	800 V AC	315
4002315	gS	NH2	800 V AC	315
4102401	gS	NH2	800 V AC	400
4002401	gS	NH2	800 V AC	400
4002400	gS	NH2	800 V AC	400
4103250	gS	NH3	800 V AC	250
4003250	gS	NH3	800 V AC	250
4103315	gS	NH3	800 V AC	315
4003315	gS	NH3	800 V AC	315
4103350	gS	NH3	800 V AC	350
4003350	gS	NH3	800 V AC	350
4103400	gS	NH3	800 V AC	400
4003400	gS	NH3	800 V AC	400
4120100	gS	NH00	800 V AC	100
4020100	gS	NH00	800 V AC	100

Fuses MERSEN



Manufacturer : MERSEN
 Type of fuse : fuse
 Kind of fuse : ceramic, cylindrical, industrial

Symbol	Fuse size [mm]	Characterisitc	Cur. rat. [A]	Rated volt. [V AC]
A1014576	10x38	gR	10	690
A214107	10x38	gG	32	400
B212061	10x38	gG	1	500
C1014578	10x38	gR	12.5	690
C211027	10x38	gG	500m	500
D1014579	10x38	gR	16	690
D211028	10x38	gG	20	500
D213098	10x38	gG	2	500
D217169	10x38	gG	8	500
E1014580	10x38	gR	20	690
E213099	10x38	gG	25	500
E217170	10x38	gG	4	500
E222207	10x38	gG	10	500
F1014581	10x38	gR	25	690
F214618	10x38	aM	16	500
F217171	10x38	aM	1	500
F222208	10x38	aM	6	500
G097526	17x27	gR	125	250
G1014582	10x38	gR	30	690
G200750	10x38	gG	16	500
G217172	10x38	aM	25	400
H1014583	10x38	gR	32	690
H201809	10x38	gG	16	500
H218714	10x38	aM	2	500
HP10M10	10x38	gPV	10	1k
HP10M12	10x38	gPV	12	1k
HP10M15	10x38	gPV	15	1k
HP10M20	10x38	gPV	20	1k
HP10M4	10x38	gPV	4	1k
J075885	17x49	gR	25	690
J218715	10x38	aM	32	400
J219773	22x58	gG	125	500
K215128	10x38	gG	6	500
L1014563	10x38	gR	1	690
L200754	14x51	gG	10	690
M075888	17x49	gR	40	690
P221250	17x49	aR	50	690
Q1014567	10x38	gR	2	690
Q217180	22x58	gG	80	690
Q221251	17x49	aR	63	690
R076651	17x27	aR	25	250
R302787	10x38	gG	1	690
S076652	17x27	aR	30	250
S218194	10x38	gG	10	500
S302788	10x38	gG	2	690
T218195	10x38	gG	6	500
T302789	10x38	gG	4	690
V076654	17x27	aR	50	250
V1014571	10x38	gR	3	690
V221255	17x49	aR	100	690
V302790	10x38	gG	6	690
W076655	17x27	gR	60	250
W1014572	10x38	gR	4	690
W216656	14x51	gG	32	500
W219232	10x38	aM	4	500
W219761	10x38	gG	12	500
X1014573	10x38	gR	5	690
X213598	10x38	gG	4	500

Symbol	Fuse size [mm]	Characterisitc	Cur. rat. [A]	Rated volt. [V AC]
X216151	10x38	aM	20	500
X218198	14x51	gG	40	500
X302792	10x38	gG	10	690
Y1014574	10x38	gR	6	690
Y211552	10x38	aM	10	500
Y215646	22x58	gG	63	690
Z085559	17x27	aR	80	250
Z201295	10x38	aM	8	500
Z212588	14x51	gG	20	690
Z219235	14x51	gG	50	500

Fuse accessories: fuse holder; FSO; SCHURTER



SCHURTER

Fuse accessories : fuse holder
 Maximum current : 30A
 Rated volt. : 600V AC
 Mounting : for DIN rail mounting
 Operating temperature : -40...130°C
 Body material : thermoplastic
 Flammability rating : UL94V-2
 Manufacturer series : FSO
 Symbol Number of ways
 0091.0001 1
 0091.0002 2
 0091.0003 3
 0091.0004 4

Accessories; LITTELFUSE



Littelfuse

Manufacturer : LITTELFUSE

Symbol	Fuse accessories	Current rating [A]	Rated voltage [V]
L60030M1SQ	fuse holder	30	600
LPHV0001Z	fuse holder	30	1k
LPSM0001ZXID	fuse holder	30	600
LPSM0001ZQCID	fuse holder	30	600
LPSC0003Z	fuse holder	30	600
LFT600603C	fuse holder	60	600
LFT600303C	fuse holder	30	600
LFT300603C	fuse holder	60	300
LFT300601C	fuse holder	60	300
LFT300303C	fuse holder	30	300
LFH250601C	fuse holder	60	250
LFH250301S	fuse holder	30	250

Safety switch: bolting; TLS1-GD2; Allen Bradley Guardmaster



Manufacturer : Allen Bradley Guardmaster
 Type of safety switch : bolting
 Manufacturer series : TLS1-GD2
 Body material : plastic
 Colour : red
 Contacts configuration : NC x2
 Auxiliary contacts : NO
 Electrical connection : M20 x3
 Number of key entry slots : 4
 Mechanical durability : 1000000 cycles
 Force : 2000N
 Operating temperature : -20...60°C
 IP rating : IP67
 Features : no key; power to release

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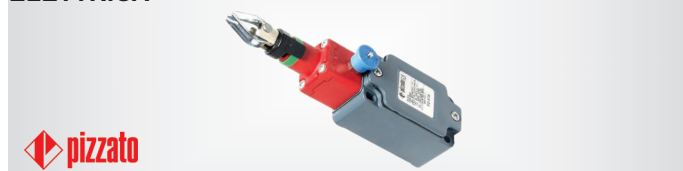
Safety switch: bolting; TLS1-GD2; Allen Bradley Guardmaster (cont.)

Symbol	Supply voltage [V DC]	Supply voltage [V AC]
440G-T27121	24	24
440G-T27124	-	110
440G-T27123	-	230

Related articles:

Symbol	Product description
440G-A27011	Standard key; TLS1-GD2 / TLS2-GD2 / TLS3-GD2
440G-A27143	Flexible key; TLS1-GD2 / TLS2-GD2 / TLS3-GD2
440K-A11112	Flat key; TLS1-GD2 / TLS2-GD2 / TLS3-GD2

Safety switch: singl-sided rope switch; FD; PIZZATO ELETRICA



Manufacturer : PIZZATO ELETRICA
 Manufacturer series : FD
 Body material : metal
 Colour : grey
 Electrical connection : PG13,5
 Mechanical durability : 1000000 cycles
 Operating temperature : -25...80°C
 IP rating : IP67
 Type of safety switch : singl-sided rope switch

Symbol	Contacts layout	Kind of actuator
FD1878	NC + NO	longitudinal, with reset
FD1879	NC + NO	without reset, longitudinal
FD1880	NC + NO	without reset, transversal
FD1883	NC + NO	left transversal, with reset
FD1884	NC + NO	right transversal, with reset
FD2078	NC x2 + NO	longitudinal, with reset
FD2079	NC x2 + NO	without reset, longitudinal
FD2080	NC x2 + NO	without reset, transversal
FD2083	NC x2 + NO	left transversal, with reset
FD2084	NC x2 + NO	right transversal, with reset
FD2178	NC x3	longitudinal, with reset
FD2179	NC x3	without reset, longitudinal
FD2180	NC x3	without reset, transversal
FD2183	NC x3	left transversal, with reset
FD2184	NC x3	right transversal, with reset
FD978	NC x2	longitudinal, with reset
FD979	NC x2	without reset, longitudinal
FD980	NC x2	without reset, transversal
FD983	NC x2	left transversal, with reset
FD984	NC x2	right transversal, with reset

Symbol: FD1878, FD1879, FD2078, FD2079, FD2178, FD2179, FD978, FD979:

Features:

- actuating force - 90N
- correct line tightening indicator

Line:

- 18m - one side mounted switch
- 24m - two side mounted switch

Symbol: FD188x, FD208x, FD218x, FD98x:

Features:

- actuating force - 250N
- correct line tightening indicator

Line:

- 50m - one side mounted switch
- 70m - two side mounted switch

Safety switch: bolting; FS; PIZZATO ELETRICA



Manufacturer : PIZZATO ELETRICA
 Type of safety switch : bolting
 Manufacturer series : FS
 Body material : plastic
 Colour : black, red
 Operating temperature : -25...60°C
 IP rating : IP66
 Mechanical durability : 800000 cycles



Symbol	Contacts layout	Auxiliary contacts	Force [N]	Electr. connect. [V DC]	U _{sup} [V DC]	U _{sup} [V AC]
FS-1896D024	NC + NO	-	1100	PG13.5 x3	24	24
FS-1896D230	NC + NO	-	1100	PG13.5 x3	-	230
FS-1896E024	NC + NO	-	1100	PG13.5 x3	24	24
FS-1896E230	NC + NO	-	1100	PG13.5 x3	-	230
FS-1898D024	NC + NO	-	900	PG13.5 x3	24	24
FS-1898D230	NC + NO	-	900	PG13.5 x3	-	230
FS-2096D024	NC x2 + NO	-	1100	PG13.5 x3	24	24
FS-2096D230	NC x2 + NO	-	1100	PG13.5 x3	-	230
FS-2096E024	NC x2 + NO	-	1100	PG13.5 x3	24	24
FS-2098D024	NC x2 + NO	-	900	PG13.5 x3	24	24
FS-2098D230	NC x2 + NO	-	900	PG13.5 x3	-	230
FS-2896D024	NC + NO	NC	1100	PG13.5 x3	24	24
FS-2896D230	NC + NO	NC	1100	PG13.5 x3	-	230
FS-2896E024	NC + NO	NC	1100	PG13.5 x3	24	24
FS-2898D024	NC + NO	NC	900	PG13.5 x3	24	24
FS-2898D120	NC + NO	NC	900	PG13.5 x3	-	120
FS-2898D230	NC + NO	NC	900	PG13.5 x3	-	230
FS-2996D024	NC x2	NC	1100	PG13.5 x3	24	24
FS-2996D120	NC x2	NC	1100	PG13.5 x3	-	120
FS-2996D230	NC x2	NC	1100	PG13.5 x3	-	230
FS-2996E024	NC x2	NC	900	PG13.5 x3	24	24
FS-2998D024	NC x2	NC	900	PG13.5 x3	24	24
FS-2998D230	NC x2	NC	900	PG13.5 x3	-	230
FS-3096D024	NC	NC x2	1100	PG13.5 x3	24	24
FS-3096D230	NC	NC x2	1100	PG13.5 x3	-	230
FS-3096E024	NC	NC x2	1100	PG13.5 x3	24	24
FS-3098D024	NC	NC x2	900	PG13.5 x3	24	24
FS-3098D230	NC	NC x2	900	PG13.5 x3	-	230
FS-2896E230	NC + NO	NC	1100	PG13,5	-	230

Number of key entry slots : 8

Features : no key

Symbol	Features
FS-1896D024	power to release
FS-1896D230	power to release
FS-1896E024	power to lock
FS-1896E230	power to lock
FS-1898D024	power to release; with key switch releasing the lock
FS-1898D230	power to release; with key switch releasing the lock
FS-2096D024	power to release
FS-2096D230	power to release
FS-2096E024	power to lock
FS-2098D024	power to release; with key switch releasing the lock
FS-2098D230	power to release; with key switch releasing the lock
FS-2896D024	power to release
FS-2896D230	power to release
FS-2896E024	power to lock
FS-2898D024	power to release; with key switch releasing the lock
FS-2898D120	power to release; with key switch releasing the lock
FS-2898D230	power to release; with key switch releasing the lock
FS-2996D024	power to release
FS-2996D120	power to release
FS-2996D230	power to release
FS-2996E024	power to lock
FS-2998D024	power to release; with key switch releasing the lock
FS-2998D230	power to release; with key switch releasing the lock
FS-3096D024	power to release
FS-3096D230	power to release
FS-3096E024	power to lock
FS-3098D024	power to release; with key switch releasing the lock
FS-3098D230	power to release; with key switch releasing the lock
FS-2896E230	power to lock

Related articles:

Symbol	Product description
VF-KEYF	Flat key; FS; Features: standard actuator
VF-KEYF1	Standard key; FS; Features: angled actuator
VF-KEYF2	Flexible key; FS
VF-KEYF3	Flexible key; FS
VF-KEYF7	Flexible key; FS; Features: actuator adjustable in 1 direction
VF-KEYF8	Universal key; FS; Features: Universal actuator
VF-KLA371	Spare keys; FS

Safety switch: key operated; AZ 16; SCHMERSAL



Manufacturer : SCHMERSAL
 Type of safety switch : key operated
 Body material : plastic
 Colour : black
 Operating temperature : -30...80°C
 IP rating : IP67

cont. on the next page

Safety switch: key operated; AZ 16; SCHMERSAL (cont.)

Manufacturer series : AZ 16
 Number of key entry slots : 1
 Mechanical durability : 1000000 cycles
 Body dim. : 52x90x30mm
 Contacts electrical parameters : 250V AC / 4A, 24V DC / 4A

Symbol	Contacts layout	Electr. connect.	Features
101147145	NC x2	M16 x3	no key; latching force 30N
101154221	NC x2 + NO	M16 x3	no key; latching force 30N
101152725	NC x2 + NO	M16 x3	no key
101154220	NC x3	M16 x3	no key; latching force 30N
101157373	NC x2 + NO	M20 x3	no key; latching force 30N
101150050	NC x2 + NO	M16 x3	with straight key
101154699	NC x2	M16 x3	no key
101157381	NC x2	M20 x3	no key; latching force 30N
101152887	NC + NO	M16 x3	no key
101152094	NC + NO	M16 x3	no key; latching force 30N
101157379	NC + NO	M20 x3	no key; latching force 30N
101143122	NC + NO	M12	no key
101143124	NC + NO	M12	no key; latching force 30N
101143125	NC x2	M12	no key; latching force 30N
101155113	NC x3	M16 x3	no key
101156104	NC x2	M16 x3	no key; latching force 5N
101157371	NC x2 + NO	M20 x3	no key
101157374	NC x3	M20 x3	no key
101157378	NC + NO	M20 x3	no key
101161098	NC + NO	M20 x3	no key
101164015	NC x2	M16 x3	no key
101167057	NC + NO	M16 x3	no key; latching force 5N

Related articles:

Symbol	Product description
101083036	Standard key;AZ 15/16;stainless steel
101093553	Standard key;AZ 15/16;Kit:actuator,lock
101095550	Flexible key;AZ 15/16
101095558	Flexible key;AZ 15/16
101111081	Standard key;AZ 15/16;stainless steel
101137434	Flexible key;AZ 15/16

Symbol	Contacts configuration	Electrical connection	Leads	U _{sup} [V DC]	U _{sup} [V AC]
101195902	NC x5 + NO x1	M16 x4	Cage Clamp	24	24
101195904	NC x5 + NO x1	M16 x4	screw terminals	24	24
101196106	NC x4 + NO x2	M16 x4	screw terminals	24	24

Symbol	Features
101164207	no key; power to release
101166285	no key; power to lock
101166283	no key; power to release; manual release from side
101166284	no key; power to release; manual release from side
101166287	no key; power to lock; manual release from side
101195901	no key; power to lock; manual release from side
101166282	no key; power to release; manual release from side
101177876	no key; power to release; emergency exit, lateral; manual release from side
101181381	no key; power to lock; emergency exit, lateral; manual release from side
101187819	no key; power to release; manual release, rear
101187849	no key; power to release; emergency exit, rear; manual release from side
101211547	power to lock; with key; manual release from side
101215900	power to release; with key; manual release from side
101192434	no key; power to lock; manual release from side
101166286	no key; power to lock
101172152	no key
101176503	no key
101178837	no key; power to lock
101181019	no key
101187838	no key
101187884	no key
101187906	no key
101187908	no key
101187912	no key
101187946	no key; power to lock
101192424	no key; power to lock
101195886	no key
101195892	no key; power to lock
101195902	no key
101195904	no key
101196106	no key

Related articles:

Symbol	Product description
101144420	Flexible key;AZM 161
101145117	Standard key;AZM 161

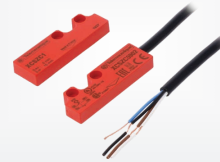
Safety switch: bolting; AZM 161; SCHMERSAL



Manufacturer : SCHMERSAL
 Type of safety switch : bolting
 Body material : plastic
 Colour : black
 Manufacturer series : AZM 161
 Number of key entry slots : 1
 Force : 2000N
 Mechanical durability : 1000000 cycles
 Body dimensions : 130x90x30mm
 Operating temperature : -25...60°C
 IP rating : IP67

Symbol	Contacts configuration	Electrical connection	Leads	U _{sup} [V DC]	U _{sup} [V AC]
101164207	NC x4 + NO x2	M16 x4	screw terminals	24	24
101166285	NC x4 + NO x2	M16 x4	screw terminals	24	24
101166283	NC x4 + NO x2	M16 x4	Cage Clamp	24	24
101166284	NC x4 + NO x2	M16 x4	Cage Clamp	-	110/230
101166287	NC x4 + NO x2	M16 x4	Cage Clamp	24	24
101195901	NC x5 + NO x1	M16 x4	Cage Clamp	24	24
101166282	NC x4 + NO x2	M16 x4	screw terminals	-	110/230
101177876	NC x4 + NO x2	M16 x4	screw terminals	24	24
101181381	NC x4 + NO x2	M16 x4	screw terminals	24	24
101187819	NC x4 + NO x2	M16 x4	screw terminals	24	24
101187849	NC x4 + NO x2	M16 x4	screw terminals	24	24
101211547	NC x4 + NO x2	M20	screw terminals	24	24
101215900	NC x4 + NO x2	M20	screw terminals	24	24
101192434	NC x3 + NO x2	M16 x2	M12 x2	24	24
101166286	NC x4 + NO x2	M16 x4	screw terminals	-	110/230
101172152	NC x4 + NO x2	M16 x4	screw terminals	24	24
101176503	NC x4 + NO x2	M16 x4	screw terminals	24	24
101178837	NC x4 + NO x2	M16 x4	screw terminals	24	24
101181019	NC x4 + NO x2	M16 x4	Cage Clamp	24	24
101187838	NC x4 + NO x2	M16 x4	screw terminals	24	24
101187884	NC x4 + NO x2	M16 x4	Cage Clamp	24	24
101187906	NC x4 + NO x2	M16 x4	screw terminals	-	110/230
101187908	NC x4 + NO x2	M16 x4	screw terminals	-	110/230
101187912	NC x4 + NO x2	M16 x4	screw terminals	-	110/230
101187946	NC x4 + NO x2	M16 x4	Cage Clamp	24	24
101192424	NC x3 + NO x2	M16 x2	M12 x2	24	24
101195886	NC x5 + NO x1	M16 x4	screw terminals	24	24
101195892	NC x5 + NO x1	M16 x4	screw terminals	24	24

Safety switch: magnetic; XCSDM Compact; TELEMECANIQUE SENSORS



Type of safety switch : magnetic
 Body material : plastic
 I_{oper. max} : 100mA
 U_{switch.} : max. 100V AC
 Switched voltage : max. 100V DC
 Body dim. : 51x16x7mm
 Operating temperature : -25...85°C
 IP rating : IP67
 Kit contents : sensor; magnet

Symbol	Contacts layout	Connection	Pin	Lead length [m]
XCSDMC7902	NC x2	cables	-	2
XCSDMC5902	NC + NO	cables	-	2
XCSDMC5905	NC + NO	cables	-	5
XCSDMC5912	NC + NO	cables	-	2
XCSDMC7905	NC x2	cables	-	5
XCSDMC790L01M8	NC x2	M8, cables	4	0.15

Safety switch: bolting; XCSE; TELEMECANIQUE SENSORS



Manufacturer : TELEMECANIQUE SENSORS
 Type of safety switch : bolting
 Body material : metal
 IP rating : IP67

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Fuses and circuit breakers

Safety switch: bolting; XCSE; TELEMECANIQUE SENSORS (cont.)

Operating temperature : -25...40°C
 Colour : red
 Number of key entry slots : 4
 Force : 2kN
 Related items : XCSZ01, XCSZ02, XCSZ03, XCSZ05
 Trade name : PREVENTA
 Manufacturer series : XCSE

Supply voltage : 24V DC
 Supply voltage : 24V AC
 Contacts configuration : NC + NO
 Features : no key

Symbol	Electr. connect.	Features	Safety outputs
XCSE5311	PG13,5 x2	power to release	NC x1, NO x2
XCSE5312	M20 x2	power to release	NC x1, NO x2
XCSE5313	1/2NPT x2	power to release	NC x1, NO x2
XCSE7311	PG13,5 x2	power to release	NC x2, NO x1
XCSE7312	M20 x2	power to release	NC x2, NO x1
XCSE7313	1/2NPT x2	power to release	NC x2, NO x1
XCSE7511	PG13,5 x2	power to lock	NC x2, NO x1
XCSE7512	M20 x2	power to lock	NC x2, NO x1
XCSE8311	PG13,5 x2	power to release	NC x3
XCSE8511	PG13,5 x2	power to lock	NC x3

Safety relay; PNOZ X3; PILZ



Manufacturer : PILZ
 Type of module : safety relay
 Manufacturer series : PNOZ X3
 Electrical connection : screw terminals
 IP rating : IP40
 Operating temperature : -20...55°C
 Mounting : for DIN rail mounting
 Contacts configuration : NC + NO x3
 Features : controlled or automatic start-up
 Safety category : 2, 4 (EN ISO 13849)
 Number of outputs : 5
 Number of inputs : 2
 Input 1 properties : 2 channels with or without between-channels short circuit detection

Trade name	Symbol	Supply voltage [V AC]	Supply voltage [V DC]
PNOZ X3	774310	24	24
PNOZ X3	774318	230	24

Safety relay; PNOZ s4; PILZ



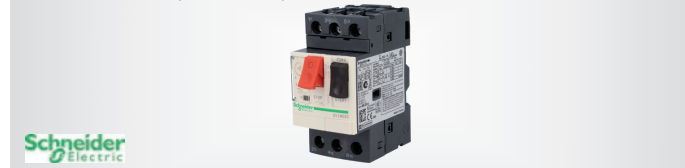
Manufacturer : PILZ
 Type of module : safety relay
 Mounting : for DIN rail mounting
 Safety category : 4
 Number of inputs : 3
 Number of outputs : 5
 Safety outputs : NO x3
 Auxiliary outputs : NC x1
 Signal output : transistor 24V DC
 Input properties : 2 channels with or without between-channels short circuit detection

Operating temperature : -10...55°C
 IP rating : IP40
 Application : emergency stop, safety gates and light beam devices
 Trade name : PNOZsigma
 Manufacturer series : PNOZ s4

Symbol	U _{sup} [V DC]	U _{sup} [V AC]	Electr. connect.	Body dim. [mm]
PZ-750104	24	-	screw terminals	98x22.5x120
PZ-751104	24	-	spring-loaded terminals	100x22.5x120
PZ-750134	48...240	48...240	screw terminals	98x22.5x120

Symbol	U _{sup} [V DC]	U _{sup} [V AC]	Electr. connect.	Body dim. [mm]
PZ-751134	48...240	48...240	spring-loaded terminals	100x22.5x120

Motor breaker; GV2ME; SCHNEIDER ELECTRIC



Manufacturer : SCHNEIDER ELECTRIC
 Type of protection : motor breaker
 Mounting : for DIN rail mounting
 Operating voltage : 230...690V AC
 Operating temperature : -20...60°C
 IP rating : IP20
 Manufacturer series : GV2ME

Symbol	Electrical connection	Max motor power [kW]	Overcurrent release [A]	Short circuit release [A]
GV2ME01	screw terminals	0.04	0.1...0.16	1.5
GV2ME02	screw terminals	0.06	0.16...0.25	2.4
GV2ME03	screw terminals	0.09	0.25...0.4	5
GV2ME04	screw terminals	0.12/0.18	0.4...0.63	8
GV2ME05	screw terminals	0.25	0.63...1	13
GV2ME06	screw terminals	0.37/0.55	1...1.6	22.5
GV2ME07	screw terminals	0.75	1.6...2.5	33.5
GV2ME08	screw terminals	1.1/1.5	2.5...4	51
GV2ME10	screw terminals	2.2	4...6.3	78
GV2ME14	screw terminals	3/4	6...10	138
GV2ME16	screw terminals	5.5	9...14	170
GV2ME20	screw terminals	7.5	13...18	223
GV2ME21	screw terminals	9	17...23	327
GV2ME22	screw terminals	11	20...25	327
GV2ME32	screw terminals	15	24...32	416
GV2ME073	spring-loaded terminals	0.75	1.6...2.5	33.5
GV2ME083	spring-loaded terminals	1.1/1.5	2.5...4	51
GV2ME103	spring-loaded terminals	2.2	4...6.3	78
GV2ME143	spring-loaded terminals	3/4	6...10	138
GV2ME146	spring-loaded terminals	3/4	6...10	138

Motor breaker; GV2P; SCHNEIDER ELECTRIC



Manufacturer : SCHNEIDER ELECTRIC
 Type of protection : motor breaker
 Mounting : for DIN rail mounting
 Operating voltage : 230...690V AC
 Electrical connection : screw terminals
 Operating temperature : -20...60°C
 IP rating : IP20
 Manufacturer series : GV2P

Symbol	Max motor power [kW]	Overcurrent release [A]	Short circuit release [A]
GV2P01	0.04	0.1...0.16	1.5
GV2P02	0.06	0.16...0.25	2.4
GV2P03	0.09	0.25...0.4	5
GV2P04	0.12/0.18	0.4...0.63	8
GV2P05	0.25	0.63...1	13
GV2P06	0.37/0.55	1...1.6	22.5
GV2P07	0.75	1.6...2.5	33.5
GV2P08	1.1	2.5...4	51
GV2P10	2.2	4...6.3	78
GV2P14	3	6...10	138
GV2P16	5.5	9...14	170
GV2P20	7.5	13...18	223
GV2P21	9	17...23	327
GV2P22	11	20...25	327

Motor breaker; 3RV2; SIEMENS



Manufacturer : SIEMENS
 Type of protection : motor breaker
 Mounting : for DIN rail mounting
 Manufacturer series : 3RV2

Symbol	Size	Max motor power [kW]	Overcurrent release [A]	Short circ. release [A]	Auxiliary contacts
3RV2011-0KA10	S00	0.37	0.9...1.25	16	-
3RV2011-1AA10	S00	0.55	1.1...1.6	21	-
3RV2011-1BA10	S00	0.75	1.4...2	26	-
3RV2011-1CA10	S00	0.75	1.8...2.5	33	-
3RV2011-1DA10	S00	1.1	2.2...3.2	42	-
3RV2011-1EA10	S00	1.5	2.8...4	52	-
3RV2011-1FA10	S00	1.5	3.5...5	65	-
3RV2011-1GA10	S00	2.2	4.5...6.3	82	-
3RV2011-1HA10	S00	3	5.5...8	104	-
3RV2011-1JA10	S00	4	7...10	130	-
3RV2011-1KA10	S00	5.5	9...12.5	163	-
3RV2011-4AA10	S00	7.5	10...16	208	-
3RV2021-0KA10	S0	0.37	0.9...1.25	16	-
3RV2021-1AA10	S0	0.55	1.1...1.6	21	-
3RV2021-1BA10	S0	0.75	1.4...2	26	-
3RV2021-1CA10	S0	0.75	1.8...2.5	33	-
3RV2021-1DA10	S0	1.1	2.2...3.2	42	-
3RV2021-1EA10	S0	1.5	2.8...4	52	-
3RV2021-1FA10	S0	1.5	3.5...5	65	-
3RV2021-1GA10	S0	2.2	4.5...6.3	82	-
3RV2021-1HA10	S0	3	5.5...8	104	-
3RV2021-1JA10	S0	4	7...10	130	-
3RV2021-1KA10	S0	5.5	9...12.5	163	-
3RV2021-4AA10	S0	7.5	10...16	208	-
3RV2011-0KA15	S00	0.37	0.9...1.25	16	NO + NC
3RV2011-1AA15	S00	0.55	1.1...1.6	21	NO + NC
3RV2011-1BA15	S00	0.75	1.4...2	26	NO + NC
3RV2011-1CA15	S00	0.75	1.8...2.5	33	NO + NC
3RV2011-1DA15	S00	1.1	2.2...3.2	42	NO + NC
3RV2011-1EA15	S00	1.5	2.8...4	52	NO + NC
3RV2011-1FA15	S00	1.5	3.5...5	65	NO + NC
3RV2011-1GA15	S00	2.2	4.5...6.3	82	NO + NC
3RV2011-1HA15	S00	3	5.5...8	104	NO + NC
3RV2011-1JA15	S00	4	7...10	130	NO + NC
3RV2011-1KA15	S00	5.5	9...12.5	163	NO + NC
3RV2011-4AA15	S00	7.5	11...16	208	NO + NC

Circuit breaker; B; iC60N; SCHNEIDER ELECTRIC



Manufacturer : SCHNEIDER ELECTRIC
 Type of protection : circuit breaker
 Manufacturer series : iC60N
 Mounting : for DIN rail mounting
 Characteristics : B
 Short circuit breaking capacity : 6kA
 Cross sec. of conn. wires : 1...25mm²
 Operating temperature : -35...70°C
 IP rating : IP20
 Conform to the norm : IEC EN 60898-1
 Trade name : ACTI9, MCB

Symbol	I _{nom} [A]	U _{rated} [V AC]	Poles no.	Symbol	I _{nom} [A]	U _{rated} [V AC]	Poles no.
A9F03106	6	230	1	A9F03120	20	230	1
A9F03306	6	400	3	A9F03320	20	400	3
A9F03110	10	230	1	A9F03125	25	230	1
A9F03310	10	400	3	A9F03325	25	400	3
A9F03116	16	230	1	A9F03132	32	230	1
A9F03316	16	400	3	A9F03332	32	400	3

Circuit breaker; C; S200; ABB

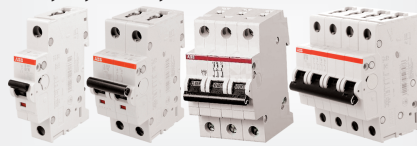


Manufacturer : ABB
 Manufacturer series : S200
 Type of protection : circuit breaker
 Mounting : for DIN rail mounting
 Rated voltage : 230/400V AC
 Characteristics : C
 Short circuit breaking capacity : 6kA
 Cross sec. of conn. wires : 1...25mm²
 Electrical life : 20000 cycles
 Operating temperature : -25...55°C
 IP rating : IP20
 Conform to the norm : IEC EN 60898, IEC EN 60947-2

Works with : S2C-H11L
 Trade name : MCB

Symbol	I _{nom} [A]	Number of poles	Symbol	I _{nom} [A]	Number of poles
S201-C6	6	1	S201-C20	20	1
S203-C6	6	3	S203-C20	20	3
S201-C10	10	1	S201-C25	25	1
S203-C10	10	3	S203-C25	25	3
S201-C16	16	1	S201-C32	32	1
S203-C16	16	3	S203-C32	32	3

Circuit breaker; B; S200; ABB



Manufacturer : ABB
 Type of protection : circuit breaker
 Manufacturer series : S200
 Mounting : for DIN rail mounting
 Rated voltage : 230/400V AC
 Characteristics : B
 Short circuit breaking capacity : 6kA
 Cross sec. of conn. wires : 1...25mm²
 Electrical life : 20000 cycles
 Operating temperature : -25...55°C
 IP rating : IP20
 Conform to the norm : IEC EN 60898, IEC EN 60947-2

Works with : S2C-H11L
 Trade name : MCB

Symbol	Cur. rat. [A]	Number of poles	Symbol	Cur. rat. [A]	Number of poles
S201-B6	6	1	S203-B6	6	3
S201-B10	10	1	S203-B10	10	3
S201-B16	16	1	S203-B16	16	3
S201-B20	20	1	S203-B20	20	3
S201-B25	25	1	S203-B25	25	3
S201-B32	32	1	S203-B32	32	3

Circuit breaker; iC60N; SCHNEIDER ELECTRIC



Manufacturer : SCHNEIDER ELECTRIC
 Type of protection : circuit breaker
 Manufacturer series : iC60N
 Mounting : for DIN rail mounting
 Short circuit breaking capacity : 6kA
 Cross sec. of conn. wires : 1...25mm²
 Operating temperature : -35...70°C
 IP rating : IP20
 Conform to the norm : IEC EN 60898-1
 Trade name : ACTI9, MCB

Symbol	Poles no.	Characteristics	I _{nom} [A]	U _{rated} [V AC]
A9F04106	1	C	6	230

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Fuses and circuit breakers

Circuit breaker; iC60N; SCHNEIDER ELECTRIC (cont.)

Symbol	Poles no.	Characteristics	I _{nom} [A]	U _{rated} [V AC]
A9F04110	1	C	10	230
A9F04116	1	C	16	230
A9F04120	1	C	20	230
A9F04125	1	C	25	230
A9F04132	1	C	32	230
A9F04306	3	C	6	400
A9F04310	3	C	10	400
A9F04316	3	C	16	400
A9F04320	3	C	20	400
A9F04325	3	C	25	400
A9F04332	3	C	32	400

RCD breaker; type A; F200; ABB



ABB
 Manufacturer : ABB
 Type of protection : RCD breaker
 Kind of circuit breaker : type A
 Mounting : for DIN rail mounting
 Short circuit breaking capacity : 10kA
 Max surge current : 5000A
 Cross sec. of conn. wires : 1...25mm²
 Electrical life : 10000 cycles
 Mechanical durability : 20000 cycles
 Operating temperature : -25...55°C
 IP rating : IP20
 Conform to the norm : IEC EN 61008
 Manufacturer series : F200
 Trade name : RCD

Symbol	Residual current [mA]	Cur. rat. [A]	Number of poles
F202A-16/0.01	10	16	2
F202A-25/0.03	30	25	2
F202A-40/0.03	30	40	2
F202A-40/0.1	100	40	2
F204A-25/0.03	30	25	4
F204A-40/0.03	30	40	4
F204A-40/0.3	300	40	4
F204A-63/0.3	300	63	4

RCD breaker; type A; IDK; SCHNEIDER ELECTRIC



Schneider Electric
 Manufacturer : SCHNEIDER ELECTRIC
 Type of protection : RCD breaker
 Kind of circuit breaker : type A
 Mounting : for DIN rail mounting
 Electrical life : 2000 cycles
 Mechanical durability : 5000 cycles
 Cross sec. of conn. wires : 1...25mm²
 Operating temperature : -25...40°C
 IP rating : IP20
 Conform to the norm : IEC EN 61008-1
 Manufacturer series : IDK
 Trade name : ACTI9, RCD

Symbol	Residual current [mA]	Cur. rat. [A]	Number of poles
A9Z01225	30	25	2
A9Z01240	30	40	2
A9Z01425	30	25	4
A9Z01440	30	40	4
A9Z01463	30	63	4
A9Z04440	300	40	4
A9Z04463	300	63	4

RCD breaker; type A; iID; SCHNEIDER ELECTRIC



Schneider Electric
 Manufacturer : SCHNEIDER ELECTRIC
 Type of protection : RCD breaker
 Kind of circuit breaker : type A
 Mounting : for DIN rail mounting
 Cross sec. of conn. wires : 1...25mm²
 Mechanical durability : 20000 cycles
 Operating temperature : -25...60°C
 IP rating : IP20
 Conform to the norm : IEC EN 61008-1
 Manufacturer series : iID
 Trade name : ACTI9, RCD

Symbol	Residual current [mA]	Cur. rat. [A]	Number of poles
A9Z20216	10	16	2
A9Z21225	30	25	2
A9Z21425	30	25	4
A9Z21240	30	40	2
A9Z21440	30	40	4
A9Z21263	30	63	2
A9Z21491	30	100	4
A9Z22240	100	40	2
A9Z24425	300	25	4
A9Z25263	300	63	2
A9Z24491	300	100	4

RCD breaker; type AC; IDK; SCHNEIDER ELECTRIC



Schneider Electric
 Manufacturer : SCHNEIDER ELECTRIC
 Type of protection : RCD breaker
 Kind of circuit breaker : type AC
 Mounting : for DIN rail mounting
 Electrical life : 2000 cycles
 Mechanical durability : 5000 cycles
 Cross sec. of conn. wires : 1...25mm²
 Operating temperature : -5...40°C
 IP rating : IP20
 Conform to the norm : IEC EN 61008-1
 Manufacturer series : IDK
 Trade name : ACTI9, RCD

Symbol	I _{nom} [A]	I _{res.} [mA]	Number of poles	Symbol	I _{nom} [A]	I _{res.} [mA]	Number of poles
A9Z05225	25	30	2	A9Z05463	63	30	4
A9Z05240	40	30	2	A9Z06440	40	300	4
A9Z05425	25	30	4	A9Z06463	63	300	4
A9Z05440	40	30	4				

RCD breaker; type AC; iID; SCHNEIDER ELECTRIC



Schneider Electric
 Manufacturer : SCHNEIDER ELECTRIC
 Type of protection : RCD breaker
 Kind of circuit breaker : type AC
 Mounting : for DIN rail mounting
 Cross sec. of conn. wires : 1...25mm²
 Operating temperature : -5...60°C
 IP rating : IP20
 Mechanical durability : 20000 cycles
 Conform to the norm : IEC EN 61008-1
 Manufacturer series : iID
 Trade name : ACTI9, RCD

Symbol	Cur. rat. [A]	Residual current [mA]	Number of poles
A9Z10225	25	10	2

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RCD breaker; type AC; IID; SCHNEIDER ELECTRIC (cont.)

Symbol	Cur. rat. [A]	Residual current [mA]	Number of poles
A9Z11240	40	30	2
A9Z11440	40	30	4
A9Z11263	63	30	2
A9Z11463	63	30	4
A9Z11480	80	30	4

Safety relay; SENTRY; ABB



Manufacturer : ABB
 Manufacturer series : SENTRY
 Type of module : safety relay
 Family : Jokab Safety
 Mounting : for DIN rail mounting
 Safety category : 4
 IP rating : IP20
 Electr. connect. : screw terminals
 Operating temperature : -10...55°C

Symbol	Safety outputs	U _{sup} [V DC]	U _{sup} [V AC]	Actuat. delay [s]
2TLA010040R0000	NC x1, NO x3	24	-	-
2TLA010041R0600	NC x1, NO x4	24	-	-
2TLA010040R0200	NO x4	24	-	-
2TLA010050R0000	NC x1, NO x3	24	-	-
2TLA010050R0100	NC x1, NO x3	120...375	85...265	-
2TLA010051R0000	NC x1, NO x3	24	-	-
2TLA010052R0400	NO delay on x2, NO x2	24	-	0.5
2TLA010053R0400	NO delay on x2, NO x2	24	-	1.5
2TLA010061R0000	NC x1, NO x3	24	-	0.5...1.5
2TLA010070R0000	NC x1, NO x3	24	-	0...999
2TLA010070R0400	NO delay on x2, NO x2	24	-	0...999
2TLA010051R0100	NC x1, NO x3	120...375	85...265	-
2TLA010060R0000	NC x1, NO x3	24	-	0...999

Symbol	IN1 properties	Application
2TLA010040R0000	1 channel	-
2TLA010040R0200	1 channel	-
2TLA010050R0000	1 channel; 2 channel; OSSD	-
2TLA010050R0100	2 channel	-
2TLA010051R0000	-	two-hand control
2TLA010052R0400	1 channel; 2 channel; OSSD	-
2TLA010053R0400	1 channel; 2 channel; OSSD	-
2TLA010061R0000	1 channel; 2 channel; OSSD	-
2TLA010070R0000	1 channel; 2 channel; OSSD	two-hand control
2TLA010070R0400	1 channel; 2 channel; OSSD	two-hand control
2TLA010051R0100	2 channel	two-hand control
2TLA010060R0000	1 channel	-

Fuse accessories; LITTELFUSE



Symbol	U _{rated} [V]	Fuse accessories	I _{max} [A]	Mounting	Fuse size [mm]
03450101HX020	600	adapter	15	-	6.3x32
03450121HX020	600	adapter	15	-	5x20
81500000005	250	adapter	6.3	-	5x20
81600000005	250	adapter	10	-	6.3x32
83500000005	250	adapter	6.3	-	5x20
01500322H	500	fuse holder	15	THT	6.3x32
03450101H	600	fuse holder	15	THT	6.3x32
03450101HX010	600	fuse holder	15	THT	5x20, 6.3x32
03450121H	600	fuse holder	15	THT	5x20
03450601H	250	fuse holder	16	on panel	6.3x32
03450603H	250	fuse holder	16	on panel	6.3x32
03450611H	250	fuse holder	16	on panel	6.3x32
03450613H	250	fuse holder	16	on panel	6.3x32
03450621H	250	fuse holder	16	on panel	5x20
03450623H	250	fuse holder	16	on panel	5x20
03450631H	250	fuse holder	16	on panel	5x20
03453LF1H	250	fuse holder	10	on panel	6.3x32
03455LF1H	250	fuse holder	10	on panel	5x20
03540801ZXGY	300	fuse holder	15	THT	6.3x32
64600001003	250	fuse holder	6.3	THT	5x20
80000000005	250	fuse holder	6.3	on panel	5x20, 6.3x32
81100000005	250	fuse holder	6.3	THT	5x20, 6.3x32

Symbol	U _{rated} [V]	Fuse accessories	I _{max} [A]	Mounting	Fuse size [mm]
82000000005	250	fuse holder	6.3	on panel	5x20
83100000005	250	fuse holder	6.3	THT	5x20

Fuse accessories; ETI POLAM

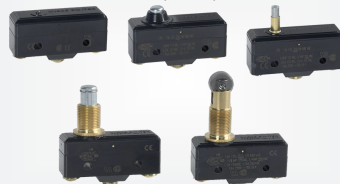


Manufacturer : ETI POLAM

Symbol	Current rating [A]	Fuse accessories	Fuse size [mm]	Size
001690870	160	fuse-switch disconnector	-	NH00
001690872	250	fuse-switch disconnector	-	NH1
001690873	400	fuse-switch disconnector	-	NH2
001690874	630	fuse-switch disconnector	-	NH3
001690890	160	fuse-switch disconnector	-	NH00
002221011	25	fuse base	-	D01
002221012	25	fuse base	-	D01
002222011	63	fuse base	-	D02
002222012	63	fuse base	-	D02
002261001	6	fuse disconnector	-	D01
002261002	10	fuse disconnector	-	D01
002261003	16	fuse disconnector	-	D01
002261011	6	fuse disconnector	-	D01
002261012	10	fuse disconnector	-	D01
002261013	16	fuse disconnector	-	D01
002271001	63	fuse disconnector	-	D02
002271002	63	fuse disconnector	-	D02
002271003	63	fuse disconnector	-	D02
002271004	63	fuse disconnector	-	D02
002271005	63	fuse disconnector	-	D02
002510011	16	fuse base	-	D01
002510013	16	fuse base	-	D01
002510021	63	fuse base	-	D02
002510023	63	fuse base	-	D02
002520001	20	fuse disconnector	8x31	-
002520004	20	fuse disconnector	8x31	-
002540001	32	fuse disconnector	10.3x38	-
002540004	32	fuse disconnector	10.3x38	-
002540201	25	fuse disconnector	10.3x38	-
002540203	25	fuse disconnector	10.3x38	-
002560001	50	fuse disconnector	14x51	-
002560004	50	fuse disconnector	14x51	-
002570001	100	fuse disconnector	22x58	-
002570004	100	fuse disconnector	22x58	-
004121300	160	fuse base	-	NH00
004121400	250	fuse base	-	NH1
004121500	400	fuse base	-	NH2
004121600	630	fuse base	-	NH3
004122006	1.25k	fuse base	-	NH4
004122025	250	fuse base	-	NH4
004123000	160	fuse base	-	NH00
004123001	160	fuse base	-	NH00
004123100	250	fuse base	-	NH1
004123200	400	fuse base	-	NH2
004131200	160	fuse base	-	NH00
004131213	160	fuse base	-	NH00
004131300	250	fuse base	-	NH1
004131400	400	fuse base	-	NH2
004131500	630	fuse base	-	NH3
004132100	160	fuse base	-	NH00
004132200	250	fuse base	-	NH1
004132300	400	fuse base	-	NH2
004132400	630	fuse base	-	NH3

Switches and indicators

Microswitch SNAP ACTION; BZ; HONEYWELL



Manufacturer : HONEYWELL
 Body dimensions : 49.3x17.5x24.1mm
 Operating temperature : -55...85°C
 Type of switch : microswitch SNAP ACTION
 Contacts layout : SPDT
 Stabl.pos. : 1

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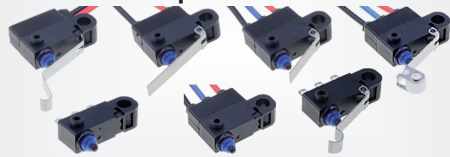
Switches and indicators

Microswitch SNAP ACTION; BZ; HONEYWELL (cont.)

Symbol	AC load rating @R*	Features	Leads
BZ-2R-A2	15A / 250V AC	without lever	M4 screws
BZ-2RD-A2	15A / 250V AC	with pin	M4 screws
BZ-2RW80-A2	15A / 250V AC	with lever	M4 screws
BZ-2RW822-A2	15A / 250V AC	with lever (with roller)	M4 screws
BZ-2RS	15A / 250V AC	with pin	screw
BZ-RSX	15A / 250V AC	without lever	screw
BZ-R	15A / 250V AC	without lever	screw
BZ-2RQ1-D682	15A / 480V AC	without lever	screw
BZ-2RQ66	15A / 600V AC	without lever	screw
BZ-7RW80189-A2	15A / 250V AC	with lever with roller simulation	screw
BZ-R-A2	15A / 250V AC	without lever	screw
BZ-RMX	15A / 480V AC	with lever	screw
BZ-2R	15A / 125V AC	without lever	screw
BZ-2RQ1	15A / 125V AC	with pin	screw

* at resistive load

Microswitch SNAP ACTION; D2HW-C; OMRON Electronic Components



Manufacturer : OMRON Electronic Components
 Type of switch : microswitch SNAP ACTION
 Body dimensions : 18.5x5.3x6.5mm
 Operating temperature : -40...85°C
 AC load rating @R* : 0.1A / 125V AC
 DC load rating @R* : 2A / 12V DC
 IP rating : IP67

* at resistive load

Symbol	Features	Leads	Contacts layout
D2HW-C201H	without lever	for soldering	SPDT
D2HW-C201M	without lever	downwards, cables	SPDT
D2HW-C202MRS	without lever	cables, on right	SPST-NC
D2HW-C203MR	without lever	cables, on right	SPST-NO
D2HW-C211H	with lever	for soldering	SPDT
D2HW-C211M	with lever	downwards, cables	SPDT
D2HW-C212MR	with lever	cables, on right	SPST-NC
D2HW-C213M	with lever	downwards, cables	SPST-NO
D2HW-C222MR	with lever	cables, on right	SPST-NC
D2HW-C223MR	with lever	cables, on right	SPST-NO
D2HW-C232MR	with lever with roller simulation	cables, on right	SPST-NC
D2HW-C261H	with lever	for soldering	SPDT
D2HW-C263MR	with lever	cables, on right	SPST-NO
D2HW-C271M	with lever with roller simulation	downwards, cables	SPDT

Microswitch SNAP ACTION; D2F; OMRON Electronic Components



Manufacturer : OMRON Electronic Components
 Type of switch : microswitch SNAP ACTION
 Contacts layout : SPDT
 Body dimensions : 12.8x5.8x6mm
 Operating temperature : -25...85°C
 IP rating : IP40

Switch. method* : ON-(ON)

* the position in bracket indicates momentary position.

Symbol	DC load rating @R*	AC load rating @R*	Features
D2F-01-D	0.1A / 30V DC	3A / 125V AC	without lever
D2F-01FL	0.1A / 30V DC	1A / 125V AC	with lever
D2F-01FL-D	0.1A / 30V DC	1A / 125V AC	with lever
D2F-01L	0.1A / 30V DC	3A / 125V AC	with lever
D2F-01L2	0.1A / 30V DC	3A / 125V AC	with lever (with roller)
D2F-01L3	0.1A / 30V DC	3A / 125V AC	with lever with roller simulation
D2F-L-A	2A / 30V DC	3A / 125V AC	with lever
D2F-L-A1	2A / 30V DC	3A / 125V AC	with lever
D2F-L-D3	2A / 30V DC	3A / 125V AC	with lever
D2F-F	0.5A / 30V DC	1A / 125V AC	without lever
D2F-FL3	0.5A / 30V DC	1A / 125V AC	with lever with roller simulation
D2F-FL-D	0.5A / 30V DC	1A / 125V AC	with lever

* at resistive load

Microswitches SNAP ACTION, D3V series



Type of switch : microswitch SNAP ACTION

Leads:

— for soldering (D3V-01xxxA3, D3V-1xx-1A5)

— connectors (D3V-01-1C3, D3V-01-2C2, D3V-012-1C3, D3V-111-1C5, D3V-113-1C4, D3V-113-1C5, D3V-16xxx)

Body dimensions:

— 27.8x10.3x15.9mm

Leads dimensions:

— 4.75x0.5mm (D3V-16-1C24, D3V-16-1C25, D3V-163-1A5, D3V-165-1A5)

— 6.3x0.8mm (D3V-01-1C3, D3V-163-1C5, D3V-165-1C5)

— 6.35x0.8mm (D3V-012-1C3, D3V-01-2C2, D3V-111-1C5, D3V-113-1C4, D3V-113-1C5)

DC load rating @R*:

— 0.1A / 30V DC (D3V-01xxx)

— 6A / 30V DC (D3V-11xxx)

— 10A / 30V DC (D3V-16xxx)

AC load rating @R*:

— 0.1A / 125V AC (D3V-01xxx)

— 11A / 250V AC (D3V-11xxx)

— 16A / 250V AC (D3V-16xxx)

* at resistive load

Symbol	Contacts layout	Switch. method*	Features	Lever length [mm]
D3V-01-1A3	SPDT	ON-(ON)	without lever	-
D3V-01-1C3	SPDT	ON-(ON)	without lever	-
D3V-012-1C3	SPDT	ON-(ON)	with lever	27.5
D3V-012-2A3	SPST-NC	ON-(OFF)	with lever	27.5
D3V-01-2A3	SPST-NC	ON-(OFF)	without lever	-
D3V-01-2C2	SPST-NC	ON-(OFF)	without lever	-
D3V-111-1C5	SPDT	ON-(ON)	with short lever	14
D3V-11-1A5	SPDT	ON-(ON)	without lever	-
D3V-113-1C4	SPDT	ON-(ON)	with lever	51.3
D3V-113-1C5	SPDT	ON-(ON)	with lever	51.3
D3V-16-1C24	SPDT	ON-(ON)	without lever	-
D3V-16-1C25	SPDT	ON-(ON)	without lever	-
D3V-163-1A5	SPDT	ON-(ON)	with lever	50.9
D3V-163-1C5	SPDT	ON-(ON)	with lever	50.9
D3V-165-1A5	SPDT	ON-(ON)	with lever (with roller)	11.6
D3V-165-1C5	SPDT	ON-(ON)	with lever (with roller)	11.6

* the position in bracket indicates momentary position.

Microswitch SNAP ACTION; SS; OMRON Electronic Components



Manufacturer : OMRON Electronic Components

Type of switch : microswitch SNAP ACTION

Body dimensions : 19.8x6.4x10.2mm

Operating temperature : -25...85°C

IP rating : IP40

Leads dimensions (SS-5xxxT):

— 2.8x0.5mm

Contacts layout : SPDT

Switch. method* : ON-(ON)

* the position in bracket indicates momentary position.

Symbol	AC load rating @R*	Operating Force [N]	Features
SS-01GL2-F	0.1A / 125V AC	0.49	with lever (with roller)
SS-10GL	10A / 250V AC	1.47	with lever
SS-5	5A / 125V AC	1.47	without lever
SS-5-F	5A / 125V AC	0.49	without lever
SS-5GL	5A / 125V AC	1.47	with lever
SS-5GL13T	5A / 125V AC	1.47	with lever with roller simulation
SS-5GL2D	5A / 125V AC	1.47	with lever (with roller)
SS-5GL2T	5A / 125V AC	1.47	with lever (with roller)
SS-5GLD	5A / 125V AC	1.47	with lever
SS-5T	5A / 125V AC	1.47	without lever
SS-5GL-FT	5A / 250V AC	0.49	with lever

cont. on the next page

Microswitch SNAP ACTION; SS; OMRON Electronic Components (cont.)

Symbol	AC load rating @R*	Operating Force [N]	Features
SS5GL111	3A / 250V AC	1.47	with lever
SS-5GL13D	5A / 250V AC	1.47	with lever with roller simulation
SS-5GL2-F	5A / 250V AC	0.49	with lever (with roller)

* at resistive load

Lever length	: 3.9mm
Body dimensions	: 12.8x5.8x6.6mm
Contacts layout	: SPDT
Switch. method*	: ON-(ON)

* the position in bracket indicates momentary position.

Leads : for PCB

Symbol	AC load rating @R*	Leads
ZMA00A150L04PC	0.1A / 125V AC	straight
ZMA00A150L04RC	0.1A / 125V AC	angled, right
ZMA03A150L04PC	3A / 125V AC	straight

* at resistive load

Microswitch SNAP ACTION; D2HW-A; OMRON Electronic Components



OMRON

Manufacturer	: OMRON Electronic Components
Type of switch	: microswitch SNAP ACTION
Contacts layout	: SPDT
Switch. method*	: ON-(ON)
Body dimensions	: 13.3x5.3x6.5mm
Operating temperature	: -40...85°C
IP rating	: IP67
AC load rating @R**	: 0.1A / 125V AC
DC load rating @R**	: 2A / 12V DC
Pitch	: 5.08mm
Manufacturer series	: D2HW-A

* the position in bracket indicates momentary position.
 ** at resistive load

Symbol	Features	Lever length [mm]	Leads
D2HW-A201D	without lever	-	for PCB
D2HW-A211D	with lever	13	for PCB
D2HW-A221D	with lever	20	for PCB
D2HW-A231D	with lever with roller simulation	15	for PCB
D2HW-A211DL	with lever	13	for PCB, angled, left

Microswitch SNAP ACTION; D2HW-B; OMRON Electronic Components



OMRON

Manufacturer	: OMRON Electronic Components
Type of switch	: microswitch SNAP ACTION
Body dimensions	: 13.3x5.3x6.5mm
Operating temperature	: -40...85°C
IP rating	: IP67
AC load rating @R*	: 0.1A / 125V AC
DC load rating @R*	: 2A / 12V DC
Operating Force	: 0.75N

* at resistive load

Symbol : D2HW-BL233M

Lead length : 300mm

Symbol	Contacts layout	Leads	Features
D2HW-BL201DL	SPDT	for PCB, angled, left	without lever
D2HW-BL201H	SPDT	for soldering	without lever
D2HW-BL211H	SPDT	for soldering	with lever
D2HW-BL221DL	SPDT	for PCB, angled, right	with lever
D2HW-BL233M	SPST-NO	downwards, cables	with lever with roller simulation
D2HW-BL271H	SPDT	for soldering	with lever with roller simulation
D2HW-BR201DR	SPDT	for PCB, angled, right	without lever
D2HW-BR201H	SPDT	for soldering	without lever
D2HW-BR211DR	SPDT	for PCB, angled, right	with lever
D2HW-BR271D	SPDT	for PCB, straight	with lever with roller simulation

Microswitch SNAP ACTION; ZMA; C&K



Manufacturer	: C&K
Type of switch	: microswitch SNAP ACTION
Mechanical durability	: 1000000 cycles
Operating temperature	: -40...85°C
Features	: with lever
Operating Force	: 1.5N

Switch: ROCKER; OMRON Electronic Components



OMRON

Manufacturer	: OMRON Electronic Components
Type of switch	: ROCKER
Max. contact resistance	: 100mΩ
Switch. method*	: ON-OFF
Min. insulation resistance	: 100MΩ
IP rating	: IP40
Mounting	: on panel
Operating temperature	: -20...55°C
AC load rating @R**	: 10A / 250V AC
Electrical life	: 10000 cycles
Mechanical durability	: 50000 cycles
Manufacturer series	: A8L

* the position in bracket indicates momentary position.

** at resistive load

Symbol	Contacts layout	Leads	Button marking	Leads dimensions [mm]
A8L-11-11N1	SPST	for soldering	blank	-
A8L-11-11N2	SPST	for soldering	O-I	-
A8L-11-11N3	SPST	for soldering	O-I	-
A8L-11-13N2	SPST	angled, terminal	O-I	-
A8L-11-15N1	SPST	connectors	blank	4.8x0.8
A8L-11-15N2	SPST	connectors	O-I	4.8x0.8
A8L-21-11N1	DPST	for soldering	blank	-
A8L-21-11N2	DPST	for soldering	O-I	-
A8L-21-12N2	DPST	terminal	O-I	-
A8L-21-12N6	DPST	terminal	ON-OFF	-
A8L-21-13N1	DPST	angled, terminal	blank	-
A8L-21-13N2	DPST	angled, terminal	O-I	-
A8L-21-15N3	DPST	connectors	O-I	4.8x0.8

Switch: ROCKER; E-SWITCH



E-SWITCH

Manufacturer	: E-SWITCH
Type of switch	: ROCKER

Mounting: — on panel

Symbol	AC contacts rating @R*	Contacts layout	Mounting hole diameter [mm]
RR111C1121	10A / 250V AC	SPST-NO	Ø20
RR3130ABLKBKFS	6A / 250V AC	SPST-NC	Ø18.2
RR511D1121	10A / 250V AC	SPST-NO	Ø21

* at resistive load

Switch: ROCKER; RD1; E-SWITCH



E-SWITCH

Manufacturer	: E-SWITCH
Type of switch	: ROCKER
Operating temperature	: -20...125°C
Mounting	: on panel
Leads	: connectors
Switch. method*	: OFF-ON

cont. on the next page

Switch: ROCKER; RD1; E-SWITCH (cont.)

Contacts layout : SPST
 Max. contact resistance: : 35mΩ
 Min. insulation resistance: : 100MΩ
 Electrical life : 10000 cycles
 Mounting hole diameter : 19.2x6.8mm
 * the position in bracket indicates momentary position.

Symbol AC contacts rating @R*

RD11131121 6A / 250V AC

RD1113112R 6A / 250V AC

* at resistive load

Application : DC Brushless tools
 Operating voltage : 42V DC
 Operating temperature : -20...65°C
 Features : two switches;
 with potentiometer

Body dimensions : 56x16x32.7mm

Symbol Switch. method*

C3AW-1A-8F OFF-(ON), ON-ON

* the position in bracket indicates momentary position.

Switch: ROCKER; CW; NKK SWITCHES



Manufacturer : NKK SWITCHES
 Type of switch : ROCKER
 AC contacts rating @R* : 6A / 250V AC
 Operating temperature : -10...70°C
 Electrical life : 10000 cycles
 Max. contact resistance: : 20mΩ
 Stable positions number : 2
 Mechanical durability : 30000 cycles
 Min. insulation resistance : 500MΩ
 Contact material : brass
 Body material : polyamide
 Mounting : on panel, SNAP-IN
 Button shape : rectangular

* at resistive load

Symbol Switch. method* Contacts layout Body dimensions [mm]

CWSA11AAN2S ON-OFF SPST 20.8x14.8x15.6

CWSA12AANS ON-ON SPDT 20.8x14.8x15.6

CWSB11AA1F ON-OFF SPST 21.1x15.1x16.2

* the position in bracket indicates momentary position.

Leads dimensions (**CWSB11AA1F**):

— 4.75x0.8mm

Switch: push-button; flat; RMQ-Titan; EATON ELECTRIC



Manufacturer : EATON ELECTRIC
 Type of switch : push-button
 Button shape : flat
 Mounting hole : Ø22.5mm
 Illumination : M22-FLED, M22-LED
 Operating temperature : -25...70°C
 IP rating : IP67
 Caution! : Illuminating unit has to be ordered separately;
 Contact sets must be ordered separately.

Switch standard : 22mm

Symbol Positions Actuator colour Button marking Stable positions number

M22-DL-W 2 white blank 1

M22-DL-R 2 red blank 1

M22-DL-G 2 green blank 1

M22-DL-Y 2 yellow blank 1

M22-DL-B 2 blue blank 1

M22-DRL-W 2 white blank 2

M22-DRL-R 2 red blank 2

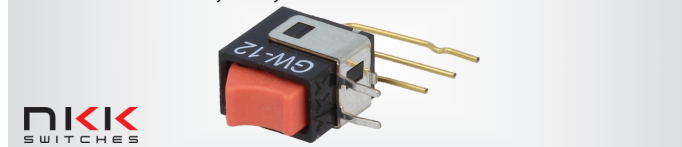
M22-DRL-G 2 green blank 2

M22-DRL-Y 2 yellow blank 2

M22-DRL-B 2 blue blank 2

Contact sets must be ordered separately.

Switch: ROCKER; GW; NKK SWITCHES



Manufacturer : NKK SWITCHES
 Type of switch : ROCKER
 Max. contact resistance: : 80mΩ
 Switch. method* : ON-ON
 Stable positions number : 2
 Min. insulation resistance : 500MΩ
 Mechanical durability : 50000 cycles
 Electrical life : 50000 cycles
 * the position in bracket indicates momentary position.

Symbol AC load rating DC load rating Body dim. Contacts layout @R* @R* [mm]

GW12LJHCF 0.01A / 28V AC 0.01A / 28V DC 7x7x4.5 SPDT

GW12RCP 0.1A / 28V AC 0.1A / 28V DC 4.5x7x7 SPDT

GW12RHH 0.01A / 28V AC 0.01A / 28V DC 7x7x4.5 SPDT

GW22LBP 0.01A / 28V AC 0.01A / 28V DC 7x7x4.5 DPDT

GW22LCH 0.1A / 28V AC 0.1A / 28V DC 7.5x7.68x5.15 DPDT

GW22LCP 0.01A / 28V AC 0.01A / 28V DC 7x7x4.5 DPDT

* at resistive load

Switch: vandal resistant; EAO; 82; Ø16mm



Cutout : Ø16mm
 Max. contact resistance: : 50mΩ
 Electrical life : 50000 cycles
 Contact material : silver
 IP rating : IP65, IP67
 Operating temperature : -30...70°C
 Contacts layout : SPDT
 DC contacts rating @R* : 3A / 240V DC
 AC contacts rating @R* : 3A / 240V AC
 Type of switch : vandal resistant

* at resistive load

Symbol Leads Switch. method* Backlight colour Ill. Body material [V]

82-4151.1113 for soldering ON-(ON) red 12 stainless steel

82-4151.1114 for soldering ON-(ON) red 24 stainless steel

82-4151.1123 for soldering ON-(ON) blue 12 stainless steel

82-4151.1133 for soldering ON-(ON) green 12 stainless steel

82-4151.2000 for soldering ON-ON - - stainless steel

82-4151.2113 for soldering ON-ON red 12 stainless steel

82-4151.2122 for soldering ON-ON blue 6 stainless steel

82-4151.2133 for soldering ON-ON green 12 stainless steel

* the position in bracket indicates momentary position.

Switch: push-button; OMRON Electronic Components



Manufacturer : OMRON Electronic Components
 Type of switch : push-button
 Key button colour : black
 Leads : leads x8
 Button shape : rounded
 Operating Force : 2N
 Mechanical durability : 300000 cycles

Switch: vandal resistant; ATP; C&K



Manufacturer : C&K

cont. on the next page

Switch: vandal resistant; ATP; C&K (cont.)

IP rating : IP67
 Operating temperature : -20...55°C
 DC contacts rating @R* : 3A / 28V DC
 AC contacts rating @R* : 5A / 250V AC
 Max. contact resistance: : 50mΩ
 Electrical life : 50000 cycles
 Mech. durability : 1000000 cycles
 Leads : for soldering

* at resistive load

Symbol	Contacts layout	Switch. method*	Cutout [mm]	Backlight colour
ATP190001	SPDT	(ON)-ON	Ø19	blue
ATP190002	SPDT	(ON)-ON	Ø19	yellow
ATP190003	SPDT	ON-ON	Ø19	red
ATP190004	DPDT	(ON)-ON	Ø19	green
ATP190005	DPDT	ON-ON	Ø19	green
ATP220001	SPDT	(ON)-ON	Ø22	red
ATP220002	SPDT	ON-ON	Ø22	blue

* the position in bracket indicates momentary position.

Switch: vandal resistant; E-SWITCH



Manufacturer : E-SWITCH
 Type of switch : vandal resistant
 Mounting : on panel
 Contacts layout: — SPST-NO
 Switch. method*:
 — OFF-(ON) (PV0H240SS, PV0H240SS-341, PV1F240SS, PV2xxx, PV6F240xxx1)
 — OFF-ON (PVA6LRxxx1)
 IP rating:
 — IP65 (PV0H240SS, PV0H240SS-341, PV1F240SS, PV2xxx, PV6F240xxx1)
 — IP67 (PVA6LRxxx1)
 Lead length (PVA6LRPW1141):
 — 500mm

* the position in bracket indicates momentary position.

Symbol	Leads	DC contacts rating @R*	Mounting hole [mm]
PV0H240SS	for soldering	2A / 36V DC	Ø12
PV0H240SS-341	for soldering	2A / 36V DC	Ø12
PV1F240SS	for soldering	2A / 36V DC	Ø19
PV2F240NN	for soldering	2A / 48V DC	Ø16
PV2F640SS	screw terminals	2A / 48V DC	Ø16
PV2S240NN	for soldering	2A / 48V DC	Ø16
PV6F240NN-3R1	for soldering	2A / 48V DC	Ø16
PV6F240SS-341	for soldering	2A / 48V DC	Ø16
PV6F240SS-3R1	for soldering	2A / 48V DC	Ø16
PVA6LRE21131	for soldering	2A / 36V DC	Ø16
PVA6LRE21141	for soldering	2A / 36V DC	Ø16
PVA6LRPW1141	cables	2A / 36V DC	Ø16

* at resistive load

Switch: vandal resistant; MSM II; SCHURTER

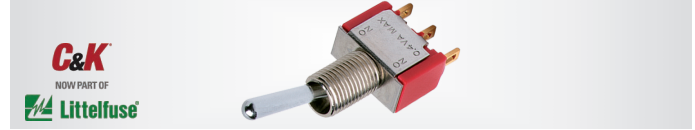


Manufacturer : SCHURTER
 Type of switch : vandal resistant
 Contacts layout: — SPDT

Symbol	Mounting hole [mm]	Illumination	AC load rating @R*	DC load rating @R*
3-145-122	Ø16	none	-	0.1A / 30V DC
3-145-273	Ø16	none	5A / 125V AC	-
3-145-514	Ø19	LED, point	5A / 125V AC	-
3-145-546	Ø22	LED, ring	-	0.1A / 30V DC
3-145-547	Ø22	LED, ring	5A / 125V AC	-

* at resistive load

Switch: toggle; 7000; C&K



Manufacturer : C&K
 Type of switch : toggle
 Body dim. : 12.7x6.86x8.89mm
 IP rating : IP40
 Min. insulation resistance : 1GΩ
 Max. contact resistance: : 10mΩ

Symbol	Contacts layout	Switch. method*	AC load rating @R**	Elect. life
7101K2CQE	SPDT	ON-ON	5A / 120V AC	100000 cycles
7101K2ZQE	SPDT	ON-ON	2A / 250V AC	100000 cycles
7101MD9ABE	SPDT	ON-ON	0.02A / 20V AC	100000 cycles
7101P3YZQE	SPDT	ON-ON	2A / 250V AC	100000 cycles
7101SYCQE	SPDT	ON-ON	2A / 250V AC	100000 cycles
7103SYCQE	SP3T	ON-OFF-ON	5A / 120V AC	40000 cycles
7105SYCQE	SP3T	(ON)-OFF-(ON)	5A / 120V AC	40000 cycles
7108SYZQE	SPDT	ON-(ON)	2A / 250V AC	40000 cycles
7201J51ZQE22	DPDT	ON-ON	5A / 120V AC	100000 cycles
7201K2ZQE	DPDT	ON-ON	2A / 250V AC	100000 cycles
7201MD9ABE	DPDT	ON-ON	0.02A / 20V AC	100000 cycles
7201MD9AV2BE	DPDT	ON-ON	0.02A / 20V AC	100000 cycles
7201SYCQE	DPDT	ON-ON	5A / 120V AC	100000 cycles
7201SYZBE	DPDT	ON-ON	0.02A / 20V AC	100000 cycles
7201SYZQE	DPDT	ON-ON	2A / 250V AC	100000 cycles

* the position in bracket indicates momentary position.

** at resistive load

Switch: toggle; A; NKK SWITCHES



Manufacturer : NKK SWITCHES
 Type of switch : toggle
 Min. insulation resistance : 500MΩ
 Max. contact resistance: : 50mΩ
 Operating temperature : -30...85°C
 Elect. life : 50000 cycles
 AC load rating @R* : 0.1A / 28V AC
 DC load rating @R* : 0.1A / 28V DC

* at resistive load

Symbol	Contacts layout	Switch. method*	Mech. durability	Body dim. [mm]
A18AH	SPDT	(ON)-OFF-(ON)	100000 cycles	13x10x5
A18AV	SPDT	(ON)-OFF-(ON)	100000 cycles	13x10x5
A18JH	SPDT	(ON)-OFF-(ON)	100000 cycles	13x10x5
A18KH	SPDT	(ON)-OFF-(ON)	100000 cycles	13x10x5
A12AB	SPDT	ON-OFF	50000 cycles	13x10x5
A12HP	SPDT	ON-OFF	50000 cycles	13x10x5
A12JP	SPDT	ON-OFF	50000 cycles	13x10x5
A12JV	SPDT	ON-OFF	50000 cycles	13x10x5
A19AP	SP3T	ON-OFF-(ON)	100000 cycles	5.84x9.8x13.1
A13JB	SPDT	ON-OFF-ON	100000 cycles	13x10x5
A13JP	SPDT	ON-OFF-ON	100000 cycles	13x10x5
A12AH	SPDT	ON-ON	50000 cycles	9.8x13.88x5

* the position in bracket indicates momentary position.

Switch: toggle; NKK SWITCHES



Manufacturer : NKK SWITCHES
 Type of switch : toggle
 Operating temperature : -30...85°C
 Min. insulation resistance : 1000MΩ
 Elect. life : 25000 cycles

Symbol	Contacts layout	Switch. method*	AC load rating @R**	Body dim. [mm]
M2011BB1W01	SPDT	ON-OFF	6A / 125V AC	7.9x13x9.4
M2015BB1W03	SPDT	ON-(ON)	3A / 250V AC	7.9x13x9.4
M2018TJW01	SPDT	(ON)-OFF-(ON)	6A / 125V AC	7.9x13x18.3
M2028SS4G03	DP3T	(ON)-OFF-(ON)	6A / 125V AC	17.5x13x18.3

* the position in bracket indicates momentary position.

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Switches and indicators

Switch: toggle; NKK SWITCHES (cont.)

** at resistive load

Switch: toggle; B; NKK SWITCHES

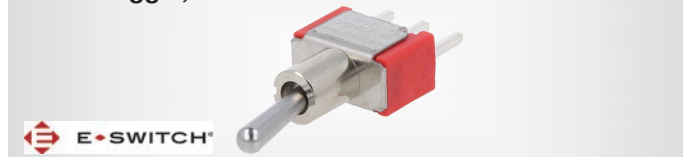


Manufacturer : NKK SWITCHES
 Type of switch : toggle
 Min. insulation resistance : 500MΩ
 Max. contact resistance : 50mΩ
 Electrical life : 50000 cycles
 Mech. durability:
 — 100000 cycles (B12AH, B12AV, B22LH, B23JH)
 — 50000 cycles (B19AB)
 Body dim.:
 — 6.8x8.8x13.1mm (B19AB)
 — 8x13.88x8.8mm (B12AV)
 — 13x9x7mm (B12AH)
 — 13x9x9mm (B22LH, B23JH)

Symbol	Contacts layout	Switch. method*	AC load rating @R**	DC load rating @R**
B12AH	SPDT	ON-ON	0.01A / 28V AC	0.01A / 28V DC
B12AV	SPDT	ON-ON	0.1A / 28V AC	0.1A / 28V DC
B19AB	SP3T	ON-OFF-(ON)	0.1A / 28V AC	0.1A / 28V DC
B22LH	DPDT	ON-ON	0.01A / 28V AC	0.01A / 28V DC
B23JH	DPDT	ON-OFF-ON	0.01A / 28V AC	0.01A / 28V DC

* the position in bracket indicates momentary position.
 ** at resistive load

Switch: toggle; E-SWITCH



Manufacturer : E-SWITCH
 Type of switch : toggle
 Electrical life:
 — 40000 cycles (100DP1T1B1M1QE, 100SP1T2B4M6QE, 100SP3T1B1M1QE)
 — 50000 cycles (100SP1T1B4M2QE)
 — 30000 cycles (200MSPxxxQE)

Symbol	AC load rating @R*	DC load rating @R*	Switch. method**	Contacts layout
100DP1T1B1M1QE	2A / 250V AC	5A / 28V DC	ON-ON	DPDT
100SP1T1B4M2QE	2A / 250V AC	5A / 28V DC	ON-ON	SPDT
100SP1T1B4M7QE	5A / 120V AC	5A / 28V DC	ON-ON	SPDT
100SP1T1B4M7RE	0.02A / 20V AC	0.02A / 20V DC	ON-ON	SPDT
100SP1T2B4M6QE	2A / 250V AC	5A / 28V DC	ON-ON	SPDT
100SP3T1B1M1QE	2A / 250V AC	5A / 28V DC	ON-OFF-ON	SP3T
200MSP1T1B1M1QE	1A / 250V AC	3A / 28V DC	ON-ON	SPDT
200MSP1T1B1M2QE	1A / 250V AC	3A / 28V DC	ON-ON	SPDT
200MSP3T1B1M2QE	1A / 250V AC	3A / 28V DC	ON-OFF-ON	SP3T

* at resistive load
 ** the position in bracket indicates momentary position.

Switch: door; HONEYWELL



Manufacturer : HONEYWELL
 Mounting : on panel
 Positions : 2
 Panel thickness : 1.3...2.5mm
 Mounting hole diameter : 28.4x14mm
 Features : with pin
 Leads dimensions : 4.8x0.5mm

Leads : connectors
 Switching method* : ON-(ON)

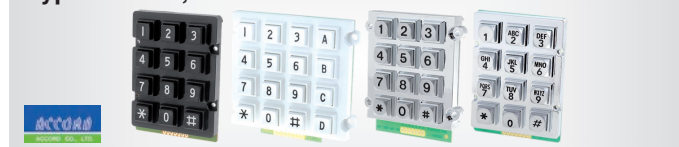
* the position in bracket indicates momentary position.

Symbol	AC contacts rating @R*	Contacts layout
1DM79	10A / 250V AC	SPDT
2DM1	10A / 250V AC	DPDT
1DM1	10A / 125V AC	SPDT

Symbol	AC contacts rating @R*	Contacts layout
1DM21	10A / 125V AC	SPDT
2DM409	10A / 125V AC	DPDT

* at resistive load

Keypad: metal; ACCORD



Manufacturer : ACCORD
 Operating temperature : -20...60°C
 Max. operating current : 20mA
 Max operating voltage : 24V DC
 Features : sealed
 Type of keypad : metal
 Material : metal

IP rating : IP65, IP67

Symbol	Number of buttons	Kind of keypad	H [mm]	W [mm]
AK-206-A-SSB-WP-MM	12	alphanumeric	105.5	39.8
AK-206-N-SSB-WP-MM	12	numeric	105.5	39.8
KB1604-MNS-WP	16	numeric	64	65
KB1607-MNS-WP	16	numeric	70.4	76
KB207-MAS-WP	12	alphanumeric	76	56
KB207-MNS-WP	12	numeric	76	56
KB304-MNS-WP	12	numeric	64	51
KB707-MNS-WP	12	numeric	70	62

Switch: foot; SCHNEIDER ELECTRIC



Manufacturer : SCHNEIDER ELECTRIC
 Type of switch : foot
 Leads : screw terminals
 AC load rating @R* : 3A / 240V AC

* at resistive load

Symbol	Body mat.	Colour	Contacts layout	Switch. method*	IP rating
XPEA110	plastic	black	SPST-NO + SPST-NC	ON-(ON)	IP55
XPEY110	plastic	yellow	SPST-NO + SPST-NC	ON-(ON)	IP55
XPEA111	plastic	black	SPST-NO x2 + SPST-NC x2	ON-(ON)	IP43
XPEB310	plastic	blue	SPST-NO + SPST-NC	ON-(ON)	IP66
XPEG310	plastic	grey	SPST-NO + SPST-NC	ON-(ON)	IP66
XPEY310	plastic	yellow	SPST-NO + SPST-NC	ON-(ON)	IP65
XPEY510	plastic	yellow	SPST-NO + SPST-NC	ON-(ON)	IP55
XPEM110	metal	blue	SPST-NO + SPST-NC	ON-(ON)	IP66
XPEM111	metal	blue	SPST-NO x2 + SPST-NC x2	ON-(ON)	IP66
XPEM211	metal	blue	SPST-NO x2 + SPST-NC x2	ON-(ON)-(ON)	IP66
XPEM310	metal	blue	SPST-NO + SPST-NC	ON-(ON)	IP66
XPEM311	metal	blue	SPST-NO x2 + SPST-NC x2	ON-(ON)	IP66
XPEM510	metal	blue	SPST-NO + SPST-NC	ON-(ON)	IP66
XPEM511	metal	blue	SPST-NO x2 + SPST-NC x2	ON-(ON)	IP66
XPEM611	metal	blue	SPST-NO x2 + SPST-NC x2	ON-(ON)-(ON)	IP66
XPER110	plastic	orange	SPST-NO + SPST-NC	ON-(ON)	IP66
XPER211	plastic	orange	SPST-NO x2 + SPST-NC x2	ON-(ON)-(ON)	IP66
XPER310	metal	orange	SPST-NO + SPST-NC	ON-(ON)	IP66
XPER510	metal	orange	SPST-NO + SPST-NC	ON-(ON)	IP66
XPER810	metal	orange	SPST-NO + SPST-NC	ON-(ON)	IP66

* the position in bracket indicates momentary position.

Symbol	Features
XPEY510	with trigger mechanism
XPEM211	2 steps
XPEM510	with trigger mechanism
XPEM511	with trigger mechanism
XPEM611	2 steps
XPER211	2 steps
XPER810	with trigger mechanism

Switch: manual and foot; FAK; EATON ELECTRIC



Manufacturer : EATON ELECTRIC
 Type of switch : manual and foot
 Operating temperature : -25...40°C
 IP rating : IP67
 Manufacturer series : FAK

Symbol	Contacts layout	Positions	Actuator colour	Features
FAK-R/KC11/I	NC + NO	2	red	-
FAK-S/KC11/I	NC + NO	2	black	-
FAK-R/V/KC01/IY	NC	2	red	return by pulling
FAK-R/V/KC11/IY	NC + NO	2	red	return by pulling

AC contacts rating @R* : 4A / 125V AC
 DC contacts rating @R* : 4A / 28V DC
 Manufacturer : C&K
 * at resistive load

Features : the key can be removed at any position

Symbol	Switching method*	Stable positions number	Number of poles
Y100AA2C203NQ	ON-ON-ON	3	1
Y100AB2C203NQ	ON-ON-ON-ON	4	1
Y200AA2C203NQ	ON-ON-ON	3	2

* the position in bracket indicates momentary position.

Switch: rotary; M; C&K



BBM - break before make
 MBB - make before break
 Manufacturer : C&K
 Operating temperature : -30...85°C
 Switch. method* : BBM (non-shorting)
 Body dimensions : Ø13.34x9.4mm
 AC contacts rating @R** : 0.25A / 125V AC
 DC contacts rating @R** : 0.25A / 28V DC

* the position in bracket indicates momentary position.
 ** at resistive load

Symbol	Leads	Positions	Indexed positions [°]
MA00L1NZQD	for soldering	10	36
MB00L1NZQD	for soldering	5	36
MC00L1NCQD	for PCB	12	30
ME00L1NZQD	for soldering	10	36
MG00L1NZQD	for soldering	12	30

Key switch; ONPOW; Related items: S04-11; SPDT



Manufacturer : ONPOW
 Type of switch : key switch
 IP rating : IP40
 Operating temperature : -25...55°C
 Positions : 2
 Mechanical rotation angle : 90°
 Leads : for soldering
 Max. contact resistance : 50mΩ
 Key shape : flat
 Body colour : black
 AC contacts rating @R* : 0.5A / 220V AC
 DC contacts rating @R* : 0.1A / 110V DC
 Mechanical durability : 200000 cycles
 Electrical life : 50000 cycles
 Illumination : none
 Features : key with the same code
 Number of terminals : 3
 Related items : S04-11
 * at resistive load

Symbol	Contacts layout	Switch. method*	Mounting hole [mm]	Stable positions number
LAS1-AGQ-11Y/21/A	SPDT	ON-ON	Ø19	2

* the position in bracket indicates momentary position.

Switch: rotary; A; C&K



Manufacturer : C&K
 Electrical life : 15000 cycles
 Operating temperature : -30...85°C
 Max. contact resistance : 20mΩ
 Min. insulation resistance : 10GΩ
 AC contacts rating @R* : 2.5A / 125V AC
 DC contacts rating @R* : 0.35A / 125V DC

* at resistive load

Symbol	Body dimensions [mm]	Positions	Leads
A20615RNCQ	Ø26.2	6	for PCB
A40303MNZQ	Ø26.2	3	for soldering
A12505RNCQ	Ø26.2	8	for PCB
A12505RNZQ	Ø26.2	8	for soldering
A11215RNCQ	Ø26x50	12	for PCB
A11442MNZB	Ø26.19x12.83	2	for soldering
A12405RNCQ	Ø26.19x12.83	4	for PCB
A12515RNZQ	Ø26.19x12.83	8	for soldering

Control lamp; RMQ-Titan; EATON ELECTRIC



Manufacturer : EATON ELECTRIC
 Type of light indicator : control lamp
 Mounting hole : Ø22.5mm
 Operating temperature : -25...70°C
 IP rating : IP67
 Caution! : Illuminating unit has to be ordered separately
 Switch standard : 22mm

Symbol	Kind	Colour	Illumination
M22-L-W	flat	white	M22-LED
M22-L-R	flat	red	M22-LED
M22-L-G	flat	green	M22-LED
M22-L-Y	flat	yellow	M22-LED
M22-L-B	flat	blue	M22-LED
M22-LH-Y	conical	yellow	M22-LED
M22-LH-R	conical	red	M22-LED
M22-LH-W	conical	white	M22-LED
M22-LH-B	conical	blue	M22-LED
M22-LH-G	conical	green	M22-LED
M22-LC-Y	flat	yellow	BA9S, LED, neon lamp, filament lamp
M22-LC-B	flat	blue	BA9S, LED, neon lamp, filament lamp
M22-LC-G	flat	green	BA9S, LED, neon lamp, filament lamp
M22-LC-R	flat	red	BA9S, LED, neon lamp, filament lamp
M22-LCH-B	conical	blue	BA9S, LED, neon lamp, filament lamp
M22-LCH-G	conical	green	BA9S, LED, neon lamp, filament lamp
M22-LCH-R	conical	red	BA9S, LED, neon lamp, filament lamp
M22-LCH-W	conical	white	BA9S, LED, neon lamp, filament lamp
M22-LCH-Y	conical	yellow	BA9S, LED, neon lamp, filament lamp

Key switch; Y; C&K



Mounting hole diameter : Ø19.3mm
 Kind of wrench : unsymmetrical
 Key shape : flat

Control cassette; RMQ-Titan; EATON ELECTRIC



Put to release.
 Manufacturer : EATON ELECTRIC
 Accessories : control cassette
 Button shape : mushroom
 Enclosure material : plastic
 Number of buttons : 1
 Operating temperature : -25...70°C
 IP rating : IP66

Symbol	Contacts layout	Actuator colour	Positions	Button marking
M22-PV/KC02/IY	NC x2	red	2	blank
M22-PV/KC11/IY	NC + NO	red	2	blank
M22-PVS/KC11/IY	NC + NO	red	2	blank

Symbol	Features
M22-PV/KC02/IY	return by pulling
M22-PV/KC11/IY	return by pulling
M22-PVS/KC11/IY	return by turning of key

Symbol	Power [W]	Imp. [Ω]	Sound freq. [Hz]	Sound level	Body dim. [mm]	IP rating
VS-K36MO-8	1	8	300...20000	77dB	Ø36x6	IP65
VS-K40-50	1	50	350...6000	83dB	Ø40x4.5	IP65
VS-K40-8	1	8	350...6000	83dB	Ø40x4.5	IP65
VS-K45-8	1	8	300...14000	83dB	Ø45x18	-
VS-SC-4.9FL-8	4	8	120...20000	83dB	90x40x14	IP63
VS-SC5.9FLX-8	4	8	85...20000	82dB	90x50x16	IP63

Signaller: sound; ONPOW



Manufacturer : ONPOW
 Type of signaller : sound
 IP rating : IP40

Symbol	Oper. volt.	Mounting hole [mm]	Sound level	Operating temp. [°C]	Body colour
AD16-BUZZER/12V	12 V DC	Ø22	80dB	-20...50	red
AD16-BUZZER/220V	230 V AC	Ø22	80dB	-20...50	red
AD16-BUZZER/24V	24 V DC	Ø22	80dB	-20...50	red
AD16S-BUZ/RG/12V	12 V DC	Ø22	80dB	-20...50	white
AD16S-BUZ/RG/220V	230 V AC	Ø22	80dB	-20...50	white
AD16S-BUZ/RG/24V	24 V DC	Ø22	80dB	-20...50	white
V16-12-AY-BUZ	12 V DC	Ø16	75dB	-20...55	black
V16-24-AY-BUZ	24 V DC	Ø16	75dB	-20...55	black
V16-230-AY-BUZ	230 V AC	Ø16	75dB	-20...55	black
V16-12-AF-BUZ	12 V DC	Ø16	75dB	-20...55	black
V16-24-AF-BUZ	24 V DC	Ø16	75dB	-20...55	black
V16-230-AF-BUZ	230 V AC	Ø16	75dB	-20...55	black
V16-12-AJ-BUZ	12 V DC	Ø16	75dB	-20...55	black
V16-24-AJ-BUZ	24 V DC	Ø16	75dB	-20...55	black
V16-230-AJ-BUZ	230 V AC	Ø16	75dB	-20...55	black
V16-12-AD-BUZ	12 V DC	Ø16	80dB	-20...55	black
V16-24-AD-BUZ	24 V DC	Ø16	80dB	-20...55	black
V16-230-AD-BUZ	230 V AC	Ø16	80dB	-20...55	black

Sound transducers

Loudspeaker; mylar; VISATON



Manufacturer : VISATON

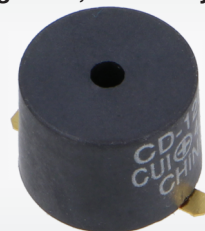
Symbol	Dia. [mm]	Ht. [mm]	Power [W]	Sound freq. [Hz]	Sound level [dB]	IP rating	Imp. [Ω]
VS-K28WP-50	28	5.5	1	300...20000	75dB	IP65	50
VS-K28WP-8	28	5.5	1	300...20000	75dB	IP65	8
VS-K36WP-50	36	6	1	300...20000	77dB	IP65	50
VS-K36WP-8	36	6	1	300...20000	77dB	IP65	8
VS-K50FL-16	50	8	1	150...20000	80dB	IP65	16
VS-K50FL-8	50	8	1	150...20000	80dB	IP65	8
VS-K50WP-50	50	18	2	180...17000	84dB	IP65	50
VS-K50WP-8	50	18	2	180...17000	84dB	IP65	8
VS-K64WP-50	64	19.3	2	200...15000	86dB	IP65	50
VS-K64WP-8	64	19.3	2	200...15000	86dB	IP65	8
VS-K-50-FLS	50	7	1	350...20000	85dB	IP65	8
VS-K-50-WPT-8	50	18	2	180...17000	84dB	IP65	8
VS-K40-SQ-8	40	11.5	0.5	300...20000	82dB	IP65	8
VS-K50-8	50	17	2	250...10000	83dB	IP65	8
VS-K-50-SQ	45	18.5	2	250...10000	83dB	IP65	8
VS-K-50-WP	50	18	2	180...17000	84dB	IP65	16
VS-K57C-8	57	17	2	350...6800	87dB	IP65	8
VS-K57FL-8	57	8.2	1	220...16000	83dB	IP65	8
VS-K-64-WPT	64	19	2	200...15000	86dB	IP65	8
VS-K28WPC-50	28	5.4	1	300...20000	75dB	IP65	50
VS-K28WPC-8	28	5.4	1	300...20000	75dB	IP65	8

Loudspeaker; miniature



Symbol	Power [W]	Imp. [Ω]	Sound freq. [Hz]	Sound level [dB]	Body dim. [mm]	IP rating
VS-BF32-8	2	8	150...20000	78dB	32x32x13	-
VS-BF45	4	4	90...20000	79dB	Ø61x26	-
VS-K14.25-8	1	8	500...20000	72dB	25x14x5.3	IP64
VS-K16-50	0.5	50	700...20000	71dB	Ø16x3.5	-
VS-K20-40-8	1	8	400...20000	79dB	40x20x8	IP64
VS-K23-8	0.2	8	900...16000	73dB	Ø23x8.6	-
VS-K23-8/2820	0.3	8	420...20000	79dB	Ø23x5	IP64
VS-K23-SQ	0.5	8	300...19000	74dB	23x23x8.5	IP64
VS-K28.40-8	2	8	230...20000	79dB	40x28x11.7	-
VS-K28GI-8	0.5	8	500...7000	84dB	Ø28x6.2	IP65

Electromagnetic signaller; Same Sky



Manufacturer : Same Sky
 Type of sound transducer : electromagnetic signaller

Symbol	Body dimensions [mm]	Sound level [dB]	Operating voltage [V DC]	Operating current [mA]
CBT-09427-SMT-TR	10.5x9x2.5	87dB	2.5...4.5	110
CC-0601	Ø6.6x3.5	77dB	1...1.7	80
CCG-1206	Ø12x9.5	91dB	4...8	50
CD-1206-SMT	Ø12x9	94dB	4...8	40
CEM-1201-42	Ø12x8.5	90dB	1...2	20
CEM-1201-50	Ø12x8.5	87dB	1...2	20
CEM-1201S	Ø12x9.5	88dB	1...3	40
CEM-1203-42	Ø12x8.5	95dB	3...5	35
CEM-1205-IC	Ø12x9.5	92dB	3...6	30
CEM-1206S	Ø12x9.5	92dB	3...8	45
CEM-1212C	Ø12x9.5	94dB	8...16	35
CEM-1212S	Ø12x9.5	92dB	6...16	40
CEM-14R06CT	Ø12x10	91dB	1...1.7	40
CEM-1601	Ø16x14	88dB	1...3	20
CEM-1606	Ø16x14	96dB	3...12	50
CEM-1612	Ø16x14	97dB	6...18	40
CEP-1172	Ø31.4x16	81dB	3...28	7
CEP-1173	44x32x13.5	82dB	3...28	7
CEP-2202A	Ø24.2x16	85dB	3...20	11
CMI-1210-5-95T	Ø12x9.5	98dB	3...7	35
CMI-1210-90-SMT-TR	12.8x12.9x10	90dB	3...7	30
CMI-1210-92T	Ø12x9.5	92dB	7...15	35
CMI-1265-88-SMT-TR	12.8x12.8x7.1	88dB	4...7	30
CMI-1271-85-SMT-TR	12.8x12.8x7.1	85dB	8...15	30
CMI-1275-85T	Ø12x7.5	85dB	3...7	30
CMI-1275C-050	Ø12x7.5	90dB	3...7	30
CMI-1295-0585T	Ø12x9.5	85dB	4...7	30

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Electromagnetic signaller; Same Sky (cont.)

Symbol	Body dimensions [mm]	Sound level	Operating voltage [V DC]	Operating current [mA]
CMI-1295-1285T	Ø12x9.5	85dB	8...16	30
CMI-1295-85T	Ø12x9.5	85dB	2...5	30
CMI-1295IC-0385T	Ø12x9.5	85dB	2...5	30
CMI-1295IC-0585T	Ø12x9.5	85dB	4...7	30
CMI-1295IC-1285T	Ø12x9.5	85dB	8...15	30
CMI-1614-0685T	Ø16x14	85dB	3...9	30
CMI-1614-1285T	Ø16x14	85dB	8...15	30
CMI-1614C-120	Ø16x14	95dB	9...13	35
CMI-8536-82-SMT-TR	8.5x8.5x3.6	82dB	2...5	40
CMI-9605-0580T	Ø9.6x5	80dB	3...7	30
CMI-9605-1280T	Ø9.6x5	80dB	9...15	30
CMI-9605IC-0380T	Ø9.6x5	80dB	2...5	30
CMI-9605IC-0580T	Ø9.6x5	80dB	3...7	30
CMI-9650C-030	Ø9.6x5	78dB	2...5	15
CMI-9650C-120	Ø9.6x5	90dB	10...13	30
CMI-9651S-SMT-TR	9.6x9.6x5	90dB	7...15	30
CMI-9653S-SMT-TR	9.6x9.6x5	80dB	2...5	30
CMI-9655S-SMT-TR	9.6x9.6x5	85dB	4...7	30
CMI-9705-0380SMTTR	9.7x9.7x5	80dB	2...5	30
CMI-9705-0580SMTTR	9.7x9.7x5	80dB	3...8	30
CMI-9705-85-SMT-TR	9.7x9.7x5	85dB	8...15	30
CMT-0502-75-SMT-TR	5x5x2	75dB	2...5	100
CMT-0503-75-SMT-TR	5x5x3	75dB	2...5	100
CMT-0525-75-SMT-TR	5x5x2.5	75dB	2...5	100
CMT-0904-83T	Ø9x4.8	83dB	2...5	90
CMT-0904-85T	9x10.5x4	85dB	2...4	90
CMT-0926-86-SMT-TR	Ø10.5x2.6	86dB	2...4	100
CMT-0945-85-SMT-TR	Ø9x4.5	85dB	2...4.5	80
CMT-1032-85-SMT-TR	10x10x3.3	85dB	4...6	80
CMT-1085-85-SMT-TR	10x8.5x2	85dB	2.5...4.5	100
CMT-1271-88-SMT-TR	12x8x12.8x7.1	88dB	3...7	40
CMT-1285C-015	Ø12x8.5	91dB	1...2	35
CMT-1285C-035	Ø12x8.5	91dB	3...5	70
CMT-1295-85T	Ø12x9.5	90dB	2...5	45
CMT-1403-87-SMT-TR	14x11x3	92dB	3...6	80
CMT-1411R-SMT-TR	14x11x3	93dB	4...7	90
CMT-1421-87-SMT-TR	14x11x3	92dB	3...6	80
CMT-1614-85T	Ø16x14	85dB	9...15	40
CMT-1614C-120	Ø16x14	94dB	9...13	80
CMT-2412-95T	Ø24.5x12.5	95dB	10...14	60
CMT-2412C-050	Ø24.5x12.5	89dB	4...6	80
CMT-2412C-120	Ø24.5x12.5	95dB	10...14	80
CMT-2512-1285T	Ø25x12.5	85dB	8...14	100
CMT-2512-585T	Ø25x12.5	80dB	3...7	80
CMT-322-65-SMT-TR	3.2x3.2x2	65dB	2...4	120
CMT-4023S-SMT-TR	4x4x2	70dB	2...4	90
CMT-5023S-SMT-TR	5x5x2	80dB	2...4	110
CMT-6504-85-SMT-TR	6.9x6.5x4	90dB	2.5...4.5	120
CMT-6635C-030	Ø6.6x3.5	80dB	2...5	80
CMT-6736-80T	Ø6.7x3.6	75dB	1...3	80
CMT-7525-80-SMT-TR	7.5x7.5x2.5	80dB	2.5...4.5	100
CMT-7525-85-SMT-TR	7.5x7.5x2.5	90dB	2.5...4.5	100
CMT-7525S-SMT-TR	7.5x7.5x2.5	90dB	2.5...4.5	100
CMT-8503-85B-SMTTR	8.5x8.5x3	85dB	3...5	90
CMT-8503-87-SMT-TR	8.5x8.5x3	87dB	2.5...4.5	90
CMT-8503-90-SMT-TR	8.5x8.5x3	90dB	2.5...4.5	90
CMT-8504-100-SMTTR	8.5x8.5x4	100dB	1...6	150
CMT-8504-99-SMT-TR	8.5x8.5x4	99dB	2.5...4.5	100
CMT-8530S-SMT-TR	8.5x8.5x3	90dB	3...5	90
CMT-8540S-SMT-TR	8.5x8.5x4	100dB	1...6	150
CMT-85853-97SMTTR	8.5x8.5x3	97dB	3...5	80
CMT-9504-87-SMT-TR	8.5x8.5x4	87dB	2.5...4.5	90
CMT-9605-85T	Ø9.6x5	85dB	4...6	100
CMT-9648-85T	Ø9x4.8	85dB	3...8	80
CS-3603	33.5x17x15.3	78dB	2...4	40
CS-3606	33.5x17x15.3	78dB	4...8	35
CS-3612	33.5x17x15.3	82dB	8...16	35
CS-3624	33.5x17x15.3	78dB	18...28	35
CS-8406	22.5x16.7x15.5	78dB	4...8	25
CS-8412	22.5x16.7x15.5	77dB	8...16	30
CSQ-601BP	Ø12x5.5	76dB	1...2	35
CSQ-706BP	Ø12x5.5	75dB	1...2	20
CSQG703BP	Ø12x3.8	90dB	2...4	90
CSQ-RP-E	Ø12x6	91dB	1...2	80
CSS-0575A-SMT-TR	5x5x2	76dB	2...4	95
CSS-0575B-SMT-TR	5x5x2.7	75dB	2...4	110
CSS-0578-SMT-TR	5x5x3	78dB	2...4	95
CSS-73B16K-SMT-TR	8.5x8.5x4	92dB	2.5...4.5	100
CSS-95B30-SMT-TR	10x10x3.2	95dB	4...7	80
CSS-H5B43-SMT-TR	14x11x3	91dB	4...6	60
CSS-I4B20-SMT-TR	8.5x8.5x3	90dB	3...5	80
CSS-J4B20-SMT-TR	8.5x8.5x3.2	97dB	3...5	80
CSS-J4D20-SMT-TR	8.5x8.5x3.2	97dB	3...5	80
CST-911AP	Ø9x4.5	92dB	1...2	80
CST-911RP-A	10.6x9x4.5	91dB	1...2	80

Symbol	Body dimensions [mm]	Sound level	Operating voltage [V DC]	Operating current [mA]
CT-1205CL-SMT-TR	12.8x12.8x7.1	92dB	4...7	30
CT-1205C-SMT-TR	12.8x12.8x10	94dB	4...7	30
CT-1205H-SMT-TR	12.8x12.8x10	92dB	3...7	60
CT-1205-SMT-TR	12.8x12.8x7.1	92dB	3...8	40
CT-1212CL-SMT-TR	12.8x12.8x7.1	90dB	8...15	30
CX-0905C	Ø9.6x5	80dB	4...7	35
CX-1606C	Ø16x14	92dB	4...7	50
CX-1612C	Ø16x14	92dB	8...16	35

Piezo signaller; Same Sky



Manufacturer : Same Sky

Type of sound transducer : piezo signaller

Symbol	Operating voltage [V DC]	Diame-ter [mm]	Operating current [mA]	Sound level
CEP-1106	30	22.8	18	88dB
CEP-1110	30	24	12	90dB
CEP-1112	30	24	11	92dB
CEP-1114	30	30	11	93dB
CEP-1116	30	30	8	90dB
CEP-1123	3...28	23.5	7	74dB
CEP-1126	30	29.5	10	92dB
CEP-1130	30	30.2	10	90dB
CEP-1141	30	34.5	9	81dB
CEP-1152	30	16.5	9	84dB
CEP-1153	30	17	7	82dB
CEP-1162	20	14	7	85dB
CEP-2202AS	3...20	24.2	11	85dB
CEP-2224	3...20	24	15	78dB
CEP-2242	4...16	13.9	15	77dB
CEP-2250	3...28	28	6	85dB
CEP-2260A	3...20	32	10	93dB
CEP-2272A	3...20	31.3	10	93dB
CEP-2280	6...18	32	17	88dB
CEP-4411AC	30...120	41.8	7	88dB
CLI-1375B-83T	6...15	13.8	12	83dB
CLI-1375BS-83T	6...15	13.8	20	83dB
CLI-1375G-83T	6...15	13.8	12	83dB
CLI-1375GS-83T	6...15	13.8	20	83dB
CLI-1375R-83T	6...15	13.8	12	83dB
CLI-1375RS-83T	6...15	13.8	20	83dB
CLI-1375Y-83T	6...15	13.8	12	83dB
CLI-1375YS-83T	6...15	13.8	20	83dB
CLI-3224B-95T	3...15	32.8	25	95dB
CLI-3224G-95T	3...15	32.8	25	95dB
CPE-120	30	24	8	88dB
CPE-121	3...28	24	13	83dB
CPE-122	30	24	8	90dB
CPE-150	30	16.5	8	80dB
CPE-163	30	13	10	80dB
CPE-164	20	13.7	10	80dB
CPE-165	30	14	11	85dB
CPE-171	20	9	4	75dB
CPE-1785	30	17	10	85dB
CPE-200	3...20	23.8	14	73dB
CPE-203	3...20	24.5	9	86dB
CPI-137-12T	5...15	13.9	18	92dB
CPI-137-24T	16...28	13.9	18	92dB
CPI-1375-80T	3...16	13.8	7	80dB
CPI-1375-88T	4...16	13.9	15	88dB
CPI-1375IC-80T	3.5...16	13.8	7	88dB
CPI-137-83T	4...10	13.9	10	83dB
CPI-148-24-90T-67	15...28	13.9	20	90dB
CPI-1514-12-95T	3...16	15.4	30	95dB
CPI-1762-90-SMT-TR	3...15	17	12	90dB
CPI-2207-95-SMT-TR	3...15	22.1	12	95dB
CPI-2212-85PM	1.5...24	22.5	12	85dB
CPI-2316-5-85T	3...15	23.5	15	90dB
CPI-2316-85T	3...20	23	10	85dB
CPI-2397-85T	3...20	23.4	13	85dB
CPI-2398-90T	3...28	23	10	90dB
CPI-2416-100T	4...18	24.5	25	100dB
CPI-2825-85PM	4...28	28	10	85dB

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Piezo signaller; Same Sky (cont.)

Symbol	Operating voltage [V DC]	Diame-ter [mm]	Operating current [mA]	Sound level
CPI-2825-95L150	3...24	28	10	95dB
CPI-2825F-85PM	4...28	28	10	85dB
CPI-2825S-85PM	4...28	28	10	85dB
CPI-3014-90T	3...20	30.2	15	90dB
CPI-3016-90L080	3...28	30	15	90dB
CPI-3020-90T	3...24	30	12	93dB
CPI-3116-3-100T	2.5...3.5	31	30	97dB
CPI-3119-90PM	3...20	31.28	15	90dB
CPI-3213-90PM	3...28	32	10	90dB
CPI-3533-97ST	4...28	43	8	97dB
CPT-2207-84T	1...30	22	6	84dB
CPT-2207-90T	3...30	22	1.5	90dB
CPT-2207-95-SMT-TR	30	22.1	12	95dB
CPT-2272C-200	3...30	22	12	90dB
CPT-2305-90PM	3...30	23	5	90dB
CPT-2312-88T	1...30	23	5	88dB
CPT-2416-85T	8...16	23.8	16	85dB
CPT-2475-92T	1...30	24	8	92dB
CPT-2510-28-85T	3...28	25.2	27	85dB

Information : more products from this series available on www.tme.eu

Manufacturer series : G2R

Symbol	Contacts layout	I _{contacts max} [A]	U _{coil}	AC load rating @R*	DC load rating @R*
G2R-1-12DC	SPDT	10	12V DC	10A / 250V AC	10A / 30V DC
G2R-1-24AC	SPDT	10	24V AC	10A / 250V AC	10A / 30V DC
G2R-1-24DC	SPDT	10	24V DC	10A / 250V AC	10A / 30V DC
G2R-1-100/110AC	SPDT	10	100V AC	10A / 250V AC	10A / 30V DC
G2R-2-12AC	DPDT	5	12V AC	5A / 250V AC	5A / 30V DC
G2R-2-12DC	DPDT	5	12V DC	5A / 250V AC	5A / 30V DC
G2R-2-24AC	DPDT	5	24V AC	5A / 250V AC	5A / 30V DC
G2R-2-24DC	DPDT	5	24V DC	5A / 250V AC	5A / 30V DC
G2R-2-48DC	DPDT	5	48V DC	5A / 250V AC	5A / 30V DC
G2R-2-110DC	DPDT	5	110V DC	5A / 250V AC	5A / 30V DC
G2R-2-230AC	DPDT	5	230V AC	5A / 250V AC	5A / 30V DC

* at resistive load

↓ **Relays and contactors** ↓

Relay: electromagnetic; miniature; TE Connectivity



Manufacturer : TE Connectivity
 Type of relay : electromagnetic
 Variant : miniature
 Mounting : PCB
 Contact current max. : 8A
 Switched voltage : max. 400V AC
 Switched voltage : max. 300V DC
 AC load rating @R* : 8A / 250V AC
 DC load rating @R* : 8A / 30V DC
 Body dimensions : 28.5x10.1x12.3mm
 Operating temperature : -40...85°C
 * at resistive load

Symbol	Contacts layout	U _{coil} [V DC]	R _{coil} [Ω]	I _{coil} [mA]	P _{coil} [mW]	Term. pitch [mm]
RY211005	SPDT	5	112	44.6	223	3.2
RY211006	SPDT	6	164	37	220	3.2
RY211012	SPDT	12	620	19.16	220	3.2
RY211024	SPDT	24	2350	10.2	220	3.2
RY212005	SPDT	5	113	44	220	3.2
RY213024	SPDT	24	2350	10.2	220	3.2
RY610018	SPDT	18	1296	13.7	220	3.2
RY611005	SPDT	5	112	44.6	220	3.2
RY611012	SPDT	12	620	19.3	220	3.2
RY611024	SPDT	24	2350	10.2	220	3.2
RY612012	SPDT	12	620	19.3	220	3.2
RY612024	SPDT	24	2350	10.2	220	3.2
RY530006	SPST-NO	6	164	36.7	220	5
RY531005	SPST-NO	5	113	44	220	5
RY531012	SPST-NO	12	620	19.3	220	5
RY531024	SPST-NO	24	2350	10.2	245	5

Manufacturer series (RY21xxx, RY61xxx, RY530006, RY531005, RY531024):
 — RYII

Relay: electromagnetic; miniature; RELPOL



Manufacturer : RELPOL
 Type of relay : electromagnetic
 Mounting : PCB
 Contact current max. : 16A
 DC load rating @R* : 16A / 24V DC
 Contact resistance : 100mΩ
 Term. pitch : 5mm
 Body dimensions : 29x12.7x15.7mm
 Manufacturer series : RM85
 * at resistive load

Symbol	Contacts layout	Coil voltage	Coil res. [Ω]	Coil power
RM85-2011-35-1005	SPDT	5V DC	60	480 mW
RM85-2011-35-1012	SPDT	12V DC	360	480 mW
RM85-2011-35-1024	SPDT	24V DC	1440	480 mW
RM85-2011-35-1048	SPDT	48V DC	5700	480 mW
RM85-2011-35-1110	SPDT	110V DC	25200	480 mW
RM85-2011-35-5024	SPDT	24V AC	400	750 mVA
RM85-2011-35-5230	SPDT	230V AC	38500	750 mVA
RM85-2021-35-1005	SPST-NO	5V DC	60	480 mW
RM85-2021-35-1012	SPST-NO	12V DC	360	480 mW
RM85-2021-35-1024	SPST-NO	24V DC	1440	480 mW
RM85-2021-35-1110	SPST-NO	110V DC	25200	480 mW
RM85-2021-35-5024	SPST-NO	24V AC	400	750 mVA
RM85-2021-35-5230	SPST-NO	230V AC	38500	750 mVA

Relay: electromagnetic; miniature; OMRON Electronic Components



Type of relay : electromagnetic
 Variant : miniature, monostable
 Manufacturer : OMRON Electronic Components
 Operating temperature : -40...70°C
 Body dimensions : 29x13x25.5mm

Relay: electromagnetic; miniature; TE Connectivity



Manufacturer : TE Connectivity
 Type of relay : electromagnetic
 Variant : miniature
 Mounting : PCB
 Contacts configuration : SPDT
 Contact current max. : 5A
 Switched voltage : max. 440V AC
 Switched voltage : max. 300V DC
 AC load rating @R* : 5A / 250V AC
 DC load rating @R* : 5A / 30V DC
 Term. pitch : 7.62mm
 Body dimensions : 20x10x10mm
 Operating temperature : -40...85°C
 Manufacturer series : PE
 * at resistive load

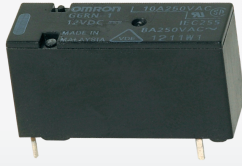
Symbol	U _{coil} [V DC]	R _{coil} [Ω]	I _{coil} [mA]	P _{coil} [mW]
PE014005	5	125	40	200
PE014006	6	172	34.8	200
PE014012	12	685	17.5	200
PE514012	12	685	17.5	200
PE014024	24	2725	8.8	200

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Relay: electromagnetic; miniature; TE Connectivity (cont.)

Symbol	U _{coil} [V DC]	R _{coil} [Ω]	I _{coil} [mA]	P _{coil} [mW]
PE514024	24	2725	8.8	200
PE014048	48	10.97k	4.4	200

Relay: electromagnetic; miniature; OMRON Electronic Components



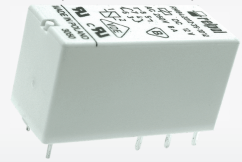
OMRON

Manufacturer : OMRON Electronic Components
 Type of relay : electromagnetic
 Variant : miniature
 Mounting : PCB
 Switched voltage : max. 250V AC
 Switched voltage : max. 30V DC
 DC load rating @R* : 5A / 30V DC
 Operating temperature : -40...85°C
 Body dimensions : 28.5x10x15mm
 Contact resistance : 100mΩ
 Leads : for soldering
 Manufacturer series : G6RN
 * at resistive load

Symbol	U _{coil} [V DC]	Contacts layout	AC load rating @R*	Contact material
G6RN-1-5	5	SPDT	8A / 250V AC	Ag
G6RN-1-6DC	6	SPDT	8A / 250V AC	Ag/Au
G6RN-1-9DC	9	SPDT	8A / 250V AC	Ag/Au
G6RN-1-12	12	SPDT	8A / 250V AC	Ag/Au
G6RN-1-18DC	18	SPDT	8A / 250V AC	Ag/Au
G6RN-1-24	24	SPDT	8A / 250V AC	Ag/Au
G6RN-1-48DC	48	SPDT	8A / 250V AC	Ag/Au
G6RN-1-AP4-24	24	SPDT	8A / 250V AC	Ag/Au
G6RN-1A-5	5	SPST-NO	8A / 250V AC	Ag/Au
G6RN-1A-6DC	6	SPST-NO	8A / 250V AC	Ag/Au
G6RN-1A-18DC	18	SPST-NO	8A / 250V AC	Ag/Au
G6RN-1A-12	12	SPST-NO	8A / 250V AC	Ag/Au
G6RN-1A-24	24	SPST-NO	8A / 250V AC	Ag/Au
G6RN-1A-48DC	48	SPST-NO	8A / 250V AC	Ag/Au
G6RN17EASICFHADC12	12	SPDT	8A / 250V AC	AgSnIn
G6RN17EASICFHADC24	24	SPDT	8A / 250V AC	AgSnIn
G6RN17EASICFHADC5	5	SPDT	8A / 250V AC	AgSnIn
G6RN17EASICFHADC6	6	SPDT	8A / 250V AC	AgSnIn
G6RN1A7EASICFHA12	12	SPST-NO	10A / 250V AC	AgSnIn
G6RN1A7EASICFHA24	24	SPST-NO	10A / 250V AC	AgSnIn
G6RN1A7EASICFHADC5	5	SPST-NO	10A / 250V AC	AgSnIn
G6RN1A7EASICFHADC6	6	SPST-NO	10A / 250V AC	AgSnIn

* at resistive load

Relay: electromagnetic; miniature; RELPOL



relpol S.A.

Manufacturer : RELPOL
 Variant : miniature
 Mounting : PCB
 Contact current max. : 8A
 Switched voltage : max. 250V DC
 Switched voltage : max. 440V AC
 AC load rating @R* : 8A / 250V AC
 DC load rating @R* : 8A / 24V DC
 Contact resistance : 100mΩ
 Term. pitch : 5mm
 Body dimensions : 29x12.7x15.7mm
 Operating temperature : -40...85°C
 Type of relay : electromagnetic
 Manufacturer series : RM84
 * at resistive load

Symbol	Contacts layout	Coil voltage	Coil res. [Ω]	Coil power
RM84-2012-35-1005	DPDT	5V DC	60	480 mW
RM84-2012-35-1012	DPDT	12V DC	360	480 mW
RM84-2012-35-1024	DPDT	24V DC	1440	480 mW
RM84-2012-35-1048	DPDT	48V DC	5700	480 mW

Symbol	Contacts layout	Coil voltage	Coil res. [Ω]	Coil power
RM84-2012-35-1110	DPDT	110V DC	25200	480 mW
RM84-2022-35-1005	DPST-NO	5V DC	60	480 mW
RM84-2022-35-1012	DPST-NO	12V DC	360	480 mW
RM84-2022-35-1024	DPST-NO	24V DC	1440	480 mW
RM84-2012-35-5024	DPDT	24V AC	400	750 mVA
RM84-2012-35-5012	DPDT	12V AC	100	750 mVA
RM84-2012-35-5048	DPDT	48V AC	1550	750 mVA
RM84-2012-35-5110	DPDT	110V AC	8900	750 mVA
RM84-2012-35-5230	DPDT	230V AC	38500	750 mVA

Relay: electromagnetic; miniature; FINDER



Manufacturer : FINDER

Symbol	Contacts layout	I _{contacts} max [A]	U _{coil}	AC load rating @R*	DC load rating @R*
40.31.7.012.0000	SPDT	20	12V DC	10A / 250V AC	10A / 30V DC
40.31.7.024.0000	SPDT	20	24V DC	10A / 250V AC	10A / 30V DC
40.31.8.012.0000	SPDT	20	12V AC	10A / 250V AC	10A / 30V DC
40.31.8.024.0000	SPDT	20	24V AC	10A / 250V AC	10A / 30V DC
40.31.8.048.0000	SPDT	20	48V AC	10A / 250V AC	10A / 30V DC
40.31.8.230.0000	SPDT	20	230V AC	10A / 250V AC	10A / 30V DC
40.51.8.024.0000	SPDT	20	24V AC	10A / 250V AC	10A / 30V DC
40.51.8.110.0000	SPDT	20	110V AC	10A / 250V AC	10A / 30V DC
40.51.8.230.0000	SPDT	20	230V AC	10A / 250V AC	10A / 30V DC
40.52.7.012.0000	DPDT	15	12V DC	8A / 250V AC	8A / 30V DC
40.52.7.024.0000	DPDT	15	24V DC	8A / 250V AC	8A / 30V DC
40.52.8.012.0000	DPDT	15	12V AC	8A / 250V AC	8A / 30V DC
40.52.8.024.0000	DPDT	15	24V AC	8A / 250V AC	8A / 30V DC
40.52.8.110.0000	DPDT	15	110V AC	8A / 250V AC	8A / 30V DC
40.52.8.230.0000	DPDT	15	230V AC	8A / 250V AC	8A / 30V DC

* at resistive load

Manufacturer series:

- 40.31 (40.31.xxx000)
- 40.51 (40.51.8.xxx.000)
- 40.52 (40.52.xxx000)

Relay: electromagnetic; miniature; PANASONIC



Panasonic

Manufacturer : PANASONIC
 Type of relay : electromagnetic
 Variant : miniature
 Contact material : AgNi
 Switched voltage : max. 250V AC
 Body dimensions : 28x5x15mm
 Mechanical durability : 5000000 cycles
 Operating temperature : -40...85°C
 Contact current max. : 6A
 P_{coil} : 170mW
 AC load rating @R* : 6A / 250V AC
 Manufacturer series : APF
 * at resistive load

Symbol	Contacts configuration	U _{coil} [V DC]	I _{coil} [mA]
APF10205	SPST-NO	5	34
APF10212	SPST-NO	12	14.2
APF10224	SPST-NO	24	7.1
APF30205	SPDT	5	34
APF30212	SPDT	12	14.2
APF30224	SPDT	24	7.1
APF30305	SPDT	5	34
APF30312	SPDT	12	14.2
APF30324	SPDT	24	7.1

Relays and contactors

Relay: electromagnetic; miniature; OMRON Electronic Components



Manufacturer : OMRON Electronic Components
 Type of relay : electromagnetic
 Variant : miniature
 Switched voltage : max. 30V DC
 Switched voltage : max. 277V AC
 Contact resistance : 100mΩ
 Mounting : PCB
 Operating temperature : -40...85°C
 Body dimensions : 20.3x10.3x15.8mm
 Manufacturer series : G5Q

Symbol	Contacts layout	U _{coil} [V DC]	Contact current max. [A]	AC load rating @R*
G5Q-1-12DC	SPDT	12	10	3A / 250V AC
G5Q-14-5DC	SPDT	5	10	3A / 250V AC
G5Q-14-12DC	SPDT	12	10	3A / 250V AC
G5Q-1A-24DC	SPST-NO	24	5	5A / 250V AC
G5Q-1A4-5DC	SPST-NO	5	5	5A / 250V AC
G5Q-1A4-12DC	SPST-NO	12	5	5A / 250V AC
G5Q-1A4-24DC	SPST-NO	24	5	5A / 250V AC

* at resistive load

Symbol	Coil voltage	Contact current max. [A]	IP rating
RT314012	12V DC	16	IP40
RT314024	24V DC	16	IP40
RT314524	24V AC	16	IP40
RT314730	230V AC	16	IP40
RTB14012	12V DC	12	IP67
RTB14024	24V DC	12	IP67
RTB14524	24V AC	12	IP67
RTD14012	12V DC	16	IP67
RTD14024	24V DC	16	IP67

Symbol : RT114xxx, RTB14xxx, RTD14012, RTD14024
 Manufacturer series : RT1
 Symbol : RT214xxx, RT314xxx
 Manufacturer series : RT/5

Relay: electromagnetic; miniature; OMRON Electronic Components

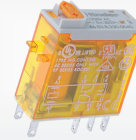


Manufacturer : OMRON Electronic Components
 Type of relay : electromagnetic
 Variant : miniature
 Contacts configuration : SPST-NO
 Switched voltage : max. 250V AC
 Operating temperature : -40...70°C
 Mounting : PCB
 Body dimensions : 23.8x10.3x24.9mm
 Contact resistance : 100mΩ
 Manufacturer series : G5PZ

Symbol	U _{coil} [V DC]	Contact current max. [A]	AC load rating @R*
G5PZ-1A-5DC	5	16	16A / 250V AC
G5PZ-1A-12DC	12	16	16A / 250V AC
G5PZ-1A-24DC	24	16	16A / 250V AC
G5PZ-1A-E-5DC	5	20	20A / 250V AC
G5PZ-1A-E-12DC	12	20	20A / 250V AC
G5PZ-1A-E-24DC	24	20	20A / 250V AC
G5PZ-1A4-E-12DC	12	20	20A / 250V AC
G5PZ-1A4-E-24DC	24	20	20A / 250V AC
G5PZ-1A4-E-18DC	18	20	20A / 250V AC
G5PZ-1A4-E-5DC	5	20	20A / 250V AC

* at resistive load

Relay: electromagnetic; miniature, industrial; FINDER



Manufacturer : FINDER
 Type of relay : electromagnetic
 Variant : miniature, industrial
 Body dimensions : 29x12.4x32.8mm
 Operating temperature : -40...70°C

Symbol	Con- tacts layout	U _{coil}	R _{coil}	P _{coil}	I _{contacts max}	AC load rating @R*	DC load rating @R*
		[Ω]		[A]			
46.52.8.012.0054	DPDT	12V AC	80	1.2 VA	15	8A / 250V AC	8A / 30V DC
46.52.8.024.004	DPDT	24V AC	320	1.2 VA	15	8A / 250V AC	8A / 30V DC
46.52.8.110.004	DPDT	110V AC	-	1.2 VA	15	8A / 250V AC	8A / 30V DC
46.52.8.230.004	DPDT	230V AC	28k	1.2 VA	15	8A / 250V AC	8A / 30V DC
46.52.8.230.005	DPDT	230V AC	28k	1.2 VA	15	8A / 250V AC	8A / 30V DC
46.52.8.230.5040	DPDT	230V AC	28k	1.2 VA	15	8A / 250V AC	8A / 30V DC
46.52.9.012.0040	DPDT	12V DC	300	500 mW	15	8A / 250V AC	8A / 30V DC
46.52.9.024.004	DPDT	24V DC	1.2k	500 mW	15	8A / 250V AC	8A / 30V DC
46.52.9.024.5000T	DPDT	24V DC	1.2k	500 mW	15	8A / 250V AC	8A / 30V DC
46.52.9.024.007	DPDT	24V DC	1.2k	500 mW	15	8A / 250V AC	8A / 30V DC
46.52.9.024.5040	DPDT	24V DC	1.2k	500 mW	15	8A / 250V AC	8A / 30V DC
46.52.9.048.0040	DPDT	48V DC	4.8k	500 mW	15	8A / 250V AC	8A / 30V DC
46.61.8.024.004	SPDT	24V AC	320	1.2 VA	25	16A / 250V AC	16A / 30V DC
46.61.8.110.0054	SPDT	110V AC	6.9k	1.2 VA	25	16A / 250V AC	16A / 30V DC
46.61.8.230.004	SPDT	230V AC	28k	1.2 VA	25	16A / 250V AC	16A / 30V DC
46.61.9.012.0040	SPDT	12V DC	300	500 mW	25	16A / 250V AC	16A / 30V DC
46.61.9.024.004	SPDT	24V DC	1.2k	500 mW	25	16A / 250V AC	16A / 30V DC

* at resistive load

Switched voltage (46.52.8.xxx, 46.52.9.012.0040, 46.52.9.024.004, 46.52.9.024.007, 46.52.9.024.5040, 46.52.9.048.0040, 46.61.xxx):

— max. 440V AC

Switched voltage (46.52.8.xxx, 46.52.9.012.0040, 46.52.9.024.004, 46.52.9.024.007, 46.52.9.024.5040, 46.52.9.048.0040, 46.61.xxx):

— max. 220V DC

Design (46.52.8.xxx, 46.52.9.012.0040, 46.52.9.024.004, 46.52.9.024.007, 46.52.9.024.5040, 46.52.9.048.0040, 46.61.xxx):

— test button

Term. pitch:

— 5mm (46.52.xxx)

— 5.2mm (46.61.xxx)

Indication (46.52.8.012.0054, 46.52.8.230.005, 46.52.9.024.007, 46.61.8.110.0054):

— LED

Manufacturer series:

— 46.52 (46.52.xxx)

— 46.61 (46.61.xxx)

Relay: electromagnetic; miniature; TE Connectivity

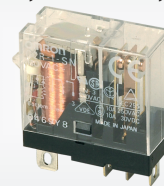


Manufacturer : TE Connectivity
 Type of relay : electromagnetic
 Mounting : THT
 Body dimensions : 29x15.7x12.7mm

Contacts configuration : SPDT
 Contact material : AgNi

Symbol	Coil voltage	Contact current max. [A]	IP rating
RT114012	12V DC	12	IP40
RT114024	24V DC	12	IP40
RT114524	24V AC	12	IP40
RT214012	12V DC	12	IP40
RT214024	24V DC	12	IP40
RT214524	24V AC	12	IP40

Relay: electromagnetic; miniature; OMRON



Manufacturer : OMRON
 Type of relay : electromagnetic
 Variant : miniature, industrial
 Mounting : socket
 Switched voltage : max. 380V AC
 Switched voltage : max. 125V DC
 Operating temperature : -40...70°C

Symbol	Contacts layout	Coil voltage	AC load rating @R*	DC load rating @R*
G2R-1-S-24AC	SPDT	24V AC	10A / 250V AC	10A / 30V DC
G2R-1-S-120AC	SPDT	120V AC	10A / 250V AC	10A / 30V DC

cont. on the next page

Relay: electromagnetic; miniature; OMRON (cont.)

Symbol	Contacts layout	Coil voltage	AC load rating @R*	DC load rating @R*
G2R-1-S-230AC	SPDT	230V AC	10A / 250V AC	10A / 30V DC
G2R-1-S-12DC	SPDT	12V DC	10A / 250V AC	10A / 30V DC
G2R-1-S-24DC	SPDT	24V DC	10A / 250V AC	10A / 30V DC
G2R-2-S-24AC	DPDT	24V AC	5A / 250V AC	5A / 30V DC
G2R-2-S-230AC	DPDT	230V AC	5A / 250V AC	5A / 30V DC
G2R-2-S-12DC	DPDT	12V DC	5A / 250V AC	5A / 30V DC
G2R-2-S-24DC	DPDT	24V DC	5A / 250V AC	5A / 30V DC

* at resistive load
 Manufacturer series:
 — G2R-1-S (**G2R-1-S-xxxC**)
 — G2R-2-S (**G2R-2-S-xxxC**)

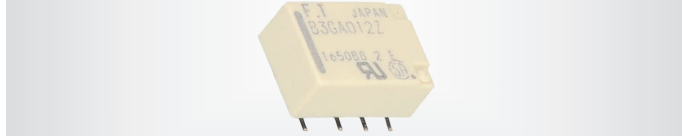
Relay: electromagnetic; subminiature; HONGFA RELAY



Manufacturer : HONGFA RELAY
 Type of relay : electromagnetic
 Mounting : PCB
 Contact resistance : 100mΩ
 Term. pitch : 7.6mm
 Switched voltage : max. 250V AC
 Switched voltage : max. 30V DC
 Body dimensions : 20.5x15.3x10.2mm
 Operating temperature : -40...70°C
 Contact current max. : 10A
 AC load rating @R* : 5A / 250V AC
 DC load rating @R* : 5A / 30V DC

Symbol	Contacts configuration	U _{coil} [V DC]	P _{coil} [mW]	Contact material
HF33F/012-HL3	SPST-NO	12	200	AgNi
HF33F/012-HSL3	SPST-NO	12	200	AgNi
HF33F/012-ZST	SPDT	12	450	AgSnO ₂
HF33F/024-HL3	SPST-NO	24	200	AgNi
HF33F/024-ZS3	SPDT	24	450	AgNi
HF33F/024-ZSTF	SPDT	24	450	AgSnO ₂

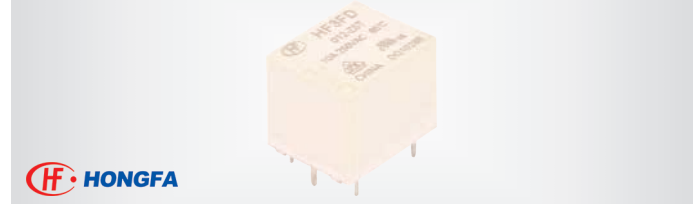
Relay: electromagnetic; subminiature; FCL Components



Manufacturer : FCL Components
 Type of relay : electromagnetic
 Variant : subminiature, signal
 Contacts configuration : DPDT
 Contact current max. : 2A
 Switched voltage : max. 250V AC
 Switched voltage : max. 220V DC
 AC load rating @R* : 0.3A / 125V AC
 DC load rating @R* : 1A / 30V DC
 Contact material : AgNi + Au
 Contact resistance : 75mΩ
 Term. pitch : 2.2mm
 Operating temperature : -40...85°C
 Manufacturer series : FTR-B3

Symbol	Mounting	U _{coil} [V DC]	R _{coil} [Ω]	P _{coil} [mW]	Body dimensions [mm]
FTR-B3CA003Z	THT	3	64.3	140	10.6x7.2x5.2
FTR-B3CA012Z	THT	12	1028	140	10.6x7.2x5.2
FTR-B3CA024Z	THT	24	2504	230	10.6x7.2x5.2
FTR-B3GA003Z	SMT	3	64.3	140	10.6x7.2x5.45
FTR-B3GA4.5Z-B10	SMT	4.5	145	140	10.6x7.2x5.45
FTR-B3GA012Z	SMT	12	1028	140	10.6x7.2x5.45
FTR-B3GA012Z-B10	SMT	12	1028	140	10.6x7.2x5.45
FTR-B3GA024Z	SMT	24	2504	230	10.6x7.2x5.45
FTR-B3GA024Z-B10	SMT	24	2504	230	10.6x7.2x5.45
FTR-B3GB003Z	SMT	3	90	100	10.6x7.2x5.45

Relay: electromagnetic; HONGFA RELAY

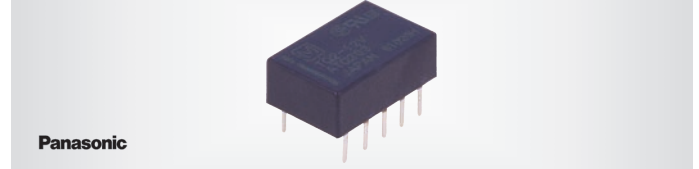


Manufacturer : HONGFA RELAY
 Type of relay : electromagnetic
 Mounting : PCB
 Contact resistance : 100mΩ
 Switched voltage : max. 277V AC
 Contact material : AgSnO₂

Symbol	Contacts configuration	U _{coil} [V DC]	AC load rating @R*
HF3FA/005-ZT	SPDT	5	10A / 277V AC
HF3FA/012-ZT	SPDT	12	10A / 277V AC
HF3FD/012-ZST	SPDT	12	10A / 250V AC
HF3FD/012-ZSTF	SPDT	12	10A / 250V AC
HF3FD/012-ZTF	SPDT	12	10A / 250V AC
HF3FF/012-1ZST	SPDT	12	10A / 277V AC
HF3FA/024-ZTF	SPDT	24	10A / 277V AC
HF3FD/024-ZST	SPDT	24	10A / 250V AC
HF3FD/024-ZSTF	SPDT	24	10A / 250V AC
HF3FF/024-1ZST	SPDT	24	10A / 277V AC
HF3FF/024-1ZT	SPDT	24	10A / 277V AC
HF3FD/012-HST	SPST-NO	12	10A / 250V AC
HF3FF/024-1HST	SPST-NO	24	10A / 277V AC

* at resistive load

Relay: electromagnetic; PANASONIC



Manufacturer : PANASONIC
 Type of relay : electromagnetic
 Contact current max. : 2A
 AC load rating @R* : 0.5A / 125V AC
 DC load rating @R* : 1A / 30V DC
 Manufacturer series : TQ

Symbol	Contacts configuration	U _{coil} [V DC]	Switched voltage [V DC]	Switched voltage [V AC]	U _{coil} min [V DC]
TQ2-5V	DPDT	5	max. 110	max. 125	-
TQ2-12V	DPDT	12	max. 110	max. 125	6.75
TQ2-24V	DPDT	24	max. 110	max. 125	-
TQ2-L-5V	DPDT	5	max. 110	max. 125	-
TQ2-L-12V	DPDT	12	max. 110	max. 125	-

Relay: electromagnetic; industrial; FINDER



Manufacturer : FINDER
 Type of relay : electromagnetic
 Variant : industrial
 Mounting : socket
 Switched voltage : max. 220V DC
 Body dimensions : 27.7x20.7x35.8mm
 Operating temperature : -40...85°C

Symbol	Contacts layout	Coil voltage	Contact current max. [A]
55.32.9.012.0040	DPDT	12V DC	20
55.32.9.024.004	DPDT	24V DC	20
55.32.9.220.004	DPDT	220V DC	20
55.32.8.024.004	DPDT	24V AC	20
55.32.8.110.004	DPDT	110V AC	20
55.32.8.230.004	DPDT	230V AC	20
55.33.9.024.001	3PDT	24V DC	20
55.33.9.220.001	3PDT	220V DC	20
55.33.8.024.001	3PDT	24V AC	20
55.33.8.110.001	3PDT	110V AC	20

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Relays and contactors

Relay: electromagnetic; industrial; FINDER (cont.)

Symbol	Contacts layout	Coil voltage	Contact current max. [A]
55.33.8.230.001	3PDT	230V AC	20
55.34.9.024.004	4PDT	24V DC	15
55.34.9.110.0040	4PDT	110V DC	15
55.34.9.220.004	4PDT	220V DC	15

Manufacturer series:

- 55.32 (55.32.xxx)
- 55.33 (55.33.xxx.001)
- 55.34 (55.34.9.xxx)

Relay: electromagnetic; industrial; RELPOL



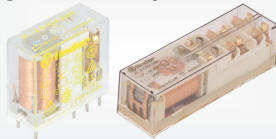
Manufacturer : RELPOL
 Type of relay : electromagnetic
 Variant : industrial
 Mounting : socket
 Contacts configuration : 4PDT
 Contact current max. : 6A
 Max surge current : 12A
 Switched voltage : max. 250V AC
 Switched voltage : max. 250V DC
 AC load rating @R* : 6A / 250V AC
 DC load rating @R* : 6A / 24V DC
 Contact resistance : 100mΩ
 Leads : connectors
 Body dimensions : 27.5x21.2x35.6mm
 Manufacturer series : R4N
 Leads dimensions : 2.2x0.5mm
 * at resistive load

Symbol	Coil voltage	Coil power	Contact material
R4N2014231012WT	12V DC	0.9 W	AgNi
R4N2014231024WT	24V DC	0.9 W	AgNi
R4N2014231110WT	110V DC	0.9 W	AgNi
R4N2014231125WT	125V DC	0.9 W	AgNi
R4N2014231220WT	220V DC	0.9 W	AgNi
R4N2014235012WT	12V AC	1.6 VA	AgNi
R4N2014235024WT	24V AC	1.6 VA	AgNi
R4N2014235110WT	110V AC	1.6 VA	AgNi
R4N2014235230WT	230V AC	1.6 VA	AgNi

Related articles:

Symbol	Product description
G4	Socket;PIN:14;6A;250VAC;on panel;for soldering;-40÷70°C
GZ4	Socket;PIN:14;6A;250VAC;for DIN rail mounting;-40÷70°C
GZM4	Socket;PIN:14;6A;300VAC;on panel;for DIN rail mounting
GZT4	Socket;PIN:14;6A;250VAC;for DIN rail mounting;-40÷70°C
SU4D	Socket;PIN:14;PCB;R4

Relay: electromagnetic; safety; FINDER



Manufacturer : FINDER
 Type of relay : electromagnetic
 Variant : safety
 Mounting : PCB
 Contact current max. : 15A
 Switched voltage : max. 400V AC
 Switched voltage : max. 220V DC
 AC load rating @R* : 8A / 250V AC
 DC load rating @R* : 8A / 30V DC
 Term. pitch : 5mm
 Operating temperature : -40...70°C
 * at resistive load

Symbol	Contacts configuration	U _{coil} [V DC]	R _{coil} [Ω]	I _{coil} [mA]	P _{coil} [mW]
50.12.9.012.1000	DPDT	12	205	58.5	700
50.12.9.024.1000	DPDT	24	820	29.3	700
50.12.9.024.5000	DPDT	24	820	29.3	700
50.12.9.048.1000	DPDT	48	3.25k	14.4	700
50.14.9.024.4310	SPST-NO x3 + SPST-NC x1	24	720	33.3	800
50.16.9.024.5420	SPST-NO x4 + SPST-NC x2	24	720	33.3	800

Manufacturer series:

- 50.12 (50.12.9.0xxx000)
- 50.14 (50.14.9.024.4310)

— 50.16 (50.16.9.024.5420)

Relay: installation; PEM; ZAMEL



Manufacturer : ZAMEL
 Type of relay : installation
 Variant : monostable
 Mounting : for DIN rail mounting
 Leads : screw terminals
 Switched voltage : max. 250V AC
 Body dimensions : 90x17.5x66mm
 Operating temperature : -20...45°C
 IP rating : IP20
 Indication : LED
 Manufacturer series : PEM

Symbol	Contacts layout	U _{coil}	Max. operating current [A]
PEM-01/012	SPDT	12V AC, 12V DC	16
PEM-01/024	SPDT	24V AC, 24V DC	16
PEM-01/230	SPDT	230V AC	16
PEM-02/012	DPDT	12V AC, 12V DC	8
PEM-02/024	DPDT	24V AC, 24V DC	8
PEM-02/230	DPDT	230V AC	8

Small width relays, 34 series



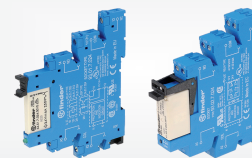
Manufacturer : FINDER
 Type of relay : electromagnetic
 Variant : interface
 Mounting : PCB, socket
 Contacts configuration : SPDT
 Contact current max. : 6A
 Switched voltage : max. 250V AC
 Switched voltage : max. 220V DC
 AC load rating @R* : 6A / 250V AC
 DC load rating @R* : 6A / 30V DC
 Term. pitch : 5mm
 Body dimensions : 28x5x15mm
 Operating temperature : -40...85°C
 Manufacturer series : 34.51
 * at resistive load

Symbol	U _{coil} [V DC]	R _{coil} [Ω]	I _{coil} [mA]	P _{coil} [mW]
34.51.7.005.001	5	130	38.4	170
34.51.7.012.001	12	840	14.2	170
34.51.7.024.001	24	3.35k	7.1	170
34.51.7.048.001	48	12.3k	3.9	170
34.51.7.060.001	60	19.7k	3	170
34.51.7.005.5010	5	130	38.4	170
34.51.7.012.5010	12	840	14.2	170
34.51.7.024.5010	24	3.35k	7.1	170

Related articles:

Symbol	Product description
93.01.7.024	Socket;PIN:5;6A;250VAC;for DIN rail mounting;screw terminals
93.01.7.060	Socket;PIN:5;6A;250VAC;for DIN rail mounting;screw terminals
93.11	Socket;PIN:5;6A;250VAC;PCB;for PCB;-40÷70°C;IP20;5÷60VDC

Relay: interface; FINDER



Manufacturer : FINDER
 Type of relay : interface
 Variant : Relay set
 Mounting : for DIN rail mounting

cont. on the next page

Relay: interface; FINDER (cont.)

Symbol	Contacts layout	U _{coil}	I _{oper. max} [A]	AC load rating @R*	DC load rating @R*
38.51.0.012.006	SPDT	12V AC, 12V DC	6	6A / 250V AC	6A / 30V DC
38.51.0.024.006	SPDT	24V AC, 24V DC	6	6A / 250V AC	6A / 30V DC
38.61.0.024.0060	SPDT	24V AC, 24V DC	6	6A / 250V AC	6A / 30V DC
38.51.0.048.006	SPDT	48V AC, 48V DC	6	6A / 250V AC	6A / 30V DC
38.51.0.060.006	SPDT	60V AC, 60V DC	6	6A / 250V AC	6A / 30V DC
38.51.0.125.006	SPDT	125V AC, 125V DC	6	6A / 250V AC	6A / 30V DC
38.51.0.240.006	SPDT	220V DC	6	6A / 250V AC	6A / 30V DC
38.52.0.012.006	DPDT	12V AC, 12V DC	8	8A / 250V AC	8A / 30V DC
38.52.0.024.006	DPDT	24V AC, 24V DC	8	8A / 250V AC	8A / 30V DC
38.52.0.048.006	DPDT	48V AC, 48V DC	8	8A / 250V AC	8A / 30V DC
38.52.0.060.006	DPDT	60V AC, 60V DC	8	8A / 250V AC	8A / 30V DC
38.52.0.125.006	DPDT	125V AC, 125V DC	8	8A / 250V AC	8A / 30V DC
38.52.0.240.006	DPDT	240V AC, 240V DC	8	8A / 250V AC	8A / 30V DC

* at resistive load

Manufacturer series:

- 38.51 (38.51.0.xxx.006)
- 38.61 (38.61.0.024.0060)
- 38.52 (38.52.0.xxx.006)

Relay: interface; MURRELEKTRONIK



Manufacturer : MURRELEKTRONIK
 Type of relay : interface
 Mounting : for DIN rail mounting
 Max. operating current : 6A
 Leads : screw terminals
 Switched voltage : max. 250V AC
 Switched voltage : max. 250V DC
 AC load rating @R* : 6A / 250V AC
 Contacts configuration : SPDT
 Manufacturer series : MIRO 6.2

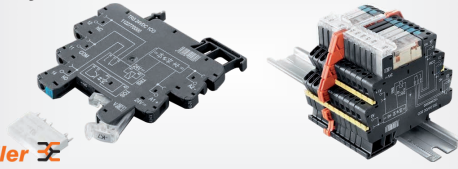
* at resistive load

Variant : opto isolator, Relay set

Symbol	DC load rating @R*	Body dimensions [mm]	U _{coil}	P _{coil} [mW]
MURR-52000	6A / 20V DC	90x6.2x65	24V DC	350
MURR-52001	1A / 24V DC	91x6.2x70	24V DC	400
MURR-52030	0.2A / 110V DC	91x6.2x71	110V AC, 110V DC	420

* at resistive load

Relay; Relays accessories; WEIDMÜLLER



Manufacturer : WEIDMÜLLER
 Mounting : for DIN rail mounting

Symbol	Contacts layout	Cntrl volt.	Switch. volt. [V DC]	U _{switch.} [V AC]	I _{oper. max} [A]
TOS-24DC/230AC-01A	SPST-NO	24V DC	-	24...230	0.1
TOS-24VDC-24VDC2A	SPST-NO	24V DC	3...33	-	2
TOZ-24-230VUC-0.1A	SPDT	24...230V AC, 24...230V DC	3...48	-	0.1
TRP-24VDC-1CO-16A	SPDT	24V DC	-	max. 250	16
TRP-24VUC-1CO-16A	SPDT	24V AC, 24V DC	-	max. 250	16
TRS-24-230UC-1CO16	SPDT	24...230V AC, 24...230V DC	-	max. 250	16
TRS-24-230VUC-2CO	DPDT	24...230V AC, 24...230V DC	-	max. 250	8
TRS-24VDC-1CO-16A	SPDT	24V DC	-	max. 250	16
TRZ-12VDC-1CO-16A	SPDT	12V DC	-	max. 250	16
TRZ-230VUC-1CO	SPDT	-	max. 250	max. 250	6
TRZ24-230UC-1CO-16	SPDT	24...230V AC, 24...230V DC	-	max. 250	16
TRZ-24-230VUC-1CO	SPDT	24...230V AC, 24...230V DC	max. 250	max. 250	6
TRZ-24VDC-1CO-16A	SPDT	24V DC	-	max. 250	16

Relay: solid state; SUL; CELDUC



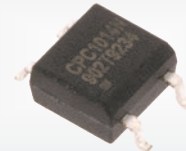
Manufacturer : CELDUC
 Type of relay : solid state
 Variant : 1-phase
 Manufacturer series : SUL
 Mounting : for DIN rail mounting
 IP rating : IP20
 Design : heatsink
 Body dimensions : 22.5x90x98mm
 Related items : ESUC0450, ESUC0480

Switching method* : zero voltage switching

* the position in bracket indicates momentary position.

Symbol	I _{oper. max} [A]	Cntrl volt.	Switch. volt. [V AC]	Operating temp. [°C]
SUL842770	25	18...30V AC, 18...30V DC	12...275	-55...100
SUL842970	25	160...240V AC	12...275	-55...100
SUL842070	25	3...32V DC	12...275	-55...100
SUL942460	25	3...32V DC	12...280	-55...100
SUL963460	30	3.5...32V DC	24...600	-55...100
SUL865770	32	18...30V AC, 18...30V DC	24...510	-55...100
SUL865970	32	160...240V AC	24...510	-55...100
SUL865070	32	3.5...32V DC	24...510	-55...100
SUL965460	32	3.5...32V DC	24...600	-55...100
SUL967460	35	3.5...32V DC	24...600	-40...100

Relay: solid state; IXYS



Manufacturer : IXYS

Type of relay : solid state

Symbol	Contacts layout	Case	Control curr. max. [mA]	Max. operating current [mA]
CPC1002N	SPST-NO	SOP4	50	700
CPC1004N	SPST-NO	SOP4	50	300
CPC1006N	SPST-NO	SOP4	50	75
CPC1008N	SPST-NO	SOP4	50	150
CPC1009N	SPST-NO	SOP4	50	150
CPC1010N	SPST-NO	SOP4	50	170
CPC1014N	SPST-NO	SOP4	50	400
CPC1016N	SPST-NO	SOP4	50	100
CPC1017N	SPST-NO	SOP4	50	100
CPC1018N	SPST-NO	SOP4	50	600
CPC1019N	SPST-NO	SOP4	50	750
CPC1020N	SPST-NO	SOP4	50	1200
CPC1025N	SPST-NO	SOP4	50	120
CPC1030N	SPST-NO	SOP4	50	120
CPC1035N	SPST-NO	SOP4	50	100
CPC1106N	SPST-NC	SOP4	50	75
CPC1114N	SPST-NC	SOP4	50	400
CPC1117N	SPST-NC	SOP4	50	150
CPC1125N	SPST-NC	SOP4	50	100
CPC1130N	SPST-NC	SOP4	50	120
CPC1135N	SPST-NC	SOP4	50	120
CPC1150N	SPST-NC	SOP4	50	120

Relay: solid state; RM1; CARLO GAVAZZI



Manufacturer : CARLO GAVAZZI
 Type of relay : solid state
 Manufacturer series : RM1
 Variant : 1-phase
 Body dimensions : 44.8x58.2x28.8mm
 Operating temperature : -20...70°C
 IP rating : IP20

cont. on the next page

Relays and contactors

Relay: solid state; RM1; CARLO GAVAZZI (cont.)

Symbol	Switch. method*	I _{oper. max} [A]	U _{cntrl}	U _{switch.} [V AC]
RM1A23A25	zero voltage switching	25	20...280V AC, 22...48V DC	24...265
RM1A23A75	zero voltage switching	75	20...280V AC, 22...48V DC	24...265
RM1A40A50	zero voltage switching	50	20...280V AC, 22...48V DC	42...440
RM1A40A100	zero voltage switching	100	20...280V AC, 22...48V DC	42...440
RM1A48A50	zero voltage switching	50	20...280V AC, 22...48V DC	42...530
RM1A48A100	zero voltage switching	100	20...280V AC, 22...48V DC	42...530
RM1A60A50	zero voltage switching	50	20...280V AC, 22...48V DC	42...660
RM1A60A100	zero voltage switching	100	20...280V AC, 22...48V DC	42...660
RM1A23D25	zero voltage switching	25	3...32V DC	24...265
RM1A23D50	zero voltage switching	50	3...32V DC	24...265
RM1A23D100	zero voltage switching	100	3...32V DC	24...265
RM1B23D25	instantaneous switching	25	3...32V DC	42...265
RM1B23D75	instantaneous switching	75	3...32V DC	42...265
RM1B23D100	instantaneous switching	100	3...32V DC	42...265
RM1B40D25	instantaneous switching	25	3...32V DC	42...440
RM1A40D75	zero voltage switching	75	3...32V DC	42...440
RM1B40D75	instantaneous switching	75	3...32V DC	42...440
RM1A40D100	zero voltage switching	100	3...32V DC	42...440
RM1B40D100	instantaneous switching	100	3...32V DC	42...440
RM1B48D25	instantaneous switching	25	3...32V DC	42...530
RM1B48D75	instantaneous switching	75	3...32V DC	42...530
RM1A48D100	zero voltage switching	100	3...32V DC	42...530
RM1B60D25	instantaneous switching	25	3...32V DC	42...660
RM1B60D50	instantaneous switching	50	3...32V DC	42...660
RM1B60D75	instantaneous switching	75	3...32V DC	42...660
RM1A60D100	zero voltage switching	100	3...32V DC	42...660
RM1B60D100	instantaneous switching	100	3...32V DC	42...660
RM1A40D50	zero voltage switching	50	4...32V DC	42...440
RM1A48D25	zero voltage switching	25	4...32V DC	42...530
RM1A48D75	zero voltage switching	75	4...32V DC	42...530
RM1A60D25	zero voltage switching	25	4...32V DC	42...660

* the position in bracket indicates momentary position.

Symbol	Case	Control current max. [mA]	Max. operating current [mA]	Switched voltage [V DC]	Switched voltage [V AC]	On-state resist. [Ω]
AQV212	DIP6	3	550	max. 60	max. 60	0.83
AQV214	DIP6	3	120	max. 400	max. 400	30
AQV215S	SOP6	3	300	max. 100	max. 100	2.3
AQV251J	DIP6	3	500	max. 40	max. 40	0.6
AQV252J	DIP6	3	400	max. 60	max. 60	0.74
AQV253	DIP6	3	200	max. 250	max. 250	5.5
AQV254H	DIP6	3	150	max. 400	max. 400	12.4
AQV258J	DIP6	3	20	max. 1.5k	max. 1.5k	345
AQV259J	DIP6	3	30	max. 1k	max. 1k	85
AQW214	DIP8	3	100	max. 400	max. 400	30
AQW215A	DIP8	3	300	max. 100	max. 100	2.3
AQW610S	SOP8	3	100	max. 350	max. 350	18
AQY210S	SOP4	3	120	max. 350	max. 350	17
AQY212S	SOP4	3	500	max. 60	max. 60	0.83
AQY214S	SOP4	3	100	max. 400	max. 400	25
AQY232S	SOP4	0.5	500	max. 60	max. 60	0.85
AQY272	DIP4	3	2000	max. 60	max. 60	0.11
AQY282S	SOP4	3	500	max. 60	max. 60	2.5
AQY410SJ	SOP4	3	120	max. 350	max. 350	18

Symbol	Manufacturer series
AQV212	AQV21
AQV251J	AQV25
AQV252J	AQV25
AQV258J	AQV25
AQV259J	AQV25
AQY410SJ	AQY41

Relay: solid state; 3-phase; RZ3; CARLO GAVAZZI



Manufacturer : CARLO GAVAZZI
 Manufacturer series : RZ3
 Variant : 3-phase
 Switch. method* : zero voltage switching
 IP rating : IP10
 Type of relay : solid state
 Body dimensions : 73.5x103x41mm
 Operating temperature : -30...80°C
 * the position in bracket indicates momentary position.

Symbol	I _{oper. max} [A]	U _{cntrl}	U _{switch.} [V AC]
RZ3A40A25P	25	24...275V AC, 24...50V DC	24...440
RZ3A40A40P	40	24...275V AC, 24...50V DC	24...440
RZ3A40A55	55	24...275V AC, 24...50V DC	24...440
RZ3A40D25P	25	4...32V DC	24...440
RZ3A40D40P	40	4...32V DC	24...440
RZ3A40D55	55	4...32V DC	24...440
RZ3A40D75	75	4...32V DC	24...440
RZ3A48A25	25	24...275V AC, 20...50V DC	42...530
RZ3A48A55	55	24...275V AC, 20...50V DC	42...530
RZ3A60A25P	25	24...275V AC, 20...50V DC	42...660
RZ3A60A55P	55	24...275V AC, 20...50V DC	42...660
RZ3A60A75	75	24...275V AC, 20...50V DC	42...660
RZ3A60A25	25	24...275V AC, 24...50V DC	42...660
RZ3A60A40	40	24...275V AC, 24...50V DC	42...660
RZ3A60A55	55	24...275V AC, 24...50V DC	42...660
RZ3A60D25	25	4...32V DC	42...660
RZ3A60D40	40	4...32V DC	42...660
RZ3A60D55P	55	4...32V DC	42...660
RZ3A60D75P	75	4...32V DC	42...660
RZ3A69A75	75	24...275V AC, 20...50V DC	42...750

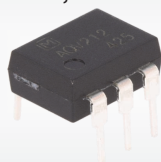
Relay: solid state; 1-phase; OMRON Electronic Components



Manufacturer : OMRON Electronic Components

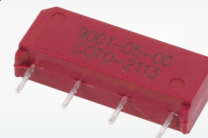
Symbol	Type of relay	Case	Contacts layout	Max. operating current [mA]	Switched voltage [V AC]	Switched voltage [V DC]	Manufacturer series
G3VM-601AY	solid state	DIP4	SPST-NO	90	max. 600	max. 600	G3VM
G3VM-601BY	solid state	DIP6	SPST-NO	100	max. 600	max. 600	G3VM
G3VM-351G1	solid state	SOP4	SPST-NO	100	max. 350	max. 350	G3VM
G3VM-401B	solid state	DIP6	SPST-NO	120	max. 320	max. 320	G3VM
G3VM-402C	solid state	DIP8	DPST-NO	120	max. 400	max. 400	G3VM
G3VM-402F	solid state	DIP8	DPST-NO	120	max. 400	max. 400	G3VM
G3VM-353H	solid state	SOP6	SPST-NC	120	max. 350	max. 350	G3VM
G3VM-354J	solid state	SOP8	DPST-NO	120	max. 350	max. 350	G3VM
G3VM-353E	solid state	DIP6	SPST-NC	150	max. 350	max. 350	G3VM
G3VM-354C	solid state	DIP8	DPST-NC	150	max. 350	max. 350	G3VM
G3VM-354F	solid state	DIP8	DPST-NC	150	max. 350	max. 350	G3VM
G3VM-202J1	solid state	SOP8	DPST-NO	200	max. 200	max. 200	G3VM
G3VM-201AY1	solid state	DIP4	SPST-NO	250	max. 200	max. 200	G3VM
G3VM-51UV	solid state	VSON4	SPST-NO	300	max. 50	max. 50	G3VM
G3VM-61AY	solid state	DIP4	SPST-NO	500	max. 60	max. 60	G3VM
G3VM-201AR	solid state	DIP4	SPST-NO	700	max. 200	max. 200	G3VM
G3VM-101AR	solid state	DIP4	SPST-NO	1000	max. 100	max. 100	G3VM
G3VM-101DR	solid state	DIP4	SPST-NO	1000	max. 100	max. 100	G3VM
G3VM-41AY	solid state	DIP4	SPST-NO	2000	max. 40	max. 40	G3VM
G3VM-101BR	solid state	DIP6	SPST-NO	2000	max. 80	max. 80	G3VM
G3VM-41AR	solid state	DIP4	SPST-NO	2500	max. 40	max. 40	G3VM
G3VM-21AR	solid state	DIP4	SPST-NO	3000	max. 20	max. 20	G3VM
G3VM-31AR	solid state	DIP4	SPST-NO	4000	max. 30	max. 30	G3VM
G3VM-21BR	solid state	DIP6	SPST-NO	4000	max. 20	max. 20	G3VM
G3VM-61ER2	solid state	DIP6	SPST-NO	4000	max. 60	max. 60	G3VM
G3VM-31BR	solid state	DIP6	SPST-NO	5000	max. 30	max. 30	G3VM

Relay: solid state; 1-phase, PhotoMOS; PANASONIC



Manufacturer : PANASONIC
 Type of relay : solid state
 Variant : 1-phase, PhotoMOS
 Operating temperature : -40...85°C

Relay: reed switch; COTO TECHNOLOGY



Manufacturer : COTO TECHNOLOGY
Type of relay : reed switch

Symbol	Mounting	Contacts configuration	U _{coil} [V DC]	Switching capacity [W]
9001-05-00	THT	SPST-NO	5	10
9001-05-02	THT	SPST-NO	5	10
9001-12-00	THT	SPST-NO	12	10
9002-05-00	THT	SPST-NO	5	10
9002-12-01	THT	SPST-NO	12	10

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Relay: reed switch; COTO TECHNOLOGY (cont.)

Symbol	Mounting	Contacts configuration	U _{coil} [V DC]	Switching capacity [W]
9007-05-00	THT	SPST-NO	5	10
9007-05-01	THT	SPST-NO	5	10
9011-05-11	THT	SPST-NO	5	3
9012-05-11	THT	SPST-NO	5	10
9012-12-11	THT	SPST-NO	12	10
9117-05-10	THT	SPST-NO	5	3
9117-05-11	THT	SPST-NO	5	3
9092-05-11	THT	SPST-NO	5	10
9104-05-11	THT	SPST-NO	5	10
9814-05-00	SMT	SPST-NO	5	3
9814-05-20	SMT	SPST-NO	5	3
9852-05-00	SMT	SPDT	5	3
9852-05-20	SMT	SPDT	5	3
9901-05-20	SMT	SPST-NO	5	3
9903-05-20	SMT	SPDT	5	3

Switching capacity : 10W
 Contact resistance : 150mΩ
 Terminal pitch : 5.08mm
 Operating temperature : -40...85°C
 Body dim. : 5.08x7.45x19.05mm
 Manufacturer series : HE3600

Symbol	U _{coil} [V DC]	P _{coil} [mW]	R _{coil} [Ω]	Symbol	U _{coil} [V DC]	P _{coil} [mW]	R _{coil} [Ω]
HE3621A0500	5	50	500	HE3621A1210	12	144	1000
HE3621A0510	5	50	500	HE3621A2400	24	267	2150

Relay: reed switch; MEDER



Manufacturer : MEDER
 Type of relay : reed switch
 Mounting : PCB
 Contacts configuration : SPST-NO
 Contact current max. : 5A
 Switched voltage : max. 7500V AC
 Switched voltage : max. 7.5kV DC
 Contact resistance : 150mΩ
 Body dimensions : 65x15.5x14.5mm
 Operating temperature : -20...70°C
 Manufacturer series : HE

Symbol	U _{coil} [V DC]	R _{coil} [Ω]	P _{coil} [mW]	Symbol	U _{coil} [V DC]	R _{coil} [Ω]	P _{coil} [mW]
HE051A83	5	50	500	HE241A83	24	1.05k	549
HE05-1A83-03	5	48	521	HE24-1A83-03	24	1.05k	549
HE121A83	12	260	554				

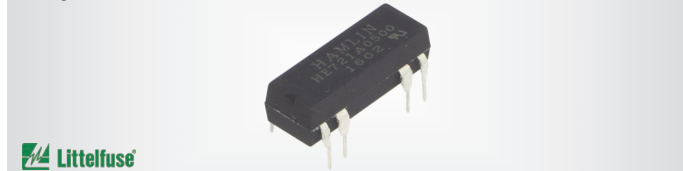
Contactor: 3-pole; SCHNEIDER ELECTRIC



Manufacturer : SCHNEIDER ELECTRIC
 Type of contactor : 3-pole
 Contacts configuration : NO x3
 Mounting : on panel, for DIN rail mounting
 Leads : screw terminals
 Insulation voltage : 690V
 Manufacturer series : TeSys D

Symbol	Auxiliary contacts	Operating temperature [°C]	I _{oper. max} [A]	U _{cntrl}	P _{switch} [kW]
LC1D09P7	NO + NC	-25...55	9	230V AC	4
LC1D09BD	NO + NC	-25...55	9	24V DC	4
LC1D12P7	NO + NC	-25...55	12	230V AC	5.5
LC1D12BD	NO + NC	-25...55	12	24V DC	5.5
LC1D18P7	NO + NC	-25...55	18	230V AC	7.5
LC1D18BD	NO + NC	-25...55	18	24V DC	7.5
LC1D25P7	NO + NC	-25...55	25	230V AC	11
LC1D25BD	NO + NC	-25...55	25	24V DC	11
LC1D32P7	NO + NC	-25...55	32	230V AC	15
LC1D32BD	NO + NC	-25...55	32	24V DC	15
LC1D38P7	NO + NC	-25...55	38	230V AC	18.5
LC1D38BD	NO + NC	-25...55	38	24V DC	18.5
LC1D80P7	NO + NC	-5...60	80	230V AC	37
LC1D80BD	NO + NC	-5...60	80	24V DC	37
LC1D95P7	NO + NC	-5...60	95	230V AC	45
LC1D95BD	NO + NC	-5...60	95	24V DC	45
LC1D115P7	NO + NC	-5...60	115	230V AC	55
LC1D115BD	NO + NC	-5...60	115	24V DC	55
LC1D150P7	NO + NC	-40...60	150	230V AC	75
LC1D150BD	NO + NC	-40...60	150	24V DC	75

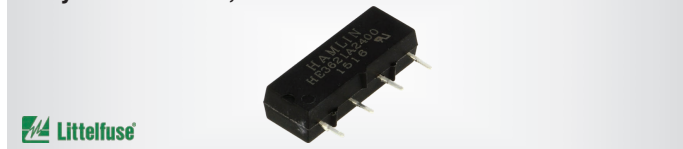
Relay: reed switch; LITTELFUSE



Type of relay : reed switch
 Mounting : PCB
 Case : DIP
 Term. pitch : 2.54mm
 Body dimensions : 5.5x7.22x19.05mm
 Manufacturer : LITTELFUSE
 Manufacturer series : HE700

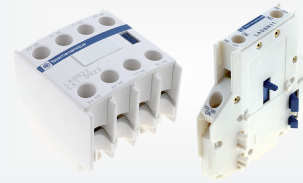
Symbol	Contacts layout	U _{coil min} [V DC]	U _{coil max} [V DC]	U _{coil} [V DC]	P _{coil} [mW]	R _{coil} [Ω]
HE721A0500	SPST-NO	3.75	12	5	50	500
HE721A2410	SPST-NO	16	46	24	268	2150
HE721C0500	SPDT	3.75	14	5	125	200
HE721C1200	SPDT	9	22	12	288	500
HE721C2400	SPDT	18	44	24	288	2000
HE722A0510	DPST-NO	3.75	12	5	125	200
HE722A1210	DPST-NO	8	22	12	288	500
HE751A0510	SPST-NO	3.75	12	5	50	500

Relay: reed switch; LITTELFUSE



Manufacturer : LITTELFUSE
 Type of relay : reed switch
 Mounting : PCB
 Contacts configuration : SPST-NO
 Case : SIL
 Contact current max. : 500mA
 Switched voltage : max. 200V DC

Supportive contacts for contactors, TeSys D series



Manufacturer : SCHNEIDER ELECTRIC
 Leads : screw terminals

Application - series/manufacturer : TeSys D

Symbol	Contactors accessories	Contacts configuration	Mounting
LADN01	auxiliary contacts	NC	front
LADN10	auxiliary contacts	NO	front
LADN11	auxiliary contacts	NC + NO	front
LADN02	auxiliary contacts	NC x2	front
LADN20	auxiliary contacts	NO x2	front
LADN22	auxiliary contacts	NC x2 + NO x2	front
LADN13	auxiliary contacts	NC x3 + NO	front
LADN31	auxiliary contacts	NC + NO x3	front
LADN04	auxiliary contacts	NC x4	front
LADN40	auxiliary contacts	NO x4	front
LAD8N11	auxiliary contacts	NC + NO	side
LAD8N02	auxiliary contacts	NC x2	side
LAD8N20	auxiliary contacts	NO x2	side
LADT0	time delay contacts	NC + NO	front
LADT2	time delay contacts	NC + NO	front
LADT4	time delay contacts	NC + NO	front
LADS2	time delay contacts	NC + NO	front
LADR0	time delay contacts	NC + NO	front
LADR2	time delay contacts	NC + NO	front
LADR4	time delay contacts	NC + NO	front

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Supportive contacts for contactors, TeSys D series (cont.)

Symbol	Operation modes	Actuat. delay [s]
LADT0	delayed switching on	0.1...3
LADT2	delayed switching on	0.1...30
LADT4	delayed switching on	10...180
LADS2	delayed switching on	1...30
LADR0	delayed switching off	0.1...3
LADR2	delayed switching off	0.1...30
LADR4	delayed switching off	10...180

Contactor: 3-pole; EATON ELECTRIC



Contactors are characterized by special 2-cage terminals, ensuring good connection of wires with different cross sections to the same terminal.

Manufacturer : EATON ELECTRIC
 Type of contactor : 3-pole
 Contacts configuration : NO x3
 Mounting : on panel, for DIN rail mounting
 Leads : screw terminals
 Insulation voltage : 690V
 Operating temperature : -25...40°C

Symbol	U _{cntrl}	I _{oper. max} [A]	Auxiliary contacts
DILM7-01-24VDC	24V DC	7	NC
DILM7-10-230V	230V AC	7	NO
DILM9-01-230V	230V AC	9	NC
DILM9-10-24VDC	24V DC	9	NO
DILM12-01-230V	230V AC	12	NC
DILM12-10-24VDC	24V DC	12	NO
DILM15-01-24VDC	24V DC	15	NC
DILM15-10-230VAC	230V AC	15	NO
DILM17-01-230V	230V AC	17	NC
DILM17-10-24VDC	24V DC	17	NO
DILM25-01-24VDC	24V DC	25	NC
DILM25-10-230V	230V AC	25	NO
DILM32-01-230V	230V AC	32	NC
DILM32-01-24VDC	24V DC	32	NC
DILM32-10-230V	230V AC	32	NO
DILM38-01-230VAC	230V AC	38	NC
DILM38-01-24VDC	24V DC	38	NC
DILM40-22-230VAC	230V AC	40	NC x2, NO x2
DILM50-22-230VAC	230V AC	50	NC x2, NO x2
DILM50-22-24VDC	24V DC	50	NC x2, NO x2
DILM65-22-230VAC	230V AC	65	NC x2, NO x2
DILM65-22-24VDC	24V DC	65	NC x2, NO x2
DILM72-230VAC	230V AC	72	-
DILM72-24VDC	24V DC	72	-
DILM80-22-230VAC	230V AC	80	NC x2, NO x2
DILM80-22-24VDC	24V DC	80	NC x2, NO x2
DILM95-22-230VAC	230V AC	95	NC x2, NO x2
DILM95-22-24VDC	24V DC	95	NC x2, NO x2
DILM115-22-230VAC	230V AC	115	NC x2, NO x2
DILM115-22-24VDC	24V DC	115	NC x2, NO x2
DILM150-230VAC	230V AC	150	-
DILM170-24VDC	24V DC	170	-

Contactor: 3-pole; SCHNEIDER ELECTRIC



Manufacturer : SCHNEIDER ELECTRIC
 Type of contactor : 3-pole
 Mounting : on panel, for DIN rail mounting
 Contacts configuration : NO x3
 Auxiliary contacts : NO + NC
 Leads : screw terminals
 Insulation voltage : 690V
 Manufacturer series : TeSys D

Symbol	Operating temperature [°C]	I _{oper. max} [A]	U _{cntrl}	P _{switch.} [kW]	Width [mm]
LC1D40AP7	-25...55	40	230V AC	18.5	55

Symbol	Operating temperature [°C]	I _{oper. max} [A]	U _{cntrl}	P _{switch.} [kW]	Width [mm]
LC1D40ABD	-25...55	40	24V DC	18.5	55
LC1D50AP7	-25...55	50	230V AC	22	55
LC1D50ABD	-25...55	50	24V DC	22	55
LC1D65AP7	-25...55	65	230V AC	30	55
LC1D65ABD	-25...55	65	24V DC	30	55

Transformers

Transformer: encapsulated; PCB; TEZ; BREVE TUFVASSONS



Manufacturer : BREVE TUFVASSONS
 Type of transformer : encapsulated
 Mounting : PCB
 IP rating : IP00
 Manufacturer series : TEZ

Symbol	Power [VA]	Primary voltage [V AC]	Secondary voltage 1 [V]	Thermal class
TEZ2/D/9V	2	230	9	Ta60B
TEZ2/D/12V	2	230	12	Ta60B
TEZ2/D/24V	2	230	24	Ta60B
TEZ4/D/12V	4	230	12	Ta60B
TEZ4/D/24V	4	230	24	Ta60B
TEZ6/D/9V	6	230	9	Ta60B
TEZ6/D/12V	6	230	12	Ta60B
TEZ6/D/24V	6	230	24	Ta60B
TEZ10/D/9V	10	230	9	Ta40B
TEZ10/D/12V	10	230	12	Ta40B
TEZ10/D/24V	10	230	24	Ta40B
TEZ16/D/12V	16	230	12	Ta40B
TEZ16/D/24V	16	230	24	Ta40B
TEZ20/D/12V	20	230	12	Ta40B
TEZ20/D/24V	20	230	24	Ta40B
TEZ25/D/12V	25	230	12	Ta40B
TEZ25/D/24V	25	230	24	Ta40B
TEZ30/D/12V	30	230	12	Ta40B
TEZ30/D/24V	30	230	24	Ta40B

Information:
 — more products from this series available on www.tme.eu

Transformer: encapsulated; PCB; BV; HAHN



Manufacturer : HAHN
 Type of transformer : encapsulated
 Mounting : PCB
 Conform to the norm : PN EN 61558-2-6:2000,
 UL 5085-1,
 UL 5085-3

Symbol	Power [VA]	Primary voltage [V AC]	Secondary voltage 1 [V]	Secondary winding current 1 [mA]
BV2010128	0.35	230	6	58
BV2010136	0.35	230	9	39
BV2010145	0.35	230	12	29
BV2010147	0.35	230	15	23
BV2010150	0.35	230	21	17
BV2020154	0.5	230	6	83
BV2020157	0.5	230	9	55
BV2020159	0.5	230	12	42
BV2020161	0.5	230	15	33
BV2020162	0.5	230	18	28
BV2020164	0.5	230	24	21

Transformer: encapsulated; PCB; BVUI; HAHN



Manufacturer : HAHN
 Type of transformer : encapsulated
 Mounting : PCB
 Conform to the norm : PN EN 61558-2-6:2000,
 UL 5085-1,
 UL 5085-3

Thermal class : Ta70C/B
 Manufacturer series : BVUI

Symbol	Power [VA]	U _{prim}	U _{sec. 1} [V]	U _{sec. 2} [V]	I _{sec. wind. 1} [A]	I _{sec. wind. 2} [A]
BVUI3040019	10	115V AC x2	6	6	833m	833m
BVUI3040020	10	115V AC x2	9	9	555m	555m
BVUI3040153	10	115V AC x2	9	9	555m	555m
BVUI3040154	10	115V AC x2	12	12	416m	416m
BVUI3040159	10	115V AC x2	18	18	277m	277m
BVUI3050147	16	115V AC x2	6	6	1.33	1.33
BVUI3050148	16	115V AC x2	9	9	888m	888m
BVUI3050149	16	115V AC x2	12	12	666m	666m
BVUI3050150	16	115V AC x2	15	15	533m	533m
BVUI3920009	10	115V AC x2	12	12	416m	416m
BVUI3920076	10	115V AC x2	9	9	556m	556m
BVUI3920093	10	115V AC x2	12	12	416m	416m
BVUI3960079	30	115V AC x2	12	12	1.25	1.25
BVUI3960121	30	115V AC x2	12	12	1.25	1.25
BVUI3960172	30	115V AC x2	9	9	1666m	1666m
BVUI3960173	30	115V AC x2	12	12	1.25	1.25
BVUI4810003	40	115V AC x2	12	12	1666m	1666m
BVUI4810006	40	115V AC x2	21	21	952m	952m
BVUI4820008	60	115V AC x2	9	9	3333m	3333m
BVUI4820009	60	115V AC x2	12	12	2.5	2.5
BVUI4820010	60	115V AC x2	15	15	2	2
BVUI4820031	60	115V AC x2	23	23	1.3	1.3

— UL 5085-1
 — UL 5085-3

Manufacturer series:
 — BVEI

Information:

— more products from this series available on www.tme.eu

Transformer: encapsulated; PCB; MYRRA



Manufacturer : MYRRA
 Type of transformer : encapsulated
 Mounting : PCB

Symbol	Power [VA]	U _{prim} [V AC]	U _{sec. 1} [V]	I _{sec. wind. 1} [A]	U _{sec. 2} [V]	I _{sec. wind. 2} [A]
MYRRA-44265	10	230	6	1667m	-	-
MYRRA-44266	10	230	9	1111m	-	-
MYRRA-44267	10	230	12	833m	-	-
MYRRA-44268	10	230	15	667m	-	-
MYRRA-44269	10	230	18	556m	-	-
MYRRA-44270	10	230	24	417m	-	-
MYRRA-45031	10	115/230	6	833m	6	833m
MYRRA-45032	10	115/230	9	556m	9	556m
MYRRA-45033	10	115/230	12	417m	12	417m
MYRRA-45034	10	115/230	15	333m	15	333m
MYRRA-45035	10	115/230	18	278m	18	278m
MYRRA-45036	10	115/230	24	208m	24	208m
MYRRA-45055	24	115/230	6	2	6	2
MYRRA-45056	24	115/230	9	1333m	9	1333m
MYRRA-45057	24	115/230	12	1	12	1
MYRRA-45058	24	115/230	15	800m	15	800m
MYRRA-45059	24	115/230	18	667m	18	667m
MYRRA-45060	24	115/230	24	500m	24	500m
MYRRA-44373	30	230	6	5	-	-
MYRRA-44374	30	230	9	3333m	-	-
MYRRA-44375	30	230	12	2.5	-	-
MYRRA-44376	30	230	15	2	-	-
MYRRA-44377	30	230	18	1667m	-	-
MYRRA-44378	30	230	24	1.25	-	-
MYRRA-45061	30	115/230	6	2.5	6	2.5
MYRRA-45062	30	115/230	9	1667m	9	1667m
MYRRA-45063	30	115/230	12	1.25	12	1.25
MYRRA-45064	30	115/230	15	1	15	1
MYRRA-45065	30	115/230	18	833m	18	833m
MYRRA-45066	30	115/230	24	625m	24	625m
MYRRA-45067	40	115/230	6	3333m	6	3333m
MYRRA-45068	40	115/230	9	2222m	9	2222m
MYRRA-45069	40	115/230	12	1667m	12	1667m
MYRRA-45070	40	115/230	15	1333m	15	1333m
MYRRA-45071	40	115/230	18	1111m	18	1111m
MYRRA-45072	40	115/230	24	833m	24	833m
MYRRA-45073	60	115/230	6	5	6	5
MYRRA-45074	60	115/230	9	3333m	9	3333m
MYRRA-45075	60	115/230	12	2.5	12	2.5
MYRRA-45077	60	115/230	18	1667m	18	1667m
MYRRA-45078	60	115/230	24	1.25	24	1.25

Transformer: encapsulated; PCB; HAHN



Manufacturer : HAHN

Symbol	Power [VA]	Primary voltage [V AC]	Secondary voltage 1 [V]	Secondary winding current 1 [A]
BVEI3022020	1.5	230	6	250m
BVEI3022021	1.5	230	9	166m
BVEI3022022	1.5	230	12	125m
BVEI3022023	1.5	230	15	100m
BVEI3032719	1.5	230	24	63m
BVEI3032010	2.3	230	6	383m
BVEI3032011	2.3	230	9	255m
BVEI3032012	2.3	230	12	191m
BVEI3032013	2.3	230	15	153m
BVEI3033563	2.3	230	21	110m
BVEI3052805	2.3	230	15	153m
BVEI3052874	2.3	230	24	96m
BVEI3052050	3	230	6	500m
BVEI3052051	3	230	9	334m
BVEI3052052	3	230	12	250m
BVEI3052053	3	230	15	200m
BVEI3052054	3	230	18	167m
BVEI3052993	3	230	24	125m
BVEI4221218	6	230	6	1
BVEI4221222	6	230	9	667m
BVEI4221224	6	230	12	500m
BVEI4221230	6	230	24	250m
BVEI4221275	6	230	12	500m
BVEI4221307	6	230	24	250m
BVEI4811142	10	230	6	1667m
BVEI4811167	10	230	9	1111m
BVEI4811172	10	230	12	833m
BVEI4811186	10	230	24	416m
BVEI5421151	20	230	6	3334m
BVEI5421155	20	230	9	2223m
BVEI5421157	20	230	12	1667m
BVEI5421163	20	230	24	834m

Type of transformer:
 — encapsulated

Mounting:
 — PCB

Conform to the norm:
 — PN EN 61558-2-6:2000

Transformer: mains; single-phase; STM; BREVE TUFVASSONS



Manufacturer : BREVE TUFVASSONS

Type of transformer : mains

Leads : terminal block

IP rating : IP00

Thermal class : B

Mounting : screw type

Conform to the norm : PN EN 61558-2-4,
 PN EN 61558-2-6

Insulation class : I

Manufacturer series : STM

Ver. : single-phase

Symbol	Power [VA]	U _{prim} [V AC]	U _{sec. 1} [V]
STM30/24V	30	230	24

cont. on the next page

Transformer: mains; single-phase; STM; BREVE TUFVASSONS (cont.)

Symbol	Power [VA]	U _{prim} [V AC]	U _{sec. 1} [V]
STM50/24V	50	230	24
STM50/400/24V	50	400	24
STM63/24V	63	230	24
STM63/230V	63	230	230
STM63/400/24V	63	400	24
STM63/400/230V	63	400	230
STM100/24V	100	230	24
STM100/230V	100	230	230
STM100/400-230/24V	100	230/400	24
STM100/400/24V	100	400	24
STM100/400/230V	100	400	230
STM160/24V	160	230	24
STM160/230V	160	230	230
STM160/400/24V	160	400	24
STM160/400/230V	160	400	230
STM200/24V	200	230	24
STM200/230V	200	230	230
STM200/400-230/24V	200	230/400	24
STM200/400/24V	200	400	24
STM200/400/230V	200	400	230
STM250/24V	250	230	24
STM250/230V	250	230	230
STM250/400/24V	250	400	24
STM250/400/230V	250	400	230
STM320/24V	320	230	24
STM320/230V	320	230	230
STM320/400/24V	320	400	24
STM320/400/230V	320	400	230
STM400/24V	400	230	24
STM400/230V	400	230	230
STM400/400/24V	400	400	24
STM400/400/230V	400	400	230
STM630/24V	630	230	24
STM630/230V	630	230	230
STM630/400/230V	630	400	230
STM1000/24V	1000	230	24
STM1000/230V	1000	230	230
STM1000/400/24V	1000	400	24
STM1000/400/230V	1000	400	230
STM1600/230V	1600	230	230
STM1600/400/230V	1600	400	230
STM2500/230V	2500	230	230
STM2500/400/230V	2500	400	230

Transformer: mains; IP30; for DIN rail mounting; BREVE TUFVASSONS



Manufacturer : BREVE TUFVASSONS
Type of transformer : mains
Mounting : for DIN rail mounting
U_{prim} : 230V AC
Leads : terminal block
Thermal class : Ta40B
Insulation class : B
Body dimensions : 92x94x54mm
IP rating : IP30
Conform to the norm : PN EN 61558-2-4, PN EN 61558-2-6

Symbol	Power [VA]	U _{sec. 1} [V]	Symbol	Power [VA]	U _{sec. 1} [V]
PSS10N/230/24V	10	24	PSS50N/230/24V	50	24
PSS16N/230/24V	16	24	PSS63N/230/12V	63	12
PSS20N/230/24V	20	24	PSS63N/230/24V	63	24
PSS30N/230/24V	30	24	PSS80N/230/12V	80	12
PSS50N/230/12V	50	12	PSS80N/230/24V	80	24

Transformer: toroidal; IP00; INDEL



Manufacturer : INDEL
Type of transformer : toroidal
Primary voltage : 230V AC
Leads : cables
Insulation class : II
Conform to the norm : PN EN 61558
IP rating : IP00
Thermal class : Ta40B

Symbol	Power [VA]	U _{sec. 1} [V]	I _{sec. wind.} [A]	Dia. [mm]	Ht. [mm]
TST10W/12V	10	12	0.83	57	28
TST10W/24V	10	24	0.42	57	28
TST20W/12V	20	12	1.67	70	30
TST20W/24V	20	24	0.83	70	30
TST35W/12V	35	12	2.9	75	32
TST35W/24V	35	24	1.46	75	32
TST40W/12V	40	12	3.33	85	32
TST40W/24V	40	24	1.67	85	32
TST50W/12V	50	12	4.1	85	35
TST50W/24V	50	24	2.08	85	35
TST60W/12V	60	12	5	85	37
TST60W/24V	60	24	2.5	85	37
TST80W/12V	80	12	6.66	95	37
TST80W/24V	80	24	3.33	95	37
TST100W/12V	100	12	8.33	97	40
TST100W/24V	100	24	4.16	97	40
TST120W/12V	120	12	10	105	40
TST120W/24V	120	24	5	105	40
TST150W/12V	160	12	13.33	115	45
TST150W/24V	160	24	6.66	115	45
TST200W/12V	200	12	16.67	120	50
TST200W/24V	200	24	8.33	120	50
TST250W/12V	250	12	20.83	130	55
TST250W/24V	250	24	10.41	130	55
TST300W/12V	300	12	25	125	58
TST300W/24V	300	24	12.5	125	58
TST450W/12V	450	12	37.5	152	58
TST450W/24V	450	24	18.75	152	58
TST450W/230V	450	230	2.05	152	58
TST600W/12V	600	12	50	153	68
TST600W/24V	600	24	25	153	68
TST600W/230V	600	230	2.6	153	68
TST1000W/230V	1k	230	4.34	185	65
TST1500W/230V	1.5k	230	6.52	195	80
TST2000W/230V	2k	230	8.69	240	90
TST2500W/230V	2.5k	230	10.87	250	105

Variable autotransformer; Thalheimer-Trafowerke



Manufacturer : Thalheimer-Trafowerke
Type of transformer : variable autotransformer
Primary voltage : 230V AC
Output voltage : 1...250V

Symbol Secondary winding current 1 [A]

ESS102	2
ESS104	4
ESS110	10
ESS120	20

Fans, cooling and heating systems

Fan: EC; RITTAL



Manufacturer : RITTAL
 Type of fan : EC
 Supply voltage:
 — 115V AC (RITTAL-3140510)
 — 200/240V AC (RITTAL-32xx500)

Symbol	Efficiency	Cutout	IP rating	Power consumption	Noise level
	[m ³ /h]	[mm]		[W]	[dBA]
RITTAL-3140510	1069	258x258	IP21, IP55	112	63
RITTAL-3238500	55	124x124	IP54, IP56	6.1	49
RITTAL-3239500	105	177x177	IP54, IP55, IP56	6.1	53
RITTAL-3241500	230	224x224	IP54, IP55, IP56	16	52

DC fans SUNON



Manufacturer : SUNON
 Type of fan : DC
 Operating temperature : -10...70°C

Bearing:
 — Vapo (MFxxx)
 — ball (EFxxx)

Symbol	Dimensions [mm]	Power consumption [W]	Rotational rate/speed [rpm]	Operating voltage [V DC]
MF17080V2-A99-A	17x17x8	0.33	16500	3.3...6
EF40201B1-A99-A	40x40x20	0.66	7200	6...13.8
EF40201BX-A99-A	40x40x20	0.78	8200	6...13.8
MF70151V1-A99	70x70x15	0.89	3500	4.5...13.8
MF70151V1-F99	70x70x15	0.89	3500	4.5...13.8
MF70151V1-G99	70x70x15	0.89	3500	4.5...13.8
MF70151V2-A99	70x70x15	0.62	3000	4.5...13.8
MF70151V2-F99	70x70x15	0.62	3000	4.5...13.8
MF70151V2-G99	70x70x15	0.62	3000	4.5...13.8
MF70151V3-A99	70x70x15	0.36	2500	4.5...13.8
MF70151V3-F99	70x70x15	0.36	2500	4.5...13.8
MF70151V3-G99	70x70x15	0.36	2500	4.5...13.8
MF80151V1-F99	80x80x15	1.5	3500	4.5...13.8
MF80151V1-G99	80x80x15	1.5	3500	4.5...13.8
MF80151V2-F99	80x80x15	1.13	3100	4.5...13.8
MF80151V2-G99	80x80x15	1.13	3100	4.5...13.8
MF80151V3-F99	80x80x15	0.86	2800	4.5...13.8
MF80151V3-G99	80x80x15	0.86	2800	4.5...13.8
MF80152V1-F99	80x80x15	1.64	3500	8...27.6
MF80152V1-G99	80x80x15	1.64	3500	8...27.6
MF80152V2-F99	80x80x15	1.32	3100	8...27.6
MF80152V2-G99	80x80x15	1.32	3100	8...27.6
MF80152V3-F99	80x80x15	0.96	2800	8...27.6
MF80152V3-G99	80x80x15	0.96	2800	8...27.6
EF92251B1-F99	92x92x25	1.5	3000	4.5...13.8

Fan: AC; axial; SUNON



Type of fan : AC
 Kind of fan : axial

Symbol	Dimensions [mm]	U _{sup} [V AC]	Efficiency	Bearing	Noise [dBA]
DP201AT2122HBL	120x120x25	230	112m ³ /h (±7%)	ball	44
DP201AT2122HBT	120x120x25	230	112m ³ /h (±7%)	ball	44
DP201AT2122HST	120x120x25	230	109m ³ /h (±7%)	slide	43

Symbol	Dimensions [mm]	U _{sup} [V AC]	Efficiency	Bearing	Noise [dBA]
DP203AT2122LBT	120x120x25	230	79m ³ /h (±7%)	ball	37
DP203AT2122LSL	120x120x25	230	78m ³ /h (±7%)	slide	35
SP101AT1122HBL	120x120x25	115	132m ³ /h (±7%)	ball	46
SP101AT1122HBT	120x120x25	115	132m ³ /h (±7%)	ball	46
A2123HBT	120x120x38	230	165m ³ /h (±10%)	ball	45
A2123HBT-7	120x120x38	230	210m ³ /h (±10%)	ball	47
A2123HST	120x120x38	230	165m ³ /h (±10%)	slide	44
A2123HST-7	120x120x38	230	210m ³ /h (±10%)	slide	46
DP200A2123XBL	120x120x38	230	165m ³ /h (±10%)	ball	45
DP200A2123XBT	120x120x38	230	165m ³ /h (±10%)	ball	45
DP200A2123XSL	120x120x38	230	161m ³ /h (±10%)	slide	44
DP200A2123XST	120x120x38	230	161m ³ /h (±10%)	slide	44
DP201A2123HBT	120x120x38	230	148m ³ /h (±10%)	ball	45
DP201A2123HST	120x120x38	230	144m ³ /h (±10%)	slide	43
DP202A2123MBT	120x120x38	230	133m ³ /h (±10%)	ball	34
DP203A2123LBL	120x120x38	230	122m ³ /h (±10%)	ball	37
DP203A2123LBT	120x120x38	230	122m ³ /h (±10%)	ball	37
DP203A2123LSL	120x120x38	230	119m ³ /h (±10%)	slide	36
DP203A2123LST	120x120x38	230	119m ³ /h (±10%)	slide	36
SP100A1123XBT	120x120x38	115	199m ³ /h (±10%)	ball	50
SP100A1123XST	120x120x38	115	195m ³ /h (±10%)	slide	49

Filter fan FF 018 series



Type of fan : AC
 Kind of fan : axial
 Manufacturer series : FF 018
 IP rating : IP54
 Supply voltage : 230V AC

Symbol	Dimensions [mm]	Cutout [mm]	P [W]	Efficiency [m ³ /h]	Noise [dBA]	Lead length [mm]
01803.0-00	-	250x250	60	300	53	-
01800.0-00	92x92x25	97x97	13	21	31	100
01801.0-00	120x120x38	125x125	15	55	40	100
01802.0-00	120x120x38	176x176	15	102	39	100
01804.0-00	Ø130x54	176x176	45	200	52	-
01805.0-00	Ø200x54	250x250	64	550	65	-

Fan: AC; axial; for control cabinets; STEGO



Manufacturer : STEGO
 Type of fan : AC
 Kind of fan : axial
 U_{sup} : 230V AC
 IP rating : IP54
 Operating temperature : -40...70°C
 Leads : leads x2
 Mounting : 4 built-in ratchet braces for mounting
 Wall thickness : 1...4mm
 Application : for control cabinets
 Lead length : 300mm

Symbol	P [W]	Efficiency [m ³ /h]	Noise [dBA]	Cutout [mm]	Flow direction
01870.0-30	12	19	39	92x92	inside cabinet
01871.0-30	19	52	49	124x124	inside cabinet
01872.0-30	45	170	55	176x176	inside cabinet
01873.0-30	64	305	64	223x223	inside cabinet
01874.0-30	95	433	62	291x291	inside cabinet
01880.0-00	12	24	38	92x92	outside cabinet
01881.0-00	19	97	49	124x124	outside cabinet
01882.0-00	45	263	56	176x176	outside cabinet
01883.0-00	64	536	65	223x223	outside cabinet
01884.0-00	95	727	63	291x291	outside cabinet

AC fans energysaving



SUNON®

Manufacturer : SUNON
 Type of fan : AC
 Kind of fan : axial
 Ver. : low power consumption
 Fan dimensions : 119x119x38.5mm
 Supply voltage : 230V AC
 Bearing : ball

Symbol	P [W]	Efficiency [m³/h]	Rot. rate [rpm]	Noise [dBA]	Lead length [m]
DP201A2123HBTS	10.8	144	2550	44	-
DP203A2123LBTS	8.2	132.5	2300	39	-
DP202A2123MBTS	9.9	134	2400	42	-
DP203A2123LBLS	8.2	132.5	2300	39	0.31

DC fans Sunon - blowers



SUNON®

Manufacturer : SUNON
 Type of fan : DC
 Kind of fan : blower

Symbol	Dimensions [mm]	Operating voltage [V DC]	P [W]	Efficiency [m³/h]	Rotational rate/speed [rpm]
MF50201V1-A99-B	50x50x20	4.5...13.8	1.49	9.85	5300
MF50201V2-A99-B	50x50x20	4.5...13.8	1.2	8.68	4650
MF50201V3-A99-B	50x50x20	4.5...13.8	900m	8.15	4350
MF60151V1-A99-B	60x60x15	4.5...13.8	900m	9.68	4000
MF60151V2-A99-B	60x60x15	4.5...13.8	660m	8.68	3600
MF60151VX-A99-B	60x60x15	4.5...13.8	1.56	10.54	4500
PF75301B1-A99-B	75x75x30	6...13.8	2.4	26.34	3400
PF75301B2-A99-B	75x75x30	6...13.8	1.71	23.44	3000
PF75301B3-A99-B	75x75x30	6...13.8	990m	18.35	2400
PF75302B1-A99-B	75x75x30	10...27.6	2.76	26.34	3400
PF75302B2-A99-B	75x75x30	10...27.6	1.92	23.44	3000
PF75302B3-A99-B	75x75x30	10...27.6	1.13	18.35	2400
MF50151V1-A99-B	50x50x15	4.5...13.8	1.14	7.63	5200
MF50151V2-A99-B	50x50x15	4.5...13.8	530m	5.94	4200

EC fans



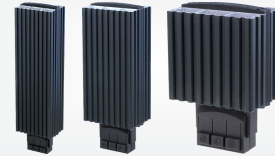
SUNON®

Manufacturer : SUNON
 Type of fan : EC
 Kind of fan : axial

Symbol	Dimensions [mm]	Efficiency [m³/h]	Rot. rate [rpm]	Bearing	IP rating
CF4113HBL-AB9	120x120x38	185.19	3500	ball	IP55
CF4113MBL-AB9	120x120x38	153.08	3000	ball	IP55
CF4113HBL-ABD	120x120x38	185.19	3500	ball	IP55
CF4113LBL-ABD	120x120x38	109.25	2000	ball	IP55
CF4113MBL-ABD	120x120x38	153.08	3000	ball	IP55
CF4113HBL-A99	120x120x38	164	3600	ball	-
CF4113HBL-AA9	120x120x38	164	3600	ball	IP21
CF4113HBL-AB9-A	120x120x38	164	3600	ball	IP55
CF4113HBL-S99	120x120x38	164	3600	ball	-
CF4113HBL-SA9	120x120x38	164	3600	ball	IP21
CF4113HBL-SB9	120x120x38	164	3600	ball	IP55
CF4113HBT-A99	120x120x38	164	3600	ball	-
CF4113HBT-AA9	120x120x38	164	3600	ball	IP21
CF4113HBT-AB9	120x120x38	164	3600	ball	-
CF4113HBT-S99	120x120x38	164	3600	ball	-
CF4113HBT-SA9	120x120x38	164	3600	ball	IP21
CF4113HBT-SB9	120x120x38	164	3600	ball	IP55
CF4113MBL-A99	120x120x38	132	3100	ball	-
CF4113MBL-AA9	120x120x38	132	3100	ball	IP21
CF4113MBL-AB9-A	120x120x38	132	3100	ball	IP55
CF4113MBL-S99	120x120x38	132	3100	ball	-
CF4113MBL-SA9	120x120x38	132	3100	ball	IP21

Symbol	Dimensions [mm]	Efficiency [m³/h]	Rot. rate [rpm]	Bearing	IP rating
CF4113MBL-SB9	120x120x38	132	3100	ball	IP55
CF4113MBT-A99	120x120x38	132	3100	ball	-
CF4113MBT-AA9	120x120x38	132	3100	ball	IP21
CF4113MBT-AB9	120x120x38	132	3100	ball	IP55
CF4113MBT-S99	120x120x38	132	3100	ball	-
CF4113MBT-SA9	120x120x38	132	3100	ball	IP21
CF4113MBT-SB9	120x120x38	132	3100	ball	IP55
CF2062HVL-999	60x60x25	29.7	4100	Vapo	-
CF2072HVL-999	70x70x25	47.62	3550	Vapo	-
CF2082HVL-999	80x80x25	68.03	3100	Vapo	-
CF2092HVL-999	92x92x25	88.43	2900	Vapo	-

Heater; HG 140; STEGO



STEGO

Type of device : heater
 Manufacturer series : HG 140
 Operating temperature : -45...70°C
 IP rating : IP20
 Leads : quick connector x3

Symbol	Heating capacity [W]	Max inrush current [A]	Protection
14000.0-00	15	1.5	time-delay
14001.0-00	30	3	time-delay
14003.0-00	45	3.5	time-delay
14005.0-00	60	2.5	time-delay
14006.0-00	75	4	time-delay
14007.0-00	100	4.5	time-delay
14008.0-00	150	9	time-delay

Rittal's heaters



RITTAL

Manufacturer : RITTAL
 Operating temperature : -33...65°C
 Type of device : heater
 IP rating : IP20
 Mounting : for DIN rail mounting, screw
 Protection : time-delay
 Ver.:

— heatsink (RITTAL-3105310, RITTAL-3105330, RITTAL-3105340, RITTAL-3105350, RITTAL-3105370, RITTAL-3105320, RITTAL-3105360)
 — with fan (RITTAL-3105380, RITTAL-3105390, RITTAL-3105400)

Symbol	Heating capacity [W]	Sup. volt.	Body dimensions [mm]
RITTAL-3105310	8...10	110...240 V	45x120x45
RITTAL-3105330	23...30	110...240 V	64x155x56
RITTAL-3105340	49...50	110...240 V	64x155x56
RITTAL-3105350	63...75	110...240 V	64x230x56
RITTAL-3105370	130...150	110...240 V	90x180x75
RITTAL-3105380	250...265	230 V	103x200x103
RITTAL-3105390	400...415	230 V	103x200x103
RITTAL-3105400	800...870	230 V	103x200x103
RITTAL-3105410	235...250	115 V	103x200x103
RITTAL-3105420	355...400	115 V	103x200x103
RITTAL-3105430	710...800	115 V	103x200x103
RITTAL-3105320	18...20	110...240 V DC	45x120x46
RITTAL-3105360	86...100	110...240 V DC	90x165x75

Heater; semiconductor; CS 060; STEGO



Type of device : heater
 Manufacturer series : CS 060
 Operating voltage : 120...240V
 Operating temperature : -45...70°C
 IP rating : IP20
 Protection class : II
 Leads : clamps 4x2,5mm²
 Protection : time-delay

Symbol	Max inrush current [A]	Heating capacity [W]
06000.0-00	2.5	50
06010.0-00	4.5	100
06020.0-00	8	150

Blower; heating; HGL 046; STEGO



Type of device : blower
 Manufacturer series : HGL 046
 Operating temperature : -45...70°C
 Leads : clamps 1.5mm²
 IP rating : IP20
 Supply voltage : 230V AC
 Protection : time-delay

Symbol	Heating capacity [W]
04640.0-00	250
04641.0-00	400

Blower; heating, semiconductor; STEGO

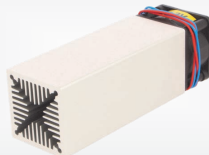


Type of device : blower
 IP rating : IP20
 Protection : time-delay
 Leads : clamps 2x2.5mm²
 Operating temperature : -45...70°C
 Protection class : II
 Supply voltage : 230V AC

Mounting:
 — on panel (02800.0-00)
 — for DIN rail mounting (02800.0-00, 02810.0-00, 02811.0-00, 02821.0-06, 02820.0-06)
 — screw type (02800.0-01, 02820.0-08)

Symbol	Heating capacity [W]	Max inrush current [A]	Mounting rail size
02800.0-00	150	12	-
02800.0-01	150	12	-
02810.0-00	400	15	TS35
02811.0-00	250	9	TS35
02821.0-06	250	9	TS35
02820.0-06	400	15	TS35
02820.0-08	400	15	-

Heatsink; FISCHER ELEKTRONIK



Manufacturer : FISCHER ELEKTRONIK

Symbol

Symbol	Width [mm]	Ht. [mm]	L. [mm]	U _{sup} [V DC]	Efficiency [m ³ /h]
LAM/3/50/12	30	30	50	12	7.7
LAM/3/50/5	30	30	50	5	6.8
LAM/3/75/12	30	30	75	12	7.7
LAM/3/75/5	30	30	75	5	6.8
LAM/3/D/150/05	60.5	30	150	5	6.8
LAM/3/D/150/12	60.5	30	150	12	7.7
LAM/3/D/K/50/12	60.5	30	50	12	7.7
LAM/3K/125/12V	30	30	125	12	7.7
LAM/3K/125/5V	30	30	125	5	6.8
LAM/3K/150/12V	30	30	150	12	7.7
LAM/3K/150/5V	30	30	150	5	6.8
LAM/3K/50/5V	30	30	50	5	6.8
LAM/3K/75/12	30	30	75	12	7.7
LAM/4/100/12V	40	40	100	12	24
LAM/4/100/24	40	40	100	24	24
LAM/4/100/5	40	40	100	5	10
LAM/4/125/12	40	40	125	12	24
LAM/5/100/12	50	50	100	12	14.3
LAM/4/D/100/24V	80.8	40	100	24	24
LAM/4/D/125/24V	80.8	40	125	24	24
LAM/4/D/150/24V	80.8	40	150	24	24
LAM/4/D/150/5V/ME	80.8	40	150	5	10
LAM/4/D/50/24V	80.8	40	50	24	24
LAM/4/D/75/24V	80.8	40	75	24	24
LAM/4/D/75/5V/ME	80.8	40	75	5	10
LAM/4K/100/24V	40	40	100	24	24
LAM/4K/100/5V	40	40	100	5	10
LAM/4K/125/12V	40	40	125	12	24
LAM/4K/125/24	40	40	125	24	24
LAM/4K/125/5	40	40	125	5	10
LAM/4K/150/24	40	40	150	24	24
LAM/4K/150/5V	40	40	150	5	10
LAM/4K/50/12V	40	40	50	12	24
LAM/4K/50/24V	40	40	50	24	24
LAM/4K/50/5V	40	40	50	5	10
LAM/4K/75/12V	40	40	75	12	24
LAM/4K/75/24V	40	40	75	24	24
LAM/4K/75/5V	40	40	75	5	10
LAM/5/100/24	50	50	100	24	20
LAM/5/100/5V	50	50	100	5	10
LAM/5/125/12	50	50	125	12	14.3
LAM/5/125/24V	50	50	125	24	20
LAM/5/125/5V	50	50	125	5	10
LAM/5/150/12	50	50	150	12	14.3
LAM/5/150/5V	50	50	150	5	10
LAM/5/50/12V	50	50	50	12	14.3
LAM/5/50/24V	50	50	50	24	20
LAM/5/50/5V	50	50	50	5	10
LAM/5/75/12V	50	50	75	12	14.3
LAM/5/75/5V	50	50	75	5	10
LAM/5/D/100/12	100.5	50	100	12	14.3
LAM/5/D/100/24V	100.5	50	100	24	20

Advanced Thermal Solutions



Manufacturer : Advanced Thermal Solutions
 Wire insulation material : silicone
 Material : ceramics
 Wire size : 20AWG
 Max. temperature difference : 68°C
 Contact material : ceramics
 Type of semiconductor module : Peltier
 Body dim.:
 — 10x10x4.7mm (ATS-TEC10-47-012)
 — 30x30x3.3mm (ATS-TEC30-33-020)
 — 30x30x3.6mm (ATS-TEC30-36-017)
 — 40x40x3.7mm (ATS-TEC40-37-019)
 — 50x50x4mm (ATS-TEC50-40-007)

Symbol	Max. operating volt. [V]	I _{oper. max} [A]	Max. heat pump capacity [W]
ATS-TEC10-47-012	0.8	4	2
ATS-TEC30-33-020	15.4	4	35.6
ATS-TEC30-36-017	15.4	3	26.7
ATS-TEC40-37-019	15.4	6	53.3
ATS-TEC50-40-007	15.4	12	106.7

Heat pipe; Advanced Thermal Solutions



Manufacturer : Advanced Thermal Solutions
 Type of heatsink : heat pipe
 Material : copper
 Colour : natural
 Operating temperature : 30...120°C
 Finish : raw

Symbol	L. [mm]	Dia. [mm]	Cooling power [W]	Shape	Effective length [mm]
D4L150S33W-117	150	4	33.4	round	75
D4L200G30W-001	200	4	32	round	125
D8L400S38W-152	400	8	39	round	200

Symbol	Colour	U _{rated} [V AC]	U _{rated} [V DC]
LO-BA9S-24AC/DC	orange	24	24
LR-BA9S-24AC/DC	red	24	24
LW-BA9S-24AC/DC	white	24	24
LY-BA9S-24AC/DC	yellow	24	24
LB-BA9S-230AC	blue	230	-
LG-BA9S-230AC	green	230	-
LO-BA9S-230AC	orange	230	-
LR-BA9S-230AC	red	230	-
LW-BA9S-230AC	white	230	-
LY-BA9S-230AC	yellow	230	-

Light sources

Filament lamp: bayonet; T3 1/4; BA9S; BRIGHTMASTER



Type of lamp : bayonet
 Cap : BA9S
 Kind of bulb : T3 1/4
 Diameter : 10.3mm
 Length : 30mm

Symbol	U _{rated} [V DC]	Cur. rat. [mA]	Nominal life [h]	Lum. flux [lm]	Power [W]
LAMP-ML1825	24	50	10000	3.8	1.2
LAMP-ML1824	24	85	10000	6.3	2

LED lamp; BA15D; POLAM-ELTA



Manufacturer : POLAM-ELTA
 Type of lamp : LED lamp
 Cap : BA15D
 Features : built-in bridge rectifier; built-in resistor

Symbol	Colour	U _{rated} [V AC]	U _{rated} [V DC]
LB-BA15D-24AC/DC	blue	24	24
LB-BA15D-230AC	blue	230	-
LG-BA15D-24AC/DC	green	24	24
LG-BA15D-230AC	green	230	-
LO-BA15D-24AC/DC	orange	24	24
LO-BA15D-230AC	orange	230	-
LR-BA15D-24AC/DC	red	24	24
LR-BA15D-230AC	red	230	-
LW-BA15D-24AC/DC	white	24	24
LW-BA15D-230AC	white	230	-
LY-BA15D-24AC/DC	yellow	24	24
LY-BA15D-230AC	yellow	230	-

Filament lamp: neon; AUSPICIOUS



Type of lamp : neon
 Colour : green
 Symbol Cap Rated volt. [V AC]

LN-B9/110AC/G	BA9S	110
LN-B9/230AC/G	BA9S	230
LN-E10/110AC/G	E10	110

LED lamp; BA15S; POLAM-ELTA



Manufacturer : POLAM-ELTA
 Type of lamp : LED lamp
 Cap : BA15S
 Features : built-in bridge rectifier; built-in resistor

Symbol	Colour	U _{rated} [V AC]	U _{rated} [V DC]
LB-BA15S-230AC	blue	230	-
LG-BA15S-24AC/DC	green	24	24
LG-BA15S-230AC	green	230	-
LO-BA15S-24AC/DC	orange	24	24
LR-BA15S-24AC/DC	red	24	24
LR-BA15S-230AC	red	230	-
LW-BA15S-24AC/DC	white	24	24
LW-BA15S-230AC	white	230	-
LY-BA15S-24AC/DC	yellow	24	24
LY-BA15S-230AC	yellow	230	-

Filament lamp: bayonet; BA15S



Type of lamp : bayonet
 Cap : BA15S
 Kind of bulb : cylindrical
 Power : 5W

Symbol	U _{rated} [V DC]
BA15S-R5W/12V	12
BA15S-R5W/24V	24

LED lamp; BA9S; POLAM-ELTA



Manufacturer : POLAM-ELTA
 Type of lamp : LED lamp
 Cap : BA9S

Symbol	Colour	U _{rated} [V AC]	U _{rated} [V DC]
LB-BA9S-24AC/DC	blue	24	24
LG-BA9S-24AC/DC	green	24	24



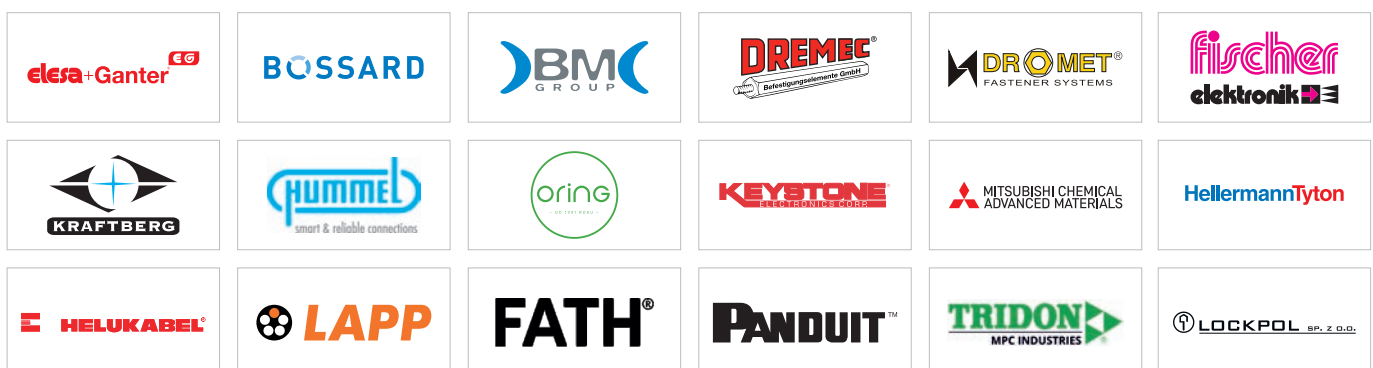
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Mechanical elements

60

3

Mechanical elements

Mechanical elements

Screw; Phillips; steel; BOSSARD



BOSSARD

Manufacturer : BOSSARD
 Type of mounting element : screw
 Material : steel
 Plating material : zinc
 Kind of head : cheese head
 Kind of cut : Phillips
 Strength class : 4.8
 ISO standard : ISO 7045
 BN standard : BN 384
Information : more products from this series available on www.tme.eu

Symbol	Thread	Length [mm]	Head diameter [mm]	Head height [mm]	Cut size
B10X16/BN384	M10	16	20	7.68	PH4
B10X20/BN384	M10	20	20	7.68	PH4
B10X35/BN384	M10	35	20	7.68	PH4
B3X5/BN384	M3	5	6	2.52	PH1
B3X6/BN384	M3	6	6	2.52	PH1
B3X8/BN384	M3	8	6	2.52	PH1
B3X10/BN384	M3	10	6	2.52	PH1
B3X16/BN384	M3	16	6	2.52	PH1
B3X20/BN384	M3	20	6	2.52	PH1
B3X25/BN384	M3	25	6	2.52	PH1
B3X30/BN384	M3	30	6	2.52	PH1
B3X40/BN384	M3	40	6	2.52	PH1
B3X50/BN384	M3	50	6	2.52	PH1
B4X5/BN384	M4	5	8	3.25	PH2
B4X10/BN384	M4	10	8	3.25	PH2
B4X20/BN384	M4	20	8	3.25	PH2
B4X30/BN384	M4	30	8	3.25	PH2
B4X40/BN384	M4	40	8	3.25	PH2
B4X60/BN384	M4	60	8	3.25	PH2
B4X70/BN384	M4	70	8	3.25	PH2
B5X6/BN384	M5	6	10	3.95	PH2
B5X8/BN384	M5	8	10	3.95	PH2
B5X12/BN384	M5	12	10	3.95	PH2
B5X16/BN384	M5	16	10	3.95	PH2
B5X22/BN384	M5	22	10	3.95	PH2
B5X25/BN384	M5	25	10	3.95	PH2
B5X40/BN384	M5	40	10	3.95	PH2
B5X45/BN384	M5	45	10	3.95	PH2
B5X70/BN384	M5	70	10	3.95	PH2
B6X6/BN384	M6	6	12	4.75	PH3
B6X14/BN384	M6	14	12	4.75	PH3
B6X18/BN384	M6	18	12	4.75	PH3
B6X22/BN384	M6	22	12	4.75	PH3
B6X25/BN384	M6	25	12	4.75	PH3
B6X45/BN384	M6	45	12	4.75	PH3
B6X70/BN384	M6	70	12	4.75	PH3
B8X10/BN384	M8	10	16	6.15	PH4
B8X20/BN384	M8	20	16	6.15	PH4
B8X50/BN384	M8	50	16	6.15	PH4
B8X70/BN384	M8	70	16	6.15	PH4
B8X80/BN384	M8	80	16	6.15	PH4

Screw; hex key; steel; BOSSARD



BOSSARD

Manufacturer : BOSSARD
 Type of mounting element : screw
 Kind of head : cheese head
 DIN standard : DIN 912
 Kind of cut : hex key
 Material : steel
 Plating material : zinc
 ISO standard : ISO 4762
 PN standard : PN 82302
 BN standard : BN 4
 Strength class : 8.8
Information : more products from this series available on www.tme.eu

Symbol	Thread	Length [mm]	Cut size [mm]
B4X35/BN4	M4	35	HEX 3
B6X35/BN4	M6	35	HEX 5

Symbol	Thread	Length [mm]	Cut size [mm]
B5X100/BN4	M5	100	HEX 4

Shoulder screw; hex key; steel; ELESA+GANTER



Manufacturer : ELESA+GANTER
 Type of mounting element : shoulder screw
 Kind of head : knurled, cheese head
 ISO standard : ISO 7379
 Kind of cut : hex key
Information : more products from this series available on www.tme.eu

Plating material : black finish
 Strength cl. : 12.9
 Material : steel

Symbol	Thread	Head dia. [mm]	Head height [mm]	Thread len. [mm]	Plunger length [mm]
ISO7379-4-M3-4	M3	7	3	7	4
ISO7379-4-M3-6	M3	7	3	7	6
ISO7379-4-M3-12	M3	7	3	7	12
ISO7379-4-M3-16	M3	7	3	7	16
ISO7379-5-M4-5	M4	9	4	8	5
ISO7379-5-M4-8	M4	9	4	8	8
ISO7379-5-M4-12	M4	9	4	8	12
ISO7379-5-M4-20	M4	9	4	8	20
ISO7379-5-M4-30	M4	9	4	8	30
ISO7379-6-M5-12	M5	10	4.5	9.5	12
ISO7379-6-M5-16	M5	10	4.5	9.5	16
ISO7379-6-M5-30	M5	10	4.5	9.5	30
ISO7379-6-M5-45	M5	10	4.5	9.5	45
ISO7379-6-M5-50	M5	10	4.5	9.5	50
ISO7379-6-M5-55	M5	10	4.5	9.5	55
ISO7379-6-M5-60	M5	10	4.5	9.5	60
ISO7379-6-M5-65	M5	10	4.5	9.5	65
ISO7379-8-M6-20	M6	13	5.5	11	20
ISO7379-8-M6-30	M6	13	5.5	11	30
ISO7379-8-M6-50	M6	13	5.5	11	50
ISO7379-8-M6-60	M6	13	5.5	11	60
ISO7379-8-M6-65	M6	13	5.5	11	65
ISO7379-8-M6-100	M6	13	5.5	11	100
ISO7379-10-M8-16	M8	16	7	13	16
ISO7379-10-M8-25	M8	16	7	13	25
ISO7379-10-M8-40	M8	16	7	13	40
ISO7379-10-M8-50	M8	16	7	13	50
ISO7379-10-M8-65	M8	16	7	13	65
ISO7379-10-M8-80	M8	16	7	13	80
ISO7379-10-M8-100	M8	16	7	13	100
ISO7379-12-M10-20	M10	18	8	16	20
ISO7379-12-M10-30	M10	18	8	16	30
ISO7379-12-M10-40	M10	18	8	16	40
ISO7379-12-M10-50	M10	18	8	16	50
ISO7379-12-M10-55	M10	18	8	16	55
ISO7379-12-M10-70	M10	18	8	16	70
ISO7379-12-M10-80	M10	18	8	16	80
ISO7379-12-M10-100	M10	18	8	16	100
ISO7379-16-M12-35	M12	24	11	18	35
ISO7379-16-M12-45	M12	24	11	18	45
ISO7379-16-M12-55	M12	24	11	18	55
ISO7379-16-M12-80	M12	24	11	18	80
ISO7379-16-M12-90	M12	24	11	18	90
ISO7379-20-M16-90	M16	30	14	22	90
ISO7379-24-M20-65	M20	36	16	27	65
ISO7379-24-M20-80	M20	36	16	27	80

Plunger diameter:
 — 4mm (ISO7379-4-M3-xx)
 — 5mm (ISO7379-5-M4-xx)
 — 6mm (ISO7379-6-M5-xx)
 — 8mm (ISO7379-8-M6-xxx)
 — 10mm (ISO7379-10-M8-xxx)
 — 12mm (ISO7379-12-M10-xxx)
 — 16mm (ISO7379-16-M12-xx)
 — 20mm (ISO7379-20-M16-90)
 — 24mm (ISO7379-24-M20-65, ISO7379-24-M20-80)
 Cut size:
 — HEX 2mm (ISO7379-4-M3-xx)
 — HEX 2.5mm (ISO7379-5-M4-xx)
 — HEX 3mm (ISO7379-6-M5-xx)
 — HEX 4mm (ISO7379-8-M6-xxx)
 — HEX 5mm (ISO7379-10-M8-xxx)

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Shoulder screw; hex key; steel; ELESA+GANTER (cont.)

- HEX 6mm (ISO7379-12-M10-xxx)
- HEX 8mm (ISO7379-16-M12-xx)
- HEX 10mm (ISO7379-20-M16-90)
- HEX 12mm (ISO7379-24-M20-65, ISO7379-24-M20-80)

Screw; steel; for profiles; FATH



FATH

Manufacturer : FATH
 Mounting element : screw
 Application : for profiles
 Material : steel
 Plating material : zinc
 Kind of head : T-slot

Symbol	Width of the groove [mm]	Thread	Length [mm]	H dimension [mm]
FA-096HK0815M0616	8	M6	16	1.5
FA-096HK0815M0620	8	M6	20	1.5
FA-096HK0815M0825	8	M8	25	1.5
FA-096HK0830M0625	8	M6	25	3
FA-096HK0830M0830	8	M8	30	3
FA-096HK1015M0825	10	M8	25	1.5
FA-096HK1015M0830	10	M8	30	1.5
FA-096HK1030M0820	10	M8	20	3
FA-096HK1030M0825	10	M8	25	3
FA-096HK1030M0830	10	M8	30	3
FA-096HK1030M0840	10	M8	40	3
FA-096HK0830M0630	8	M8	30	-

Socket set screws DIN914

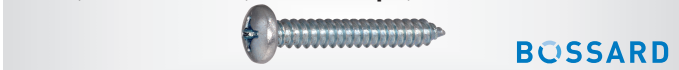


BOSSARD

Manufacturer : BOSSARD
 Type of mounting element : screw
 Kind of head : without head
 Kind of cut : hex key
 Material : steel
 DIN standard : DIN 914
 PN standard : PN 82315
 ISO standard : ISO 4027

Symbol	Plating material	BN standard	Thread	Length [mm]	Cut size [mm]
B2.5X3/BN25	black finish	BN 25	M2,5	3	HEX 1.3
B3X6/BN25	black finish	BN 25	M3	6	HEX 1.5
B3X8/BN25	black finish	BN 25	M3	8	HEX 1.5
B3X10/BN25	black finish	BN 25	M3	10	HEX 1.5
B4X8/BN25	black finish	BN 25	M4	8	HEX 2
B4X30/BN25	black finish	BN 25	M4	30	HEX 2
B5X10/BN25	black finish	BN 25	M5	10	HEX 2.5
B5X30/BN25	black finish	BN 25	M5	30	HEX 2.5
B6X10/BN25	black finish	BN 25	M6	10	HEX 3
B6X50/BN25	black finish	BN 25	M6	50	HEX 3
B8X16/BN25	black finish	BN 25	M8	16	HEX 4
B3X3/BN29	zinc	BN 29	M3	3	HEX 1.5
B4X5/BN29	zinc	BN 29	M4	5	HEX 2
B5X12/BN29	zinc	BN 29	M5	12	HEX 2.5
B5X25/BN29	zinc	BN 29	M5	25	HEX 2.5
B3X5/BN25	black finish	BN 25	M3	5	HEX 1.5

Screw; cheese head; Cut: Phillips; BOSSARD



BOSSARD

Manufacturer : BOSSARD
 Type of mounting element : screw
 Kind of head : cheese head
 Kind of cut : Phillips
 DIN standard : DIN 7981C
 PN standard : PN 83116
 ISO standard : ISO 7049
 Material : steel
 Plating material : zinc
 BN standard : BN 994

Information : more products from this series available on www.tme.eu

Symbol	Thread	L. [mm]	Cut size	Symbol	Thread	L. [mm]	Cut size
B2.2X6.5/BN994	2,2	6,5	PH1	B4.2X19/BN994	4,2	19	PH2
B2.2X13/BN994	2,2	13	PH1	B4.2X32/BN994	4,2	32	PH2
B2.9X6.5/BN994	2,9	6,5	PH1	B4.2X38/BN994	4,2	38	PH2
B2.9X19/BN994	2,9	19	PH1	B4.2X50/BN994	4,2	50	PH2
B2.9X25/BN994	2,9	25	PH1	B4.8X13/BN994	4,8	13	PH2
B2.9X32/BN994	2,9	32	PH1	B4.8X22/BN994	4,8	22	PH2
B3.5X6.5/BN994	3,5	6,5	PH2	B4.8X25/BN994	4,8	25	PH2
B3.5X16/BN994	3,5	16	PH2	B4.8X50/BN994	4,8	50	PH2
B3.5X22/BN994	3,5	22	PH2	B5.5X16/BN994	5,5	16	PH3
B3.5X25/BN994	3,5	25	PH2	B5.5X22/BN994	5,5	22	PH3
B3.5X32/BN994	3,5	32	PH2	B5.5X32/BN994	5,5	32	PH3
B3.9X6.5/BN994	3,9	6,5	PH2	B5.5X50/BN994	5,5	50	PH3
B3.9X13/BN994	3,9	13	PH2	B6.3X13/BN994	6,3	13	PH3
B3.9X19/BN994	3,9	19	PH2	B6.3X16/BN994	6,3	16	PH3
B3.9X25/BN994	3,9	25	PH2	B6.3X22/BN994	6,3	22	PH3
B3.9X38/BN994	3,9	38	PH2	B6.3X38/BN994	6,3	38	PH3
B3.9X50/BN994	3,9	50	PH2	B6.3X60/BN994	6,3	60	PH3
B4.2X13/BN994	4,2	13	PH2				

Lifting eye bolt; zinc; steel; DROMET



DROMET FASTENER SYSTEMS

Manufacturer : DROMET
 Type of mounting element : lifting eye bolt
 Material : steel
 Plating material : zinc
 DIN standard : DIN 580
 Kind of cut : none
 Kind of head : eye

Symbol	Thread	L. [mm]	Ring inside diam. [mm]	Symbol	Thread	L. [mm]	Ring inside diam. [mm]
D-SZU.6	M6	13	20	D-SZU18	M18	30	40
D-SZU.8	M8	13	20	D-SZU20	M20	30	40
D-SZU10	M10	17	25	D-SZU22	M22	36	50
D-SZU12	M12	20	30	D-SZU24	M24	36	50
D-SZU14	M14	27	35	D-SZU27	M27	41	53
D-SZU16	M16	27	35				

Dee shackle; steel; for rope; ELESA+GANTER



eleSA+GANter

Manufacturer : ELESA+GANTER
 Type of mounting element : dee shackle
 Application : for rope
 Material : steel
 Plating material : zinc

Symbol	Ver.	Size [mm]
GN584-6-A	with stud bolt	6
GN584-6-B	bolt with nut and split pin	6
GN584-8-A	with stud bolt	8
GN584-8-B	bolt with nut and split pin	8
GN584-10-A	with stud bolt	10
GN584-10-B	bolt with nut and split pin	10
GN584-11-A	with stud bolt	11
GN584-11-B	bolt with nut and split pin	11
GN584-13-A	with stud bolt	13
GN584-13-B	bolt with nut and split pin	13
GN584-16-A	with stud bolt	16
GN584-16-B	bolt with nut and split pin	16
GN584-19-A	with stud bolt	19
GN584-19-B	bolt with nut and split pin	19
GN584-22-A	with stud bolt	22
GN584-22-B	bolt with nut and split pin	22
GN584-25-A	with stud bolt	25
GN584-25-B	bolt with nut and split pin	25

Washer; steel; BOSSARD



BOSSARD

Manufacturer : BOSSARD
 Type of spacer : washer
 Kind of washer : round
 Material : steel
 Plating material : zinc
 DIN standard : DIN 125A
 BN standard : BN 715
 ISO standard : ISO 7089
 PN standard : PN 82006

Symbol	Thread	Int. dia. [mm]	Out. diam. [mm]	Height [mm]
B1.6/BN715	M1,6	1.7	4	0.3
B1.7/BN715	M1,7	1.8	4.5	0.3
B2/BN715	M2	2.2	5	0.3
B2.3/BN715	M2,3	2.5	6	0.5
B2.5/BN715	M2,5	2.7	6	0.5
B2.6/BN715	M2,6	2.8	7	0.5
B3/BN715	M3	3.2	7	0.5
B3.5/BN715	M3,5	3.7	8	0.5
B4/BN715	M4	4.3	9	0.8
B4.5/BN715	M4,5	4.8	12	1
B5/BN715	M5	5.3	10	1
B6/BN715	M6	6.4	12	1.6
B7/BN715	M7	7.4	14	1.6
B8/BN715	M8	8.4	16	1.6
B10/BN715	M10	10.5	20	2
B12/BN715	M12	13	24	2.5
B14/BN715	M14	15	28	2.5
B16/BN715	M16	17	30	3
B18/BN715	M18	19	34	3
B20/BN715	M20	21	37	3
B22/BN715	M22	23	39	3
B24/BN715	M24	25	44	4
B27/BN715	M27	28	50	4
B30/BN715	M30	31	56	4

Washer; spring; steel; BOSSARD



BOSSARD

Manufacturer : BOSSARD
 Type of spacer : washer
 Kind of washer : spring
 Material : steel
 Plating material : zinc
 DIN standard : DIN 7980
 BN standard : BN 774

Symbol	Thread	Int. dia. [mm]	Out. diam. [mm]	Ht. [mm]
B3/BN774	M3	3.2	5.6	1
B5/BN774	M5	5.2	8.8	1.6
B6/BN774	M6	6.2	9.9	1.6

Nut; hexagonal; steel; BOSSARD



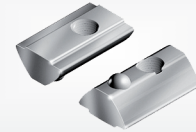
BOSSARD

Manufacturer : BOSSARD
 Mounting element : nut
 Nut shape : hexagonal
 Material : steel
 Plating material : zinc
 ISO standard : ISO 4032
 PN standard : PN 82144
 Strength class : 6

Symbol	Thread	Spanner [mm]	Ht. [mm]	Symbol	Thread	Spanner [mm]	Ht. [mm]
B1/BN109	M1	2.5	0.8	B1.8/BN109	M1,8	3.5	1.4
B1.2/BN109	M1,2	3	1	B2/BN109	M2	4	1.6
B1.4/BN109	M1,4	3	1.2	B2.5/BN109	M2,5	5	2

Symbol	Thread	Spanner [mm]	Ht. [mm]	Symbol	Thread	Spanner [mm]	Ht. [mm]
B1.6/BN109	M1,6	3.2	1.3				

Nut; steel; FATH



Manufacturer : FATH
 Mounting element : nut
 Application : for profiles
 Material : steel
 Nut shape : T-slot
 Plating material : zinc

Information : more products from this series available on www.tme.eu

Symbol	Thread	Width of the groove [mm]	Profile raster [mm]
FA-096213	M3	5	20
FA-096214	M4	5	20
FA-096215	M5	5	20
FA-096024	M4	8	40
FA-096025	M5	8	40
FA-096026	M6	8	40
FA-096028	M8	8	40
FA-096553	M3	6	30
FA-096554	M4	6	30
FA-096555	M5	6	30
FA-096556	M6	6	30

Repair kit; for thread repair; NEO TOOLS



Manufacturer : NEO TOOLS
 Type of tool : repair kit
 Application : for thread repair
 Kit contents : threaded insert
 Quantity in set/package : 20pcs.

Symbol	Thread
NEO-11-905	M5
NEO-11-906	M6
NEO-11-907	M8
NEO-11-908	M10
NEO-11-909	M12

Set of spring; NEO TOOLS



Manufacturer : NEO TOOLS
 Type of tool : set of spring
Symbol Quantity in set/package
 [pcs.]
 NEO-11-980 200

Hinge; zinc and aluminium alloy; Elesa+Ganter



Manufacturer : Elesa+GANTER
 Mounting element : hinge
 Mat. : zinc and aluminium alloy
 Pin material : stainless steel
Information : more products from this series available on www.tme.eu

cont. on the next page

Hinge; zinc and aluminium alloy; ELESA+GANTER (cont.)

Symbol	Colour	Width [mm]	Ht. [mm]	Panel cutout diam. [mm]	Ext. thread
GN237-ZD-30-30-A	black	30	30	4.7	-
GN237-ZD-40-40-A	black	40	40	5.3	-
GN237-ZD-50-50-A	black	50	50	6.4	-
GN237-ZD-60-60-A	black	60	60	8.3	-
GN237-ZD-63-50A-SR	silver	63	50	6.3	-
GN237-ZD-76-50A-SW	black	76	50	6.3	-
GN237-ZD-90-60A-SW	black	90	60	8.4	-
GN237-ZD-120-60ASR	silver	120	60	8.4	-
GN237-ZD-40-40C-SR	silver	40	40	-	M5
GN237-ZD-40-40C-SW	black	40	40	-	M5
GN237-ZD-50-50C-SW	black	50	50	-	M6
GN237-ZD-60-60C-SR	silver	60	60	-	M8
GN237-ZD-63-50C-SR	silver	63	50	-	M6
GN237-ZD-76-50C-SR	silver	76	50	-	M6
GN237-ZD-90-60C-SR	silver	90	60	-	M8
GN237-ZD-120-60CSR	silver	120	60	-	M8

ELESA+GANTER hinges



Manufacturer : ELESA+GANTER
 Mounting element : hinge
 Version : with regulation
 Pin material : technopolymer (PC)
 Material : technopolymer PA
 Flammability rating : UL94V-2

Symbol	Width [mm]	Panel cutout diam. [mm]	Height [mm]	Mount. holes pitch [mm]
CFU40CH-4	36.5	4.5	43	25.5/31.7
CFU40CH-4CLEAN	36.5	4.5	43	25.5/31.7
CFU60CH-6	56.5	6.5	63.5	38/47.5
CFU60CH-6CLEAN	56.5	6.5	63.5	38/47.5

Hinge; zinc-plated steel; RST ROZTOCZE



Manufacturer : RST ROZTOCZE
 Mounting element : hinge
 Material : zinc-plated steel
 Pin material : zinc plated steel

Symbol	Number of holes	Width [mm]	Height [mm]	Panel cutout diam. [mm]	Colour
3.ST37.001	4	26	40	4.3	natural
3.ST48.001	6	40	50	3	natural
3.ST48.001-04	6	40	50	3	black
3.ST124.001	10	70	145	6	natural
3.ST124.002	10	103.6	145	6	natural

Hinge; aluminium; for profiles; FATH



Manufacturer : FATH
 Mounting element : hinge
 Application : for profiles
 Material : aluminium

Symbol	Version	Profile raster [mm]	Width of the groove [mm]
FA-093GA20AN	-	20	5
FA-093G30AN06	-	30	6
FA-093G40AN	-	40	8
FA-093GAF20AN	with lever	20	5
FA-093GF30AN06	with lever	30	6
FA-093GF40AN	with lever	40	8

Fork joint; steel; ELESA+GANTER



Manufacturer : ELESA+GANTER
 Type of mounting element : fork joint
 Material : steel
 Plating material : zinc
 DIN standard : DIN 71752
 Kind of thread : right hand thread, inside

Information : more products from this series available on www.tme.eu

Symbol	Thread	Ø _{hole} [mm]	L [mm]	Symbol	Thread	Ø _{hole} [mm]	L [mm]
GN751-10-20-M10-B	M10	10	20	GN751-16-64-M16-B	M16	16	64
GN751-10-40-M10-B	M10	10	40	GN751-5-10-M5-B	M5	5	10
GN751-12-24-M12-B	M12	12	24	GN751-5-20-M5-B	M5	5	20
GN751-12-48-M12-B	M12	12	48	GN751-6-12-M6-B	M6	6	12
GN751-14-28-M14-B	M14	14	28	GN751-6-24-M6-B	M6	6	24
GN751-14-56-M14-B	M14	14	56	GN751-8-16-M8-B	M8	8	16
GN751-16-32-M16-B	M16	16	32	GN751-8-32-M8-B	M8	8	32

Joint piece; steel; ELESA+GANTER



Manufacturer : ELESA+GANTER
 Type of mounting element : joint piece
 Material : steel
 Plating material : zinc
 Kind of thread : right hand thread, inside
 Related items : GN751

Information : more products from this series available on www.tme.eu

Symbol	Thread	Hole dia. [mm]	Symbol	Thread	Hole dia. [mm]
GN752-6-M6	M6	6	GN752-12-M12	M12	12
GN752-8-M8	M8	8	GN752-14-M14	M14	14
GN752-10-M10	M10	10	GN752-16-M16	M16	16

Clasp; ELESA+GANTER



Manufacturer : ELESA+GANTER
 Mounting element : clasp

Symbol	Body material	Length [mm]	Width [mm]	Holding force [N]
GN851-160-T2	hardened steel	98	28	1600
GN851-320-T2	hardened steel	152	44	3200
GN851-700-T2	hardened steel	220	54	7000
GN851-320-T2-NI	stainless steel	320	44	3200
GN851-160-T2-NI	stainless steel	98	28	1600

Knob; ELESA+GANTER



Manufacturer : ELESA+GANTER
 Mounting element : knob
 Body colour : black
 Plunger material : zinc plated steel
 Body mat. : technopolymer PP

Information : more products from this series available on www.tme.eu

Symbol	Dia. [mm]	Ht. [mm]	Ext. thread	Thread len. [mm]
VCT.32P-M6X20	32	23	M6	20
VCT.32P-M6X20-C2	32	23	M6	20
VCT.32P-M6X25-C6	32	23	M6	25
VCT.32P-M6X30-C2	32	23	M6	30
VCT.32P-M8X30-C3	32	23	M8	30

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Knob; ELESA+GANTER (cont.)

Symbol	Dia. [mm]	Ht. [mm]	Ext. thread	Thread len. [mm]
VCT.32P-M8X40-C4	32	23	M8	40
VCT.32P-M6X50-C3	32	23	M6	50
VCT.32P-M6X50-C5	32	23	M6	50
VCT.32P-M8X50-C4	32	23	M8	50
VCT.32P-M8X50-C9	32	23	M8	50
VCT.40P-M10X20-C5	40	23	M10	20
VCT.40P-M6X25-C9	40	27	M6	25
VCT.40P-M6X30-C2	40	27	M6	30
VCT.50P-M10X20-C3	50	32	M10	20
VCT.50P-M8X20-C6	50	32	M8	20
VCT.50P-M10X25-C2	50	32	M10	25
VCT.50P-M12X30-C5	50	32	M12	30
VCT.50P-M8X30-C2	50	32	M8	30
VCT.50P-M8X30-C4	50	32	M8	30
VCT.50P-M10X40-C2	50	32	M10	40
VCT.50P-M8X40-C4	50	32	M8	40
VCT.50P-M8X40-C6	50	32	M8	40
VCT.50P-M10X50-C2	50	32	M10	50
VCT.50P-M10X60-C2	50	32	M10	60
VCT.63P-M12X50	63	37	M12	50

Cap:

- black (VCT.32P-M6X20, VCT.32P-M8X50-C9, VCT.40P-M6X25-C9, VCT.63P-M12X50)
- orange (VCT.xxx-C2)
- red (VCT.xxx-C6)
- grey (VCT.xxx0-C3)
- yellow (VCT.xxx0-C4)
- blue (VCT.xxx0-C5)

Foot; ELESA+GANTER



Manufacturer : ELESA+GANTER
 Mounting element : foot
 Body material : technopolymer PA
 Version : rigid, with lever
 Plunger material : steel

Information : more products from this series available on www.tme.eu

Symbol	Base dia. [mm]	Ht. [mm]	Thread	Plunger length [mm]	Static load [N]
LX.25-SW13-M6X24	25	11	M6	24	1500
LX.25-SW13-M6X62	25	11	M6	62	1500
LX.25-SW13-M8X22	25	11	M8	22	2500
LX.25-SW13-M8X72	25	11	M8	72	2500
LX.30-SW17-M8X31	30	12	M8	31	2500
LX.30-SW17-M8X71	30	12	M8	71	2500
LX.40-SW17-M8X70	40	13	M8	70	2500
LX.40-SW17-M8X30	40	13	M8	30	2500
LX.40-SW17-M8X50	40	13	M8	50	2500
LX.40-SW17-M10X50	40	13	M10	50	3000
LX.40-SW17-M10X70	40	13	M10	70	3000

Spacer sleeve; cylindrical; DREMEC



Manufacturer : DREMEC
 Spacer : spacer sleeve
 Sleeve shape : cylindrical
 Plating material : nickel
 Material : brass

Information : more products from this series available on www.tme.eu

Symbol	Int. dia. [mm]	Out. diam. [mm]	Spacer leng. [mm]	Symbol	Int. dia. [mm]	Out. diam. [mm]	Spacer leng. [mm]
DR314/2.1X2	2.1	4	2	DR3110/5.3X9	5.3	10	9
DR314/2.1X4	2.1	4	4	DR3110/5.3X18	5.3	10	18
DR314/2.1X9	2.1	4	9	DR3110/5.3X25	5.3	10	25
DR314/2.1X12	2.1	4	12	DR3110/5.3X30	5.3	10	30
DR315/2.6X1	2.6	5	1	DR3110/6.2X3	6.2	10	3
DR315/3.1X10	3.1	5	10	DR3110/6.2X5	6.2	10	5
DR315/3.2X3	3.2	5	3	DR3110/6.2X7	6.2	10	7
DR315/3.2X9	3.2	5	9	DR3110/6.2X8	6.2	10	8
DR315/3.5X5	3.5	5	5	DR3110/6.2X10	6.2	10	10
DR316/3.2X1	3.2	6	1	DR3110/6.2X12	6.2	10	12
DR316/3.2X4	3.2	6	4	DR3110/6.2X20	6.2	10	20

Symbol	Int. dia. [mm]	Out. diam. [mm]	Spacer leng. [mm]	Symbol	Int. dia. [mm]	Out. diam. [mm]	Spacer leng. [mm]
DR316/3.2X5	3.2	6	5	DR3110/6.2X30	6.2	10	30
DR316/3.2X9	3.2	6	9	DR3112/8.2X8	8.2	12	8
DR316/3.2X12	3.2	6	12	DR3112/8.2X12	8.2	12	12
DR316/3.2X15	3.2	6	15	DR3112/8.2X16	8.2	12	16
DR316/3.2X20	3.2	6	20	DR3112/8.2X25	8.2	12	25
DR316/3.2X30	3.2	6	30	DR3112/8.2X35	8.2	12	35
DR316/4.5X30	4.5	6	30	DR3112/8.2X40	8.2	12	40
DR317/4.3X4	4.3	7	4	DR3112/8.2X50	8.2	12	50
DR317/4.3X14.5	4.3	7	14.5	DR3112/8.2X60	8.2	12	60
DR318/4.3X3	4.3	8	3	DR3116/10.5X10	10.5	16	10
DR318/4.3X5	4.3	8	5	DR3116/10.5X12	10.5	16	12
DR318/4.3X8	4.3	8	8	DR3116/10.5X18	10.5	16	18
DR318/4.3X10	4.3	8	10	DR3116/10.5X25	10.5	16	25
DR318/4.3X15	4.3	8	15	DR3116/10.5X40	10.5	16	40
DR318/4.3X30	4.3	8	30	DR3116/10.5X50	10.5	16	50
DR3110/5.3X2	5.3	10	2	DR3116/10.5X55	10.5	16	55
DR3110/5.3X3	5.3	10	3	DR3116/10.5X60	10.5	16	60
DR3110/5.3X5	5.3	10	5				

Screwed spacer sleeve; steel; DREMEC



Manufacturer : DREMEC
 Spacer : screwed spacer sleeve
 Sleeve shape : hexagonal
 Features : with internal threaded hole on both ends
 Material : steel
 Plating material : zinc

Information : more products from this series available on www.tme.eu

Symbol	Int. thread	Spacer length [mm]	Spanner size [mm]	Symbol	Int. thread	Spacer length [mm]	Spanner size [mm]
TFF-M3X5/DR124	M3	5	5.5	TFF-M5X20/DR128	M5	20	8
TFF-M3X8/DR124	M3	8	5.5	TFF-M5X30/DR128	M5	30	8
TFF-M3X10/DR124	M3	10	5.5	TFF-M5X40/DR128	M5	40	8
TFF-M3X15/DR124	M3	15	5.5	TFF-M5X50/DR128	M5	50	8
TFF-M3X20/DR124	M3	20	5.5	TFF-M5X60/DR128	M5	60	8
TFF-M3X30/DR124	M3	30	5.5	TFF-M5X70/DR128	M5	70	8
TFF-M3X40/DR125	M3	40	6	TFF-M5X80/DR128	M5	80	8
TFF-M3X50/DR124	M3	50	5.5	TFF-M5X100/DR128	M5	100	8
TFF-M3X75/DR125	M3	75	6	TFF-M6X10/DR129	M6	10	10
TFF-M3X85/DR125	M3	85	6	TFF-M6X20/DR129	M6	20	10
TFF-M3X95/DR125	M3	95	6	TFF-M6X30/DR129	M6	30	10
TFF-M3X100/DR125	M3	100	6	TFF-M6X40/DR129	M6	40	10
TFF-M4X5/DR127	M4	5	8	TFF-M6X50/DR129	M6	50	10
TFF-M4X8/DR127	M4	8	8	TFF-M6X60/DR129	M6	60	10
TFF-M4X10/DR127	M4	10	8	TFF-M6X80/DR129	M6	80	10
TFF-M4X12/DR127	M4	12	8	TFF-M6X95/DR129	M6	95	10
TFF-M4X15/DR127	M4	15	8	TFF-M6X100/DR129	M6	100	10
TFF-M4X18/DR127	M4	18	8	TFF-M8X15/DR1213	M8	15	13
TFF-M4X20/DR127	M4	20	8	TFF-M8X20/DR1213	M8	20	13
TFF-M4X30/DR127	M4	30	8	TFF-M8X25/DR1213	M8	25	13
TFF-M4X40/DR127	M4	40	8	TFF-M8X30/DR1213	M8	30	13
TFF-M4X50/DR127	M4	50	8	TFF-M8X40/DR1213	M8	40	13
TFF-M4X60/DR127	M4	60	8	TFF-M8X50/DR1213	M8	50	13
TFF-M4X70/DR127	M4	70	8	TFF-M8X60/DR1213	M8	60	13
TFF-M4X80/DR127	M4	80	8	TFF-M8X70/DR1213	M8	70	13
TFF-M4X90/DR127	M4	90	8	TFF-M8X80/DR1213	M8	80	13
TFF-M4X100/DR127	M4	100	8	TFF-M8X95/DR1213	M8	95	13
TFF-M5X8/DR128	M5	8	8	TFF-M8X100/DR1213	M8	100	13
TFF-M5X10/DR128	M5	10	8				

Screwed spacer sleeve; hexagonal; black finish



Manufacturer : DREMEC
 Spacer : screwed spacer sleeve
 Sleeve shape : hexagonal
 Material : brass
 Plating material : black finish, nickel
 Features : with internal and external thread

Information : more products from this series available on www.tme.eu

Internal thread : M3
 External thread : M3
 Spanner size : 5mm
 L3 dimension : 8mm

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Screwed spacer sleeve; hexagonal; black finish (cont.)

Symbol	Spacer length [mm]
TFM-M3X5/DR213BK	5
TFM-M3X10/DR213BK	10
TFM-M3X12/DR213BK	12
TFM-M3X15/DR213BK	15
TFM-M3X18/DR213BK	18
TFM-M3X20/DR213BK	20
TFM-M3X6/DR213BK	6
TFM-M3X8/DR213BK	8

Lock; zinc and aluminium alloy; RST ROZTOCZE



Manufacturer : RST ROZTOCZE
 Mounting element : lock
 Material : zinc and aluminium alloy
 Features : without key
 Closing lever operation depth : 21mm

Symbol	Key code	Plating material
M22-T9-21/3/45CR	T9	chromium
M22-D5-21/3/45CR	D5	chromium
M22-T9-21/3/45NI	T9	nickel
M22-D5-21/3/45NI	D5	nickel
M22-T9-21/3/45BK	T9	black finish
M22-D5-21/3/45BK	D5	black finish

Electromagnetic lock



Mounting element : Electromagnetic lock

Manufacturer : LOCKPOL

Information : **more products from this series available on www.tme.eu**

Symbol	U _{sup} [V AC]	Sup. [V DC]	Version
1410-6-12V-AC/DC	6...12	6...12	with adjustable hook
1410RF-12-24V-ACDC	12...24	12...24	-
1410RFT6-12V-AC/DC	6...12	6...12	-
1411RF-12V-DC	-	12	reversing
1411RFT-24V-DC	-	24	reversing
1418RF-12-24V-ACDC	12...24	12...24	low current
1418RFT12-24VAC/DC	12...24	12...24	low current
1418RFW24-48VAC/DC	24...48	24...48	low current
1420-12-24V-AC/DC	12...24	12...24	with switch
1420-6-12V-AC/DC	6...12	6...12	with switch
1420RFT12-24VAC/DC	-	12...24	with switch
1421-12V-DC	-	12	reversing, with switch
1421RFW-12V-DC	-	12	reversing, with switch
1428RFT12-24VAC/DC	12...24	12...24	low current, with switch
1428RFW24-48VAC/DC	24...48	24...48	low current, with switch
1433-6-12V-AC/DC	6...12	6...12	with the internal memory
1433RFW12-24VAC/DC	12...24	12...24	with the internal memory
1433RFW6-12VAC/DC	6...12	6...12	with the internal memory
1438-24-48V-AC/DC	24...48	24...48	low current, with the internal memory
1438RF-12-24V-ACDC	12...24	12...24	low current, with the internal memory
1438RFT24-48VAC/DC	24...48	24...48	low current, with the internal memory
1443RF-12-24V-ACDC	12...24	12...24	with the internal memory, with switch
1448RFW24-48VAC/DC	24...48	24...48	low current, with the internal memory, with switch
1560-12-24V-AC/DC	12...24	12...24	strengthened construction, with monitoring
1710-6-12V-AC/DC	6...12	6...12	-
1711-12V-DC	-	12	reversing
1720BB-12-24V-DC	-	12...24	with switch
1728-12-24V-AC/DC	12...24	12...24	low current, with switch
1738-24-48V-AC/DC	24...48	24...48	low current, with the internal memory
1760-6-12V-AC/DC	6...12	6...12	with monitoring
1761-24V-DC	-	24	with monitoring
1810RFT-12-24VACDC	12...24	12...24	with a slip-on
1811RF-12V-DC	-	12	radial, reversing
1861RF-24V-DC	-	24	radial, reversing, with monitoring
LOC-1410-12/24ACDC	12...24	12...24	with adjustable hook
LOC-1411RF-24DC	-	22...25	reversing, with adjustable hook

Holder; technopolymer PA; ELESA+GANTER



Manufacturer : ELESA+GANTER
 Type of mounting element : holder
 Material : technopolymer PA

Information : **more products from this series available on www.tme.eu**

Symbol	Colour	L. [mm]	Panel cutout diam. [mm]	Width [mm]	Ht. [mm]	Mount. holes pitch [mm]
M.443/110-CH	black	109	6.5	21	38	93.5
M.443/110-CH-C6	red	109	6.5	21	38	93.5
M.443/140-8-CH-C2	orange	137	8.5	26	41	117
M.443/140-8-CH-C9	black	137	8.5	26	41	117
M.443/150-CH-C2	orange	150	8.5	27	45	132
M.443/150-CH-C9	black	150	8.5	27	45	132
M.443/170-CH-C2	orange	160	8.5	27	46	140
M.443/180-CH-C2	orange	172	8.5	27	47	149
M.443/190-CH-C2	orange	179	8.5	28	50	160
M.443/200-CH-C9	black	196	8.5	28	50	179
M.443/260-CH-C9	black	260	10.5	30	54	235

Lever; adjustable; ELESA+GANTER



Manufacturer : ELESA+GANTER

Mounting element : lever

Kind of toggle : adjustable

Manufacturer series : ERGOSTYLE®

Handle material : technopolymer PA

Resistance to : most of oils, most of solvents, most of lubricants

Body colour : black

Operating temperature : -30...130°C

Plunger material : steel

Information : **more products from this series available on www.tme.eu**

Symbol	Ext. thread	Lever length [mm]	Thread len. [mm]	Slider height [mm]	Overall len. [mm]
ERX.30P-M5X10-C1	M5	30	10	30	37.5
ERX.30P-M6X10-C1	M6	30	10	30	37.5
ERX.30P-M6X20-C1	M6	30	20	30	37.5
ERX.44P-M5X10-C1	M5	44	10	32.5	52
ERX.44P-M5X10-C4	M5	44	10	32.5	52
ERX.44P-M5X10-C6	M5	44	10	32.5	52
ERX.44P-M5X16-C5	M5	44	16	32.5	52
ERX.44P-M5X20-C3	M5	44	20	32.5	52
ERX.44P-M5X20-C4	M5	44	20	32.5	52
ERX.44P-M5X20-C6	M5	44	20	32.5	52
ERX.44P-M6X16-C1	M6	44	16	32.5	52
ERX.44P-M6X16-C2	M6	44	16	32.5	52
ERX.44P-M6X16-C4	M6	44	16	32.5	52
ERX.44P-M6X16-C6	M6	44	16	32.5	52
ERX.44P-M6X20-C2	M6	44	20	32.5	52
ERX.44P-M6X20-C4	M6	44	20	32.5	52
ERX.44P-M6X20-C6	M6	44	20	32.5	52
ERX.44P-M6X25-C3	M6	44	25	32.5	52
ERX.44P-M6X25-C4	M6	44	25	32.5	52
ERX.44P-M6X25-C5	M6	44	25	32.5	52
ERX.44P-M6X30-C1	M6	44	30	32.5	52
ERX.44P-M6X30-C5	M6	44	30	32.5	52
ERX.44P-M6X40-C2	M6	44	40	32.5	52
ERX.44P-M6X40-C6	M6	44	40	32.5	52
ERX.63P-M6X10-C2	M6	63	10	43	72.5
ERX.63P-M6X16-C3	M6	63	16	43	72.5
ERX.63P-M6X16-C6	M6	63	16	43	72.5
ERX.63P-M6X20-C3	M6	63	20	43	72.5
ERX.63P-M6X25-C1	M6	63	25	43	72.5
ERX.63P-M6X30-C2	M6	63	30	43	72.5
ERX.63P-M6X30-C4	M6	63	30	43	72.5
ERX.63P-M6X30-C6	M6	63	30	43	72.5
ERX.63P-M8X20-C1	M8	63	20	43	72.5
ERX.63P-M8X20-C4	M8	63	20	43	72.5
ERX.63P-M8X20-C6	M8	63	20	43	72.5
ERX.63P-M8X25-C3	M8	63	25	43	72.5

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Mechanical elements

Lever; adjustable; ELESA+GANTER (cont.)

Symbol	Ext. thread	Lever length [mm]	Thread len. [mm]	Slider height [mm]	Overall len. [mm]
ERX.63P-M8X25-C4	M8	63	25	43	72.5
ERX.63P-M8X25-C6	M8	63	25	43	72.5
ERX.63P-M8X30-C3	M8	63	30	43	72.5
ERX.63P-M8X30-C6	M8	63	30	43	72.5
ERX.63P-M8X35-C1	M8	63	35	43	72.5
ERX.63P-M8X35-C4	M8	63	35	43	72.5
ERX.63P-M8X35-C6	M8	63	35	43	72.5
ERX.63P-M8X40-C3	M8	63	40	43	72.5
ERX.63P-M8X45-C1	M8	63	45	43	72.5
ERX.63P-M8X50-C1	M8	63	50	43	72.5
ERX.63P-M8X50-C3	M8	63	50	43	72.5
ERX.63P-M8X50-C6	M8	63	50	43	72.5
ERX.63P-M8X60-C2	M8	63	60	43	72.5
ERX.63P-M8X60-C5	M8	63	60	43	72.5
ERX.63P-M8X70-C2	M8	63	70	43	72.5

Magnet: permanent; ELESA+GANTER



Manufacturer : ELESA+GANTER
 Type of magnet : permanent
 Plunger material : steel
 Enclosure material : steel

Symbol	Dia. [mm]	Ext. thread	Ht. [mm]	Plunger length [mm]	Force [N]
GN50.3-ND-10-M4	10	M4	4.5	8	25
GN50.3-ND-13-M5	13	M5	4.5	8	60
GN50.3-ND-16-M6	16	M6	4.5	8	95
GN50.3-ND-20-M6	20	M6	6	10	140
GN50.3-ND-25-M6	25	M6	7	10	200
GN50.3-ND-32-M6	32	M6	7	10	350
GN50.3-ND-10-M3	10	M3	4.5	7	25
GN50.3-ND-16-M4	16	M4	4.5	8	85
GN50.3-ND-40-M8	40	M8	8	12	670
GN50.3-ND-47-M8	47	M8	9.2	13	790
GN50.3-ND-6-M3	6	M3	4.5	7	5
GN50.3-ND-8-M4	8	M4	4.5	8	13
GN50.3-HF-10-M3	10	M3	4.5	7	4
GN50.3-HF-13-M3	13	M3	4.5	7	10
GN50.3-HF-16-M3	16	M3	4.5	7	18
GN50.3-HF-20-M3	20	M3	6	7	30
GN50.3-HF-25-M4	25	M4	7	8	40
GN50.3-HF-32-M4	32	M4	7	8	80
GN50.3-HF-32-M6	32	M6	7	12	80
GN50.3-HF-47-M6	47	M6	9	8	180
GN50.3-HF-63-M6	63	M6	14	15	350
GN50.3-HF-16-M4	16	M4	4.5	6	18
GN50.3-HF-25-M6	25	M6	7	20	40
GN50.3-HF-57-M6	57	M6	10.5	8	280
GN50.3-HF-80-M8	80	M8	10	13	600

Symbol: GN50.3-ND-xxx:

Material:
 — neodymium

Symbol: GN50.3-HF-xxx:

Material:
 — hard ferrite

Bearing: sleeve bearing; IGUS



Manufacturer : IGUS
 Bearing : sleeve bearing
 Version : with flange
 Features : lubricant-free
 Operating temperature : -50...90°C
 Shore hardness : 74

Material : iglidur® J
 Colour : yellow

Information : **more products from this series available on www.tme.eu**

Symbol	Int. dia. [mm]	Out. diam. [mm]	Length [mm]	Flange dia. [mm]
JFM-0304-05	3	4	5	7.5
JFM-0405-06	4	5	6	9.5
JFM-0507-03	5	7	3	11

Symbol	Int. dia. [mm]	Out. diam. [mm]	Length [mm]	Flange dia. [mm]
JFM-0608-04	6	8	4	12
JFM-0810-05	8	10	5	15
JFM-1012-05	10	12	5	18
JFM-1214-20	12	14	20	20
JFM-1517-17	15	17	17	23
JFM-1820-04	18	20	4	26
JFM-2023-11	20	23	11	30
JFM-2528-06	25	28	6	35
JFM-283235-07	28	32	7	35
JFM-3034-26	30	34	26	42
JFM-5055-50	50	55	50	63

Bearing: sleeve bearing; iglidur® J; IGUS



Manufacturer : IGUS
 Bearing : sleeve bearing
 Operating temperature : -50...90°C
 Shore hardness : 74

Material : iglidur® J
 Colour : yellow
 Features : lubricant-free

Information : **more products from this series available on www.tme.eu**

Symbol	Int. dia. [mm]	Out. diam. [mm]	L. [mm]	Symbol	Int. dia. [mm]	Out. diam. [mm]	L. [mm]
JSM-0304-05	3	4.5	5	JSM-1214-10	12	14	10
JSM-0405-08	4	5.5	8	JSM-1517-20	15	17	20
JSM-0608-06	6	8	6	JSM-1618-15	16	18	15
JSM-0810-08	8	10	8	JSM-2023-15	20	23	15
JSM-1012-05	10	12	5	JSM-4044-30	40	44	30

Bearing: single row deep groove ball; SKF



Manufacturer : SKF
 Bearing : single row deep groove ball
 Bearing : rolling

Information : **more products from this series available on www.tme.eu**

Race material : bearing steel
 Rolling element material : bearing steel
 Cage material : steel

Symbol	Int. dia. [mm]	Out. diam. [mm]	Width [mm]	Seal
SKF6001-2RSH	12	28	8	caoutchouc, two-side
SKF6001-2Z	12	28	8	metal plates, two-side
SKF6002-2Z	15	32	9	metal plates, two-side
SKF6003-2RSH	17	35	10	caoutchouc, two-side
SKF6004-2Z	20	42	12	metal plates, two-side
SKF6006-2RS1	30	55	13	caoutchouc, two-side
SKF6006-2Z	30	55	13	metal plates, two-side
SKF6009-2RS1	45	75	16	caoutchouc, two-side
SKF6010-2RS1	50	80	16	caoutchouc, two-side
SKF607-2RSH	7	19	6	caoutchouc, two-side
SKF61901-2RS1	12	24	6	caoutchouc, two-side
SKF6201-2RSH	12	32	10	caoutchouc, two-side
SKF6202-2RSH	15	35	11	caoutchouc, two-side
SKF6202-2Z/C3	15	35	11	metal plates, two-side
SKF6203-2Z	17	40	12	metal plates, two-side
SKF6204-2Z/C3	20	47	14	metal plates, two-side
SKF6206-2RS1/C3	30	62	16	caoutchouc, two-side
SKF6206-2Z/C3	30	62	16	metal plates, two-side
SKF6207-2RS1/C3	35	72	17	caoutchouc, two-side
SKF6208-2RS1/C3	40	80	18	caoutchouc, two-side
SKF6208-2Z/C3	40	80	18	metal plates, two-side
SKF6210-2RS1	50	90	20	caoutchouc, two-side
SKF6212	60	110	22	none
SKF625-2Z	5	16	5	metal plates, two-side
SKF627-2Z	7	22	7	metal plates, two-side
SKF629-2Z	9	26	8	metal plates, two-side
SKF6302-2Z	15	42	13	metal plates, two-side
SKF6305-2RS1	25	62	17	caoutchouc, two-side
SKF6306-2Z	30	72	19	metal plates, two-side
SKF6312-2Z/C3	60	130	31	metal plates, two-side

cont. on the next page

Bearing: single row deep groove ball; SKF (cont.)

Symbol	Int. dia. [mm]	Out. diam. [mm]	Width [mm]	Seal
SKF6006-2Z/C3	30	55	13	metal plates, two-side
SKF6008-2Z	40	68	15	metal plates, two-side
SKF6210-2Z	50	90	20	metal plates, two-side
SKF6211-2Z/C3	55	100	21	metal plates, two-side
SKF62201-2RS1	12	32	14	caoutchouc, two-side
SKF62302-2RS1	15	42	17	caoutchouc, two-side
SKF63004-2RS1	20	42	16	caoutchouc, two-side
SKF6301-2RSH/C3	12	37	12	caoutchouc, two-side
SKF6302-2RSH/C3	15	42	13	caoutchouc, two-side
SKF6309-2Z	45	100	25	metal plates, two-side
SKF61800-2RS1	10	19	5	caoutchouc, two-side
SKF6203	17	40	12	none

Radial clearance:
 — normal (SKF6001-2RSH, SKF6001-2Z, SKF6002-2Z, SKF6003-2RSH, SKF6004-2Z, SKF6006-2RS1, SKF6006-2Z, SKF6009-2RS1, SKF6008-2Z, SKF6010-2RS1, SKF607-2RSH, SKF61901-2RS1, SKF61800-2RS1, SKF6201-2RSH, SKF6202-2RSH, SKF6202-2Z/C3, SKF6203-2Z, SKF6203, SKF6210-2RS1, SKF6210-2Z, SKF6212, SKF625-2Z, SKF627-2Z, SKF629-2Z, SKF62201-2RS1, SKF62302-2RS1, SKF6302-2Z, SKF6305-2RS1, SKF6306-2Z, SKF63004-2RS1, SKF6309-2Z)
 — C3 (SKF6204-2Z/C3, SKF6206-2RS1/C3, SKF6206-2Z/C3, SKF6207-2RS1/C3, SKF6208-2RS1/C3, SKF6208-2Z/C3, SKF6211-2Z/C3, SKF63xxx/C3, SKF6006-2Z/C3)

Bearing: tapered roller; SKF



Manufacturer : SKF
 Bearing : tapered roller
 Race material : bearing steel
 Cage material : steel
 Rolling element material : bearing steel
 Seal : none
 Bearing : rolling
Information : more products from this series available on www.tme.eu

Symbol	Width [mm]	Int. dia. [mm]	Out. diam. [mm]
SKF30204J2/Q	15.25	20	47
SKF32010X/Q	20	50	80
SKF30303J2	15.25	17	47
SKF30310J2/Q	29.25	50	110
SKF32018X/Q	32	90	140
SKF33108/Q	26	40	75
SKF32007X	18	35	62
SKF32013X	23	65	100

Connecting tubes; aluminium; KRAFTBERG



Manufacturer : KRAFTBERG
 Mounting element : connecting tubes
 Material : aluminium
 L. : 1m

Information : more products from this series available on www.tme.eu

Symbol	Number of slots	Width [mm]	Ht. [mm]	Profile raster [mm]	Width of the groove [mm]
K2020-I5/1M	4	20	20	20	5
K2020-I5/1M-BK	4	20	20	20	5
K2040-I5/1M	6	20	40	20	5
K3030L1N-I6/1M	3	30	30	30	6
K3030L2N90-I6/1M	2	30	30	30	6
K3030L-I6/1M	4	30	30	30	6
K30LR90-I6/1M	2	30	30	30	6
K3060L-I6/1M	6	30	60	30	6
K4040L1N-I8/1M	3	40	40	40	8
K4040L2N180-I8/1M	2	40	40	40	8
K4040L2N90-I8/1M	2	40	40	40	8
K4040L-I8/1M	-	40	40	40	8
K40LR90-I8/1M	2	40	40	40	8

Version (K30LR90-I6/1M, K40LR90-I8/1M):
 — angular
 Colour:
 — black (K2020-I5/1M-BK)

— natural (K2020-I5/1M, K2040-I5/1M, K30xxx-I6/1M, K40xxx-I8/1M)

Angle bracket; steel; GN967; ELESA+GANTER



elesa+Ganter

Manufacturer : ELESA+GANTER
 Mounting element : angle bracket
 Material : steel
 Application : for profiles
Information : more products from this series available on www.tme.eu
 Manufacturer series : GN967

Symbol	Colour	Profile raster [mm]	H [mm]	L [mm]	Holes pitch [mm]
GN967-20-20-L-1-ZB	steel	20	20	20	20
GN967-20-20-L-2-SR	silver	20	20	20	20
GN967-20-20-L-2-ZB	steel	20	20	20	20
GN967-30-30-L-1-SW	black	30	30	30	30
GN967-30-30-L-1-ZB	steel	30	30	30	30
GN967-40-40-L-1-SR	silver	40	40	40	40
GN967-40-40-L-1-SW	black	40	40	40	40
GN967-40-40-L-2-SR	silver	40	40	40	40
GN967-40-40-L-2-ZB	steel	40	40	40	40
GN967-45-45-L-1-SW	black	45	45	45	45
GN967-45-45-L-2-ZB	steel	45	45	45	45

Flat bar; steel; GN967; ELESA+GANTER

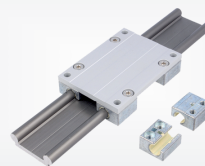


elesa+Ganter

Manufacturer : ELESA+GANTER
 Mounting element : flat bar
 Material : steel
 Application : for profiles
 Manufacturer series : GN967
Information : more products from this series available on www.tme.eu

Symbol	Width [mm]	L [mm]	Profile raster [mm]	Holes pitch [mm]	Colour
GN967-30-60-F-1-SW	30	60	30	30	black
GN967-40-80-F-1-SW	40	80	40	40	black
GN967-45-90-F-2-SW	45	90	45	45	black
GN967-30-60-F-1-SR	30	60	30	30	silver
GN967-40-80-F-2-SR	40	80	40	40	silver
GN967-45-90-F-2-SR	45	90	45	45	silver
GN967-20-40-F-1-ZB	20	40	20	20	steel
GN967-20-40-F-2-ZB	20	40	20	20	steel
GN967-40-80-F-2-ZB	40	80	40	40	steel
GN967-45-90-F-2-ZB	45	90	45	45	steel

Linear guides



igus

Manufacturer : IGUS
 Manufacturer series : DryLin® W

Symbol	Mounting element	Dia. [mm]	L. [mm]
WS-10-500	single rail	10	500
WS-10-750	single rail	10	750
WS-10-1000	single rail	10	1000
WS-10-1250	single rail	10	1250
WS-10-40-1000	double rail	10	1000
WS-10-40-1250	double rail	10	1250
WS-10-40-500	double rail	10	500
WS-10-40-750	double rail	10	750
WS-16-500	single rail	16	500
WS-16-750	single rail	16	750
WS-16-1000	single rail	16	1000
WS-16-1250	single rail	16	1250
WS-16-60-1000	double rail	16	1000
WS-16-60-1250	double rail	16	1250
WS-16-60-500	double rail	16	500

cont. on the next page

Mechanical elements

Linear guides (cont.)

Symbol	Mounting element	Dia. [mm]	L. [mm]
WS-16-60-750	double rail	16	750
WS-20-500	single rail	20	500
WS-20-750	single rail	20	750
WS-20-1000	single rail	20	1000
WS-20-1250	single rail	20	1250
WS-20-80-1000	double rail	20	1000
WS-20-80-1250	double rail	20	1250
WS-20-80-500	double rail	20	500
WS-20-80-750	double rail	20	750
WJUM-01-10	trolley	10	-
WJUM-01-16	trolley	16	-
WJUM-01-20	trolley	20	-
WW-10-40-10	trolley	10	100
WW-10-40-10-HKA	trolley	10	100
WW-16-60-10	trolley	16	100
WW-20-80-15	trolley	20	150

ELEROLL Modular transport system

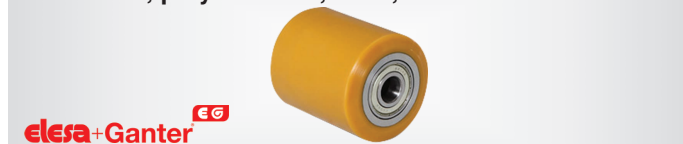


Manufacturer : ELESAGANTER

Application : ELEROLL transport system

Symbol	Manufacturer series	Type of mounting element
RLT-U-TPU	ELEROLL	roller track
RLT-U-PA	ELEROLL	roller track
RLT-U15-PA	ELEROLL	roller track
RLS-U-POM	ELEROLL	ball track
RLT-CE	ELEROLL	containment edge
RLT-HJ	ELEROLL	joining header
RLT-HE	ELEROLL	end header
RLT-BR	-	brake
RLT-BRS	-	brake with stop device
RLT-MB	ELEROLL	holder
RLT-MS	ELEROLL	mounting holder
RLT-MS-A12	ELEROLL	mounting holder
RLT-AL-1080-AN	ELEROLL	connecting tubes
RLT-AL-540-AN	ELEROLL	connecting tubes

Pallet roller; polyurethane, steel; ELESAGANTER



Manufacturer : ELESAGANTER

Mounting element : pallet roller

Material : polyurethane, steel

Version : hub with ball bearings

Rolling load : 4kN

Wheel width : 100mm

Wheel diameter : 85mm

Static load : 11kN

Dynamic load : 10kN

Manufacturer series : RE.G5

Symbol : Shore hardness

RE.G5-85X100-RSL 95

Transport wheel; polyurethane, cast iron; Series: RE.F4-H; ELESAGANTER



Manufacturer : ELESAGANTER

Mounting element : transport wheel

Material : polyurethane, cast iron

Shore hardness : 95

Body material : steel

Manufacturer series : RE.F4-H

Symbol	Wheel diameter [mm]	Wheel width [mm]	Ht. [mm]	Roll. load [kN]	Dyn. load [kN]	Force [kg]
RE.F4-100-PSL-H	100	38	138	2.2	3.5	224
RE.F4-100-SSF-H	100	38	138	2.2	3.5	224
RE.F4-100-SSL-H	100	38	138	2.2	3.5	224
RE.F4-125-PSL-H	125	50	170	2.7	5.5	275
RE.F4-125-SSF-H	125	50	170	2.7	5.5	275
RE.F4-125-SSL-H	125	50	170	2.7	5.5	275
RE.F4-150-PSL-H	150	50	200	2.9	7	295
RE.F4-150-SSF-H	150	50	200	2.9	7	295
RE.F4-150-SSL-H	150	50	200	2.9	7	295
RE.F4-200-PSL-H	200	50	250	3.8	7.5	387
RE.F4-200-SSF-H	200	50	250	3.8	7.5	387
RE.F4-200-SSL-H	200	50	250	3.8	7.5	387

Version:

- hub with pass-through hole
- torsional (RE.F4-xxx-SSL-H)
- torsional with lock (RE.F4-xxx-SSF-H)
- permanent (RE.F4-xxx-PSL-H)
- with mounting plate

RADER wheels, series CSGTK



Manufacturer : RADER

Mounting element : transport wheel

Bearing : ball

Material : foam

Operating temperature : -20...60°C

Manufacturer series : CSGTK

Symbol	Wheel diameter [mm]	Wheel width [mm]	Panel cutout diameter [mm]	Force [kg]
CSGTK-260/20K	260	75	20	100
CSGTK-400/12K	400	95	12	150
CSGTK-400/20K	400	95	20	150

Spur gear; technopolymer PA; ELESAGANTER



Type of mounting element : spur gear

Information : more products from this series available on www.tme.eu

Manufacturer : ELESAGANTER

Material : technopolymer PA

Manufacturer series : ZCL

Kind of material : fiber glass reinforced

Symbol	Manufacturer's part number	Number of teeth	Wheel width [mm]	Wheel diameter [mm]	Panel cutout diam. [mm]
ZCL-0.5-24	550011	24	16	13	-
ZCL-0.5-45	550023	45	16	23.5	-
ZCL-0.5-55	550029	55	16	28.5	4
ZCL-0.5-80	550035	80	16	41	4
ZCL-1.0-12	550103	12	25	14	4
ZCL-1.0-15	550109	15	25	17	4
ZCL-1.0-16	550111	16	25	18	5
ZCL-1.0-21	550121	21	25	23	5
ZCL-1.0-34	550147	34	25	36	8
ZCL-1.0-55	550183	55	25	57	14
ZCL-1.0-60	550189	60	25	62	14
ZCL-1.5-21	550319	21	30	34.5	8
ZCL-1.5-25	550327	25	30	40.5	8
ZCL-1.5-30	550337	30	30	48	12
ZCL-1.5-34	550345	34	30	54	12
ZCL-1.5-39	550355	39	30	61.5	16
ZCL-1.5-45	550365	45	30	70.5	16
ZCL-1.5-46	550367	46	30	72	16
ZCL-1.5-48	550371	48	30	75	16

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Spur gear; technopolymer PA; ELESA+GANTER (cont.)

ZCL-0.5-80	550035	80	16	41	4
ZCL-1.0-12	550103	12	25	14	4
ZCL-1.5-50	550373	50	30	78	16
ZCL-1.5-60	550385	60	30	93	20
ZCL-1.5-65	550389	65	30	100.5	20
ZCL-1.5-70	550391	70	30	108	20
ZCL-1.5-80	550395	80	30	123	20
ZCL-2.0-14	550505	14	35	32	8
ZCL-2.0-16	550509	16	35	36	8
ZCL-2.0-19	550515	19	35	42	10
ZCL-2.0-21	550519	21	35	46	10
ZCL-2.0-23	550523	23	35	50	10
ZCL-2.0-25	550527	25	35	54	10
ZCL-2.0-28	550533	28	35	60	14
ZCL-2.0-29	550535	29	35	62	14
ZCL-2.0-31	550539	31	35	66	14
ZCL-2.0-32	550541	32	35	68	16
ZCL-2.0-34	550545	34	35	72	16
ZCL-2.0-38	550553	38	35	80	16
ZCL-2.0-40	550557	40	35	84	16
ZCL-2.0-42	550561	42	35	88	16
ZCL-2.0-45	550567	45	35	94	16
ZCL-2.0-50	550577	50	35	104	20
ZCL-2.0-60	550597	60	35	124	20
ZCL-2.0-64	550605	64	35	132	20
ZCL-2.0-65	550607	65	35	134	20
ZCL-2.0-70	550617	70	35	144	20
ZCL-2.0-74	550625	74	35	152	20
ZCL-2.0-75	550627	75	35	154	20
ZCL-2.0-78	550633	78	35	160	20
ZCL-2.0-90	550657	90	35	184	20
ZCL-2.5-14	550703	14	40	40	8
ZCL-2.5-16	550707	16	40	45	10
ZCL-2.5-22	550719	22	40	60	16
ZCL-2.5-26	550727	26	40	70	16
ZCL-2.5-28	550731	28	40	75	16
ZCL-2.5-30	550735	30	40	80	16
ZCL-2.5-50	550763	50	40	130	20
ZCL-3.0-14	550805	14	45	48	12
ZCL-3.0-18	550813	18	45	60	12
ZCL-3.0-24	550825	24	45	78	16
ZCL-3.0-26	550829	26	45	84	16
ZCL-3.0-29	550835	29	45	93	16
ZCL-3.0-32	550841	32	45	102	16
ZCL-3.0-50	550875	50	45	156	20

Symbol: ZCL-0.5-24, ZCL-0.5-45:

Version:

— not drilled hub

Symbol: ZCL-0.5-55, ZCL-0.5-80, ZCL-1.xxx, ZCL-2.xxx, ZCL-3.0-xx:

Version:

— hub with pass-through hole

Rail rack; technopolymer PA; ELESA+GANTER



Manufacturer : ELESA+GANTER
 Type of mounting element : rail rack
 Material : technopolymer PA
 Manufacturer series : ZCR
 Kind of material : fiber glass reinforced

Symbol	Length	Mod- ule	Width	Height	Ver.
	[mm]		[mm]	[mm]	
ZCR-0.5-250	251	0.5	8	8	square section
ZCR-1.0-150	166	1	15	15	square section
ZCR-1.0-150-PD	151	1	15	15.5	with mounting bracket for mounting on a plane perpendicular to teeth
ZCR-1.0-150-PL	151	1	15	15.5	with mounting bracket for mounting on a plane parallel to teeth
ZCR-1.0-150-T	151	1	15	15.5	I-beam profile
ZCR-1.0-250	265	1	15	15	square section
ZCR-1.0-250-PD	248	1	15	15.5	with mounting bracket for mounting on a plane perpendicular to teeth
ZCR-1.0-250-PL	248	1	15	15.5	with mounting bracket for mounting on a plane parallel to teeth
ZCR-1.0-250-T	248	1	15	15.5	I-beam profile
ZCR-A-1.0-350	352	1	15	15	with steel core
ZCR-A-1.5-250	250	1.5	17	17	with steel core
ZCR-A-1.5-500	565	1.5	17	17	with steel core
ZCR-A-2.0-250	251	2	20	20	with steel core

Symbol	Length	Mod- ule	Width	Height	Ver.
	[mm]		[mm]	[mm]	
ZCR-A-2.0-500	565	2	20	20	with steel core
ZCR-A-3.0-250	254	3	30	30	with steel core
ZCR-A-3.0-500	500	3	30	30	with steel core
ZCR-A-4.0-1000	1018	4	2	28	with steel core

Belt pulley; T5; OPTIBELT



Manufacturer : OPTIBELT
 Type of mounting element : belt pulley
 Kind of profile : T5
 Material : aluminium
 Tooth pitch : 5mm
 Ver. : metric
 Wheel width : 21mm
 Belt width : 10mm
 Manufacturer series : ZRS

Information : **more products from this series available on www.tme.eu**

Symbol	Teeth	Wheel dia. [mm]	Symbol	Teeth	Wheel dia. [mm]
21-T5-10-200ZA	10	15.05	21-T5-27-200ZA	27	42.2
21-T5-12-200ZA	12	18.25	21-T5-28-200ZA	28	43.75
21-T5-14-200ZA	14	21.45	21-T5-30-200ZA	30	46.95
21-T5-15-200ZA	15	23.05	21-T5-32-200ZA	32	50.1
21-T5-16-200ZA	16	24.6	21-T5-36-200ZA	36	56.45
21-T5-18-200ZA	18	27.8	21-T5-40-200ZA	40	62.85
21-T5-19-200ZA	19	29.4	21-T5-42-200ZA	42	66
21-T5-20-200ZA	20	31	21-T5-44-000ZA	44	69.2
21-T5-22-200ZA	22	34.25	21-T5-48-000ZA	48	75.55
21-T5-24-200ZA	24	37.4	21-T5-60-000ZA	60	94.64
21-T5-25-200ZA	25	39			

Timing belt; maintenance-free, with steel wire cord; polyurethane; OPTIBELT



Manufacturer : OPTIBELT
 Type of mounting element : timing belt
 Material : polyurethane
 Version : maintenance-free, with steel wire cord
 Kind of profile : T5
 Tooth pitch : 5mm
 Belt height : 2.2mm
 Tooth height : 1.2mm
 Operating temperature : -30...80°C
 Manufacturer series : ALPHA TORQUE

Information : **more products from this series available on www.tme.eu**

Symbol	W [mm]	Teeth	L _w [mm]	Symbol	W [mm]	Teeth	L _w [mm]
T5-180-12-77ZA	12	36	180	T5-625-25-77ZA	25	125	625
T5-225-25-77ZA	25	45	225	T5-630-20-77ZA	20	126	630
T5-245-12-77ZA	12	49	245	T5-640-20-77ZA	20	128	640
T5-250-10-77ZA	10	50	250	T5-650-16-77ZA	16	130	650
T5-250-20-77ZA	20	50	250	T5-660-16-77ZA	16	132	660
T5-255-25-77ZA	25	51	255	T5-675-8-77ZA	8	135	675
T5-280-16-77ZA	16	56	280	T5-675-16-77ZA	16	135	675
T5-300-6-77ZA	6	60	300	T5-690-6-77ZA	6	138	690
T5-330-12-77ZA	12	66	330	T5-690-25-77ZA	25	138	690
T5-330-20-77ZA	20	66	330	T5-720-8-77ZA	8	144	720
T5-340-25-77ZA	25	68	340	T5-725-20-77ZA	20	145	725
T5-350-8-77ZA	8	70	350	T5-780-6-77ZA	6	156	780
T5-360-10-77ZA	10	72	360	T5-780-20-77ZA	20	156	780
T5-365-6-77ZA	6	73	365	T5-800-12-77ZA	12	160	800
T5-400-16-77ZA	16	80	400	T5-815-16-77ZA	16	163	815
T5-420-12-77ZA	12	84	420	T5-840-25-77ZA	25	168	840
T5-450-8-77ZA	8	90	450	T5-850-20-77ZA	20	170	850
T5-455-12-77ZA	12	91	455	T5-860-12-77ZA	12	172	860
T5-460-8-77ZA	8	92	460	T5-900-16-77ZA	16	180	900

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Mechanical elements

Timing belt; maintenance-free, with steel wire cord; polyurethane; OPTIBELT (cont.)

T5-280-16-77ZA	16	56	280	T5-675-16-77ZA	16	135	675
T5-300-6-77ZA	6	60	380	T5-690-6-77ZA	6	138	690
T5-475-20-77ZA	20	95	475	T5-940-6-77ZA	6	188	940
T5-480-16-77ZA	16	96	480	T5-990-16-77ZA	16	198	990
T5-500-25-77ZA	25	100	500	T5-1075-8-77ZA	8	215	1075
T5-525-20-77ZA	20	105	525	T5-1115-10FKZA	10	223	1115
T5-550-8-77ZA	8	110	550	T5-1140-10-77ZA	10	228	1140
T5-575-25-77ZA	25	115	575	T5-1315-25-77ZA	25	263	1315
T5-590-8-77ZA	8	118	590	T5-1350-8-77ZA	8	270	1350
T5-600-25-77ZA	25	120	600	T5-1440-6-77ZA	6	288	1440
T5-620-10-77ZA	10	124	620	T5-1440-10-77ZA	10	288	1440
T5-620-16-77ZA	16	124	620				

Rope; acid resistant steel A4; KRAFTBERG



Manufacturer : KRAFTBERG

Type of mounting element : rope

Material : acid resistant steel A4

Symbol	Length [m]	Rope plexus	Rope diameter [mm]
L1X19-F2-A4/10M	10	1x19	2
L1X19-F4-A4/10M	10	1x19	4
L1X19-F5-A4/10M	10	1x19	5
L7X19-F3-A4/10M	10	7x19	3
L7X19-F4-A4/10M	10	7x19	4
L7X19-F5-A4/10M	10	7x19	5
L7X19-F6-A4/10M	10	7x19	6
L7X7-F1.5-A4/50M	50	7x7	1.5
L7X7-F4-A4/10M	10	7x7	4
L7X7-F4-A4/50M	50	7x7	4
L7X7-F5-A4/10M	10	7x7	5
L7X7-F5-A4/50M	50	7x7	5

Ferrule; nickel; copper; for rope; KRAFTBERG



Manufacturer : KRAFTBERG

Type of mounting element : ferrule

Material : copper

Plating material : nickel

Application : for rope

Symbol	Length [mm]	Rope diameter [mm]	Symbol	Length [mm]	Rope diameter [mm]
TZ-2	9.3	2	TZ-5	18	5
TZ-3	11	3	TZ-6	21	6
TZ-4	14	4	TZ-8	28	8

ELESA+GANTER valve breather caps



Manufacturer : ELESA+GANTER

Type of mounting element : valve breather cap

Body material : technopolymer PA

Symbol	Pressure [mbar]	Overall len. [mm]	Thread	Out. diam. [mm]
SFV.16X1.5-10MB	10	29.5	M16	31
SFV.16X1.5-100MB	100	29.5	M16	31
SFV.18X1.5-10MB	10	29.5	M18	31
SFV.18X1.5-100MB	100	29.5	M18	31
SFV.20X1.5-10MB	10	29.5	M20	31
SFV.20X1.5-100MB	100	29.5	M20	31
SFV.22X1.5-10MB	10	29.5	M22	31
SFV.22X1.5-100MB	100	29.5	M22	31

Symbol	Pressure [mbar]	Overall len. [mm]	Thread	Out. diam. [mm]
SFV.3/8-10MB	10	29.5	G 3/8"	31
SFV.3/8-100MB	100	29.5	G 3/8"	31
SFV.1/4-10MB	10	29.5	G 1/4"	31
SFV.1/4-100MB	100	29.5	G 1/4"	31
SFV.1/2-10MB	10	29.5	G 1/2"	31
SFV.1/2-100MB	100	29.5	G 1/2"	31
SFV.3/4-10MB	10	36.5	G 3/4"	42
SFV.3/4-100MB	100	36.5	G 3/4"	42
SFV.1-10MB	10	36.5	G 1"	42
SFV.1-100MB	100	36.5	G 1"	42

Gasket; EPDM; BM GROUP



Manufacturer : BM GROUP

Type of mounting element : gasket

Gasket material : EPDM

Shore hardness : 60

Resistance to : most of oils

Symbol	Gland	Thickness [mm]	Int. dia. [mm]	Out. diam. [mm]
BM4912G	M12	2	11.8	16
BM4925G	M25	2	24.8	29
BM4940G	M40	2	39.8	46
BM4907G	PG7	2	12.5	16.5
BM4909G	PG9	2	15.2	19
BM4916G	PG16	2	22.5	27
BM4921G	PG21	3	28.3	33.5
BM4929G	PG29	3	37	43.5
BM4936G	PG36	3	47	55

O-ring set



Manufacturer : ORING USZCZELNIENIA TECHNICZNE

Symbol	Mounting element	Gasket	Ver.	Qty. in set [pcs.]
OBOX-275-NBR-IN	o-ring set	NBR caoutchouc	inch	275
OBOX-285-NBR-M	o-ring set	NBR caoutchouc	metric	285
OBOX-382C1-NBR-IN	o-ring set	NBR caoutchouc	inch	382
OBOX-385-NBR-M	o-ring set	NBR caoutchouc	metric	386
OBOX-392-NBR-M	o-ring set	NBR caoutchouc	metric	392
OBOX-404-NBR-M	o-ring set	NBR caoutchouc	metric	404
OBOX-425-FPM-IN/M	o-ring set	FPM	inch, metric	425
OBOX-425-NBR-M	o-ring set	NBR caoutchouc	metric	425
CUBOX-110A	copper pads	copper	inch	110
CUBOX-568	copper pads	copper	metric	568
OBOX-392-SIL-M	o-ring set	silicone	metric	392

O-ring set; Application: air conditioning; NEO TOOLS



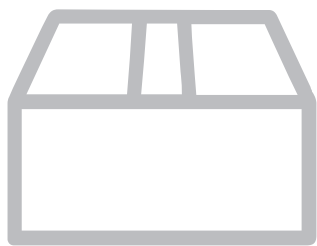
Manufacturer : NEO TOOLS

Type of mounting element : o-ring set

Gasket material : HNBR

Application : air conditioning

Symbol	Qty. in set [pcs.]
NEO-11-976	270



Enclosures

This is a broad product category including solutions for industrial applications, rack systems, universal installation boxes, as well as DIN rail enclosures and specialized models for non-standard installation conditions.

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Enclosures

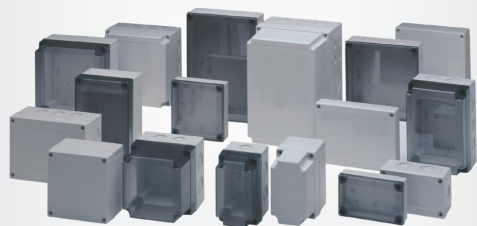
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Enclosures

Enclosures

Enclosure: multipurpose; FIBOX



Manufacturer : FIBOX
 Type of enclosure : multipurpose
 Body col. : grey
 Application : designed to mount electric and electronic aparatus
 Kit contents : base with mounting screws;
 cover with screws and plastic caps;
 gasket

IP rating : IP66, IP67
Information : **more products from this series available on www.tme.eu**
 Manufacturer series : MNX

Symbol	Enclos. mat.	Cover colour	X [mm]	Y [mm]	Z [mm]	Mechanical resistance
PC95/50LG	polycarbonate	grey	100	100	50	IK08
PC100/125HG	polycarbonate	grey	80	130	125	IK08
PCM100/125T	polycarbonate	transparent darkened	80	130	125	IK08
PCM125/125G	polycarbonate	grey	130	130	125	IK08
PCM125/75G	polycarbonate	grey	130	130	75	IK08
PC150/100HT	polycarbonate	grey	130	180	100	IK08
PC150/125HG	polycarbonate	grey	130	180	125	IK08
PC150/150HT	polycarbonate	transparent darkened	130	180	150	IK08
PC150/60HG	polycarbonate	grey	130	180	60	IK07
PC150/85XHG	polycarbonate	grey	130	180	85	IK08
PC175/60HG	polycarbonate	grey	180	180	60	IK08
PC175/75HG	polycarbonate	grey	180	180	75	IK08
PCM150/125T	polycarbonate	transparent darkened	130	180	125	IK08
PCM150/150T	polycarbonate	transparent darkened	130	180	150	IK08
PCM150/60G	polycarbonate	grey	130	180	60	IK08
PCM175/75G	polycarbonate	grey	180	180	75	IK08
PCM175/75T	polycarbonate	transparent darkened	180	180	75	IK08
PC200/175XHT	polycarbonate	transparent darkened	180	255	175	IK08
PCM200/150T	polycarbonate	transparent darkened	180	255	150	IK08
PCM200/175XT	polycarbonate	transparent darkened	180	255	175	IK08
ABS95/60HG	ABS	grey	100	100	60	IK07
ABS125/125HG	ABS	grey	130	130	125	IK07
ABS150/100HG	ABS	grey	130	180	100	IK07
ABS150/125HG	ABS	grey	130	180	125	IK07
ABS150/60HG	ABS	grey	130	180	60	IK07

Related articles:

Symbol	Product description
FP22046	Suspension for enclosure;polycarbonate;MNX
MIV125	Mounting plate;steel;W:98mm;L:98mm;Thk:1.5mm;Plating;zinc
MIV150	Mounting plate;steel;W:98mm;L:148mm;Thk:1.5mm;Plating;zinc
MIV175	Mounting plate;steel;W:148mm;L:148mm;Thk:1.5mm;Plating;zinc
MIV200	Mounting plate;steel;W:148mm;L:223mm;Thk:1.5mm;Plating;zinc
THA	Hinge;for enclosures;FIBOX

RITTAL enclosures, AE series, stainless steel



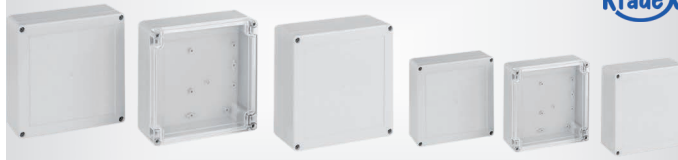
Manufacturer : RITTAL
 Type of enclosure : wall mounting
 Enclosure material : stainless steel
 Cover material : stainless steel
 Body col. : natural
 Cover colour : natural
 Mechanical impact resistance : IK08
 IP rating : IP66

Version : with mounting plate, with cam lock

Manufacturer series : AE

Symbol	Manufacturer's part number	X [mm]	Y [mm]	Z [mm]
RITTAL-1001600	1001.600	200	300	120
RITTAL-1005600	1005.600	300	380	210
RITTAL-1011600	1011.600	300	380	210
RITTAL-1004600	1004.600	380	300	155
RITTAL-1008600	1008.600	380	600	210
RITTAL-1015600	1015.600	400	500	210
RITTAL-1007600	1007.600	500	500	210
RITTAL-1013600	1013.600	500	500	300
RITTAL-1009600	1009.600	600	380	210
RITTAL-1010600	1010.600	600	600	210
RITTAL-1014600	1014.600	760	760	300

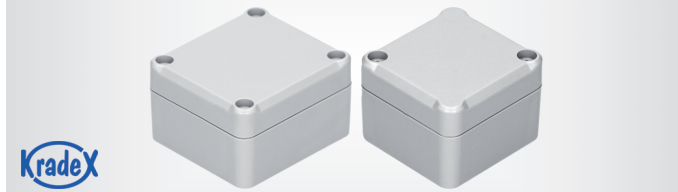
Kradex universal enclosures



Manufacturer : KRADEX
 Type of enclosure : multipurpose
 Manufacturer series : ZP
 Body col. : light grey
 IP rating : IP67
 Enclos. mat. : polycarbonate

Symbol	X [mm]	Y [mm]	Z [mm]	Symbol	X [mm]	Y [mm]	Z [mm]
ZP604030SJ-PC	40	60	30	ZP20010075SJP-PC	100	200	75
ZP604030SJ-PC	40	60	30	ZP10510575SJP-PC	105	105	75
ZP757545SJ-PC	75	75	45	ZP10510575SJP-PC	105	105	75
ZP757545SJP-PC	75	75	45	ZP10510590SJP-PC	105	105	90
ZP1257537SJ-PC	75	125	37	ZP10510590SJP-PC	105	105	90
ZP1257537SJP-PC	75	125	37	ZP12012075SJP-PC	120	120	75
ZP1907575SJ-PC	75	190	75	ZP12012075SJP-PC	120	120	75
ZP1907575SJP-PC	75	190	75	ZP18012090SJP-PC	120	180	90
ZP1608060SJ-PC	80	160	60	ZP1608060SJP-PC	120	240	75
ZP1608060SJP-PC	80	160	60	ZP24012075SJP-PC	120	240	75
ZP909060SJ-PC	90	90	60	ZP21014060SJP-PC	140	210	60
ZP909060SJP-PC	90	90	60	ZP21014060SJP-PC	140	210	60
ZP909075SJ-PC	90	90	75	ZP21014075SJP-PC	140	210	75
ZP909075SJP-PC	90	90	75	ZP21014075SJP-PC	140	210	75
ZP15010060SJ-PC	100	150	60	ZP24019060SJP-PC	190	240	60
ZP15010060SJP-PC	100	150	60	ZP24019060SJP-PC	190	240	60
ZP15010075SJ-PC	100	150	75	ZP240190105SJP-PC	190	240	105
ZP15010075SJP-PC	100	150	75	ZP240190105SJP-PC	190	240	105
ZP20010075SJ-PC	100	200	75				

Enclosure: multipurpose; with brass bushing; KRADEX



Manufacturer : KRADEX
 Type of enclosure : multipurpose
 Version : with brass bushing

Symbol	Body col.	Enclos. mat.	X [mm]	Y [mm]	Z [mm]
Z117JH-TM-ABS	grey	ABS	57	63	37
Z117JS-IP67-TM-ABS	grey	ABS	57	63	37
Z56JH-TM-ABS	grey	ABS	64	88	41
Z56JH-TM-PS	grey	polystyrene	64	88	41
Z56JS-IP67-TM-ABS	grey	ABS	64	88	41
Z54JPH-TM-ABS	grey	ABS	74	89	41
Z57JH-TM-ABS	grey	ABS	78	118	54
Z57JS-IP67-TM-ABS	grey	ABS	78	118	54
Z111JH-TM-PS	grey	polystyrene	80	82	55
Z58JH-TM-PS	grey	polystyrene	82	158	54
Z58JPH-TM-ABS	grey	ABS	82	158	54
Z59JH-TM-PS	grey	polystyrene	115	125	58
Z59JS-IP67-TM-ABS	grey	ABS	115	125	58
Z74JPH-TM-ABS	grey	ABS	126	176	55
Z90JH-TM-PS	grey	polystyrene	174	224	80
Z90JS-IP67-TM-ABS	grey	ABS	174	224	80
Z95JH-TM-PS	grey	polystyrene	190	280	95
Z95JS-IP67-TM-ABS	grey	ABS	190	280	95

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Enclosure: multipurpose; with brass bushing; KRADEX (cont.)

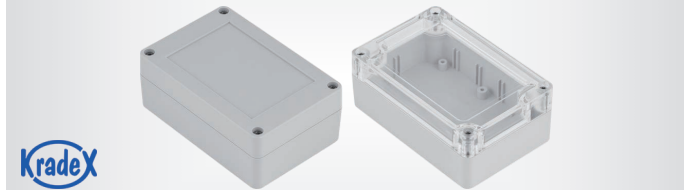
IP rating:

- IP65 (Z117JH-TM-ABS, Z111JH-TM-PS, Z56JH-TM-ABS, Z56JH-TM-PS, Z54JPH-TM-ABS, Z57JH-TM-ABS, Z58JH-TM-PS, Z58JPH-TM-ABS, Z59JH-TM-PS, Z74JPH-TM-ABS, Z90JH-TM-PS, Z95JH-TM-PS)
- IP67 (Z117JS-IP67-TM-ABS, Z5xJS-IP67-TM-ABS, Z90JS-IP67-TM-ABS, Z95JS-IP67-TM-ABS)

Cover colour:

- grey (Z11xxxS, Z56JxxxS, Z57JH-TM-ABS, Z57JS-IP67-TM-ABS, Z58JH-TM-PS, Z59JH-TM-PS, Z59JS-IP67-TM-ABS, Z9xxxS)
- transparent (Z54JPH-TM-ABS, Z58JPH-TM-ABS, Z74JPH-TM-ABS)

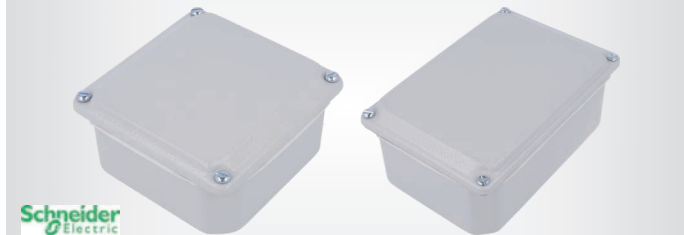
Kradex universal enclosures



Manufacturer : KRADEX
 Type of enclosure : multipurpose
 Version : with brass bushing
 Colour : grey
 X : 70mm
 Y : 105mm
 Z : 40mm

Symbol	Cover colour	Enclos. mat.	Cover material	IP rating
Z128JH-TM-ABS	grey	ABS	ABS	-
Z128JH-TM-PC	grey	polycarbonate	polycarbonate	-
Z128JPH-TM-ABS-PC	transparent	ABS	polycarbonate	-
Z128SJP-TM-ABS-PC	transparent	ABS	polycarbonate	IP67
Z128SJP-TM-PC	transparent	polycarbonate	polycarbonate	IP67
Z128SJ-TM-ABS	grey	ABS	ABS	IP67
Z128SJ-TM-PC	grey	polycarbonate	polycarbonate	IP67

Universal enclosures SCHNEIDER ELECTRIC



Manufacturer : SCHNEIDER ELECTRIC
 Type of enclosure : multipurpose
 Body col. : grey
 Enclosure material : steel
 Mechanical impact resistance : IK07
 Cover colour : grey
 IP rating : IP55

Symbol	X	Y	Z
	[mm]	[mm]	[mm]
NSYDBN88	85	85	49
NSYDBN1010	105	105	49
NSYDBN1510	105	155	61
NSYDBN2015	156	206	83

Enclosure: multipurpose; aluminium; GAINTA

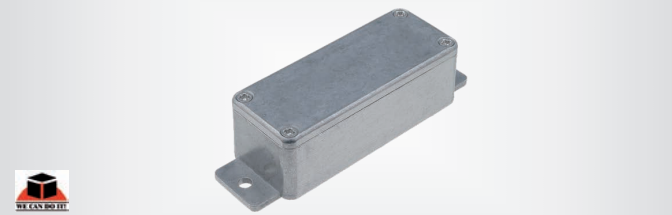


Manufacturer : GAINTA
 Type of enclosure : multipurpose
 Enclosure material : aluminium

Symbol	IP rating	X	Y	Z	Body col.
		[mm]	[mm]	[mm]	
HQ001S	IP67	96	96	45	natural
HQ003S	IP67	96	96	67	natural
HQ005S	IP67	96	192	45	natural
HQ007S	IP67	96	192	67	natural
HQ009S	IP67	173	274	66	natural
HQ011S	IP67	173	274	100	natural
HQ013S	IP67	100	150	50	natural
HQ015S	IP67	100	150	75	natural

Symbol	IP rating	X	Y	Z	Body col.
		[mm]	[mm]	[mm]	
HQ016S	IP67	150	200	28	natural
HQ017S	IP67	150	200	50	natural
HQ019S	IP67	150	200	75	natural
HQ021S	IP67	112	152	30	natural

Gainta enclosures with fixation



Manufacturer : GAINTA
 Type of enclosure : multipurpose
 Version : with fixing lugs
 Enclosure material : aluminium
 Body col. : natural
 Kit contents : gasket;
 screw x4

IP rating : IP66

Symbol	X	Y	Z
	[mm]	[mm]	[mm]
ALU-BS11MF	146	222	55
ALU-BS13MF	64	114	30
ALU-BS15MF	64	114	55
ALU-BS37MF	35	89	30
ALU-BS23MF	100	120	35
ALU-BS25MF	89	114	55
ALU-BS27MF	121	171	55
ALU-BS29MF	100	140	75
ALU-BS33MF	127	165	75
ALU-BS39MF	121	171	106

Aluminum enclosures Hammond series 1590



Manufacturer : HAMMOND
 Type of enclosure : multipurpose
 Enclosure material : aluminium
 IP rating : IP54
 Manufacturer series : 1590

Symbol	Colour	X	Y	Z
		[mm]	[mm]	[mm]
HM-1590G2CB	cobalt blue	50	100	31
HM-1590G2LG	light grey	50	100	31
HM-1590G2OR	orange	50	100	31
HM-1590G2YL	yellow	50	100	31
HM-1590BLG	light grey	60	112	31
HM-1590BPR	purple	60	112	31
HM-1590BYL	yellow	60	112	31
HM-1590B2OR	orange	60	112	37
HM-1590B2YL	yellow	60	112	37
HM-1590B2LG	light grey	60	112	38
HM-1590BSCB	cobalt blue	60	112	42
HM-1590BSLG	light grey	60	112	42
HM-1590BSPR	purple	60	112	42
HM-1590BSYL	yellow	60	112	42
HM-1590B3BK	black	77	116	38
HM-1590B3GR	green	77	116	38
HM-1590B3OR	orange	77	116	38
HM-1590B3PR	purple	77	116	38
HM-1590B3RD	red	77	116	38
HM-1590B3YL	yellow	77	116	38
HM-1590BBGR	green	94	119	34
HM-1590BBPR	purple	94	119	34
HM-1590BBSGR	green	94	119	42
HM-1590BBSLG	light grey	94	119	42

Enclosures

Hammond Octagon & Trapezoid enclosures



Manufacturer : HAMMOND
 Type of enclosure : multipurpose
 Enclosure material : aluminium
 IP rating : IP54
 Manufacturer series : 1590

Symbol	Body col.	X [mm]	Y [mm]	Z [mm]	Shape
HM-1590STPCCB	cobalt blue	133	133	39	octagon
HM-1590STPCYL	yellow	133	133	39	octagon
HM-1590TRPBOR	orange	79	112	39	trapezoid
HM-1590TRPBGR	green	79	112	39	trapezoid

Hammond enclosures, 1591 series



Manufacturer : HAMMOND
 Type of enclosure : multipurpose
 Enclosure material : ABS
 IP rating : IP54
 Flammability rating : UL94V-0
 Version : with fixing lugs, PCB is fastened in guides
Information : more products from this series available on www.tme.eu
 Manufacturer series : 1591

Symbol	Manufacturer's part number	Body col.	X [mm]	Y [mm]	Z [mm]
HM-1591BFLGY	1591BFLGY	grey	62	112	31
HM-1591CFLGY	1591CFLGY	grey	65	120	40
HM-1591DFLGY	1591DFLGY	grey	80	150	50
HM-1591EFLGY	1591EFLGY	grey	110	191	61
HM-1591GFLGY	1591GFLGY	grey	94	121	34
HM-1591MFLGY	1591MFLGY	grey	56	85	25
HM-1591SFLGY	1591SFLGY	grey	82	110	44
HM-1591VFLGY	1591VFLGY	grey	120	120	94

Hammond enclosures, 1553 series



Manufacturer : HAMMOND
 Type of enclosure : multipurpose
 Enclos. mat. : ABS
Information : more products from this series available on www.tme.eu
 Manufacturer series : 1553

Symbol	X [mm]	Y [mm]	Z [mm]	Colour
HM-1553AABK	50	75	17	dark grey
HM-1553BGY	79	117	24	grey
HM-1553BBKBKBAT	79	117	24	black
HM-1553BRDBKBAT	79	117	24	red
HM-1553BYLBKBAT	79	117	24	yellow
HM-1553DYL BK	89	147	24	yellow

Description (HM-1553BxxBKBAT):
 — battery compartment

Enclosure: multipurpose; ABS; IP67; TAKACHI; Enclosure material



Manufacturer : TAKACHI
 Type of enclosure : multipurpose
 Enclosure material : ABS
 IP rating : IP67
 Manufacturer series : WH
Information : more products from this series available on www.tme.eu

Symbol	X [mm]	Y [mm]	Z [mm]	Body col.	Side colour
TKC-WH125-28-N-WL	79	126	28	white	light grey
TKC-WH145-20-F4-BL	88	146	20	black	light grey
TKC-WH145-20-F4-WB	88	146	20	white	black
TKC-WH145-20-N-BN	88	146	20	black	blue
TKC-WH145-20-N-WB	88	146	20	white	black
TKC-WH145-20-N-WY	88	146	20	white	yellow
TKC-WH145-25-M2-BB	88	146	25	black	black
TKC-WH145-25-M2-BN	88	146	25	black	blue
TKC-WH145-25-M2-WB	88	146	25	white	black
TKC-WH145-25-M2-WN	88	146	25	white	blue
TKC-WH145-25-M2-WR	88	146	25	white	red
TKC-WH145-25-M3-BL	88	146	25	black	light grey
TKC-WH145-25-M3-WL	88	146	25	white	light grey
TKC-WH145-25-N-BN	88	146	25	black	blue
TKC-WH145-33-M3-BL	88	146	33	black	light grey
TKC-WH145-33-M3-BY	88	146	33	black	yellow
TKC-WH145-33-M3-WL	88	146	33	white	light grey
TKC-WH145-33-N-WN	88	146	33	white	blue
TKC-WH170-25-M4-BR	95	171	25	black	red

Symbol : TKC-WH145-20-F4-BL, TKC-WH145-20-F4-WB, TKC-WH145-25-Mxxx, TKC-WH145-33-M3-xx, TKC-WH170-25-M4-BR

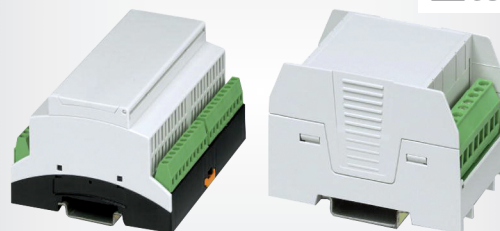
Ver. : with battery compartment

DEGSON ELECTRONICS enclosures for DIN rail mounting



Manufacturer : DEGSON ELECTRONICS
 Type of enclosure : for DIN rail mounting
 Body col. : green
Symbol : Number of terminals
 FMET-02P-14-05AH : 8
 FMET-03P-14-15AH : 12
 FMET-04P-14-15AH : 16
 FMET-06P-14-15AH : 24
 FMET-08P-14-15AH : 32

Enclosure: for DIN rail mounting; light grey; PHOENIX CONTACT



Manufacturer : PHOENIX CONTACT
 Type of enclosure : for DIN rail mounting
 Body col. : light grey
 Kit contents : connectors
Symbol : X [mm], Y [mm], Z [mm], Manufacturer series
 PH-2202525 : 107.6, 89.7, 62.2, BC 107.6
 PH-2202527 : 18.8, 113.3, 77, ME-IO 18.8
 PH-2202529 : 45, 75.4, 53.5, EH 45 FLAT
 PH-2202524 : 22.5, 99, 110, ME MAX 22.5
 PH-2202526 : 40, 180, 145, ME-PLC 40
 PH-2202528 : 120, 127.8, 40, UM-BASIC 108

MODULBOX enclosures for DIN rail mounting



Manufacturer : ITALTRONIC
 Type of enclosure : for DIN rail mounting
 Body col. : grey

cont. on the next page

MODULBOX enclosures for DIN rail mounting (cont.)

Enclosure material : PPO

Z : 53mm

Symbol	X [mm]	Y [mm]	Mount. holes pitch [mm]	Manufacturer series
1MH53/5	17.5	90	5.08	1M Modulbox One
1MH53/7.5	17.5	90	7.5	1M Modulbox One
2MH53/5	36	90	5.08	2M Modulbox One
3MH53/5	53	90	5.08	3M Modulbox One
4MH53/5	71	90	5.08	4M Modulbox One
4MH53/7.5	71	90	7.5	4M Modulbox One
5MH53/5	89	90	5.08	5M Modulbox One
6MDH53/5	106	90	5.08	6M Modulbox One
6MDH53/7.5	106	90	7.5	6M Modulbox One
9MDH53	159.5	90	5.08	9M Modulbox One
9MDH53/5	160	90	5.08	9M Modulbox One
9MDH53/7.5	160	90	7.5	9M Modulbox One

Enclosure: with panel; aluminium; FISCHER ELEKTRONIK



Manufacturer : FISCHER ELEKTRONIK

Type of enclosure : with panel

Enclosure material : aluminium

IP rating : IP54

Application : universal

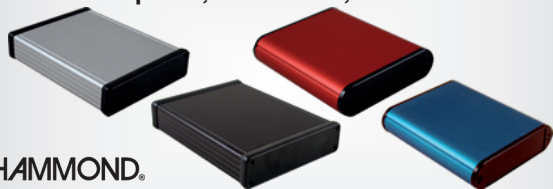
Information : more products from this series available on www.tme.eu

Frame colour : yellow

Manufacturer series : FR

Symbol	Colour	X [mm]	Y [mm]	Z [mm]	Symbol	Colour	X [mm]	Y [mm]	Z [mm]
FR-55-25-50-ME	grey	63.6	50	33	FR-80-42-160-ME	grey	91	160	53.5
FR-94-32-50-ME	grey	102.9	50	40	FR-105-52-160-ME	grey	116	160	63.5
FR-55-16-100-ME	grey	63.6	100	24	FR-120-42-160-ME	grey	131	160	53.5
FR-55-25-100-SA	black	63.6	100	33	FR-120-42-160-SA	black	131	160	53.5
FR-55-35-100-ME	grey	63.6	100	43	FR-55-35-200-ME	grey	63.6	200	43
FR-80-42-100-ME	grey	91	100	53.5	FR-120-42-200-ME	grey	131	200	53.5
FR-120-42-100-ME	grey	131	100	53.5	FR-105-52-220-ME	grey	116	220	63.5
FR-94-32-120-ME	grey	102.9	120	40					

Enclosure: with panel; aluminium; HAMMOND



Manufacturer : HAMMOND

Type of enclosure : with panel

Enclosure material : aluminium

Information : more products from this series available on www.tme.eu

Panel colour : black

Manufacturer series : 1455

Symbol	Colour	X [mm]	Y [mm]	Z [mm]	Symbol	Colour	X [mm]	Y [mm]	Z [mm]
HM-1455A1002	grey	70	100	12	HM-1455L1202BK	black	103	120	30
HM-1455A1002BK	black	70	100	12	HM-1455L1602	grey	103	160	30
HM-1455A1002BU	blue	70	100	12	HM-1455L1602BK	black	103	160	30
HM-1455A1202BK	black	70	120	12	HM-1455L2202	grey	103	220	30
HM-1455A1202RD	red	70	120	12	HM-1455L2202BK	black	103	220	30
HM-1455A802BK	black	70	80	12	HM-1455L801	grey	80	103	31
HM-1455B1002	grey	72	100	19	HM-1455L801BK	black	80	103	31
HM-1455B1002BK	black	72	100	19	HM-1455L801RD	red	80	103	31
HM-1455B1002BU	blue	72	100	19	HM-1455L802BK	black	80	103	31
HM-1455B1002RD	red	72	100	19	HM-1455N1602BK	black	103	160	53
HM-1455B1202BK	black	72	120	19	HM-1455N2202BK	black	103	220	53
HM-1455B1202RD	red	72	120	19	HM-1455P2202	grey	125	220	30
HM-1455B802	grey	71	80	19	HM-1455Q1602	grey	125	160	51
HM-1455B802BU	blue	71	80	19	HM-1455Q1602BK	black	125	160	51
HM-1455C1202	grey	54	120	23	HM-1455Q2202	grey	125	220	30
HM-1455C802BU	blue	54	80	23	HM-1455Q2202BK	black	125	220	52
HM-1455J1202	grey	78	120	27	HM-1455R2202	grey	165	220	30
HM-1455J1602	grey	78	120	27	HM-1455T1602	grey	165	160	51
HM-1455J1602BK	black	78	120	27	HM-1455T2202	grey	165	220	51
HM-1455K1202BK	black	78	120	43	HM-1455U1602	grey	160	191	66
HM-1455K1602	grey	78	160	43	HM-1455U2201BK	black	191	220	66
HM-1455K1602BK	black	78	160	43	HM-1455U2801	grey	191	280	66
HM-1455L1202	grey	103	120	30	HM-1455U2802BK	black	191	280	66

Enclosure: desktop; aluminium; HAMMOND



Manufacturer : HAMMOND

Type of enclosure : desktop

Enclos. mat. : aluminium

Closing system : screwed

Panel material : aluminium

Manufacturer series : 1456

Symbol	Colour	X [mm]	Y [mm]	Z [mm]
HM-1456CE3BKBU	blue	102	140	76
HM-1456CE3WHBU	blue	102	140	76
HM-1456CE3WHCWW	black	102	140	76
HM-1456FE1BKBU	blue	165	140	64
HM-1456FE3WHBU	blue	165	140	76
HM-1456FG4BKBU	blue	165	183	102
HM-1456FH3WHBU	blue	165	216	76
HM-1456KH3BKBU	blue	254	211	76
HM-1456PK4WHBU	grey	356	259	102
HM-1456PK4WHCWW	grey	356	259	102

Side colour:

— brown (HM-1456CE3WHCWW, HM-1456PK4WHCWW)

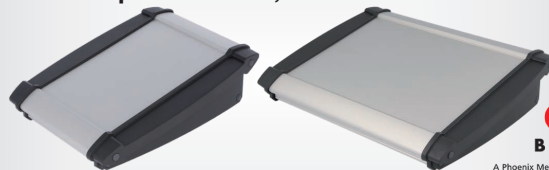
— blue (HM-1456PK4WHBU)

Cover colour:

— black (HM-1456xxxBKBU)

— light grey (HM-1456CE3WHBU, HM-1456CE3WHCWW, HM-1456FE3WHBU, HM-1456FH3WHBU, HM-1456PK4WHBU, HM-1456PK4WHCWW)

BOPLA desktop enclosures, ATPH series



Manufacturer : BOPLA

Type of enclosure : desktop

Cover material : ABS

IP rating : IP40

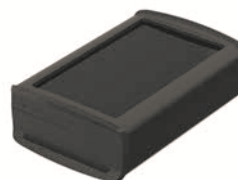
Enclosure material : aluminium

Body col. : natural

Manufacturer series : Alu-Topline

Symbol	Cover colour	Manufacturer's part number	X [mm]	Y [mm]	Z [mm]
ATPH-1850-100-MT	anthracite	ATPH1850-100 MT6	100	181	53
ATPH-1850-150-MT	anthracite	ATPH1850-150.MT6	150	181	53
ATPH-1850-200-MT	anthracite	ATPH1850-200.MT6	200	181	53
ATPH-1850-250-MT	anthracite	ATPH1850-250 MT1	250	181	53
ATPH-1865-200-MT	anthracite	ATPH1865-200 MT6	200	181	68
ATPH-1865-250-MT	anthracite	ATPH1865-250 MT6	250	181	68
ATPH-1865-300-MT	anthracite	ATPH1865-300 MT1	300	181	68

Enclosure: desktop; BoVersa; BOPLA



Manufacturer : BOPLA

Type of enclosure : desktop

Manufacturer series : BoVersa

Operating temperature : -25...110°C

IP rating : IP66, IP68

Enclosure material : polycarbonate

Information : more products from this series available on www.tme.eu

Symbol	Body col.	X [mm]	Y [mm]	Z [mm]	Cover colour
BOV-48322230.HMT1	white	80	125	42	transparent
BOV-48312233.HMT1	white	88	125	42	white

cont. on the next page

Enclosures

Enclosure: desktop; BoVersa; BOPLA (cont.)

Symbol	Body col.	X [mm]	Y [mm]	Z [mm]	Cover colour
BOV-48412255.HMT1	black	88	125	42	black
BOV-48432231.HMT1	white	88	125	42	white
BOV-48324330.HMT1	white	120	170	52	transparent
BOV-48334331.HMT1	white	120	170	52	semi-transparent
BOV-48334351.HMT1	black	120	170	52	semi-transparent
BOV-48414333.HMT1	white	120	170	52	white
BOV-48326450.HMT1	black	140	210	63	transparent
BOV-48336431.HMT1	white	140	210	63	semi-transparent
BOV-48336451.HMT1	black	140	210	63	semi-transparent
BOV-48416455.HMT1	black	140	210	63	black
BOV-48436431.HMT1	white	140	210	63	white
BOV-48338631.HMT1	white	185	275	73	semi-transparent
BOV-48428650.HMT1	black	185	275	73	black

Enclosure: with panel; ABS; TEKO; Panel material: ABS



Manufacturer : TEKO
 Enclosure material : ABS
 Panel material : ABS
 X : 216mm
 Y : 268mm
 Type of enclosure : with panel
 Manufacturer series : STRUMENTALIA

Symbol	Body col.	Z [mm]
761.5	light grey	95
761.9	black	95
762.5	light grey	108
762.9	black	108
765.5	light grey	63
765.9	black	63
766.5	light grey	76
766.9	black	76
767.5	light grey	89
767.9	black	89

Enclosure: wall mounting; polycarbonate; Body colour: grey; FIBOX



Type of enclosure : wall mounting
 Enclosure material : polycarbonate
 Body col. : grey
 Manufacturer : FIBOX
 Resistance to : to weather conditions, UV rays
 Operating temperature : -40...80°C
 Flammability rating : UL94-5VA
Information : *more products from this series available on www.tme.eu*

Symbol	IP rating	X [mm]	Y [mm]	Z [mm]	Symbol	IP rating	X [mm]	Y [mm]	Z [mm]
ARCA302015	IP66	200	300	150	ARCA604021	IP66	400	600	210
ARCA403015	IP66	300	400	150	ARCA705030	IP66	500	700	300
ARCA403021	IP66	300	400	210	ARCA806030	IP66	600	800	300
ARCA405021	IP66	500	400	210	ARCA203015	IP66	200	300	150
ARCA504021	IP66	400	500	210					

Enclosure: wall mounting; SCHNEIDER ELECTRIC



Manufacturer : SCHNEIDER ELECTRIC
 Type of enclosure : wall mounting
 IP rating : IP66
 Enclosure material : steel
 Manufacturer series : Spacial S3D

Symbol	Body col.	X [mm]	Y [mm]	Z [mm]
NSYS3D3215	light grey	200	300	150
NSYS3D32515	light grey	250	300	150
NSYS3D3420	light grey	300	400	200
NSYS3D4320P	light grey	300	400	200
NSYS3D5420	light grey	400	500	200
NSYS3D5420P	light grey	400	500	200
NSYS3D5425	light grey	400	500	250
NSYS3D5520	light grey	500	500	200
NSYS3D5525	light grey	500	500	250
NSYS3D6420P	light grey	400	600	200
NSYS3D6625P	light grey	600	600	250
NSYS3D6630	light grey	600	600	300
NSYS3D3420T	light grey	300	400	200
NSYS3D4320T	light grey	300	400	200
NSYS3D4620T	light grey	400	600	200
NSYS3D5425T	light grey	400	500	250
NSYS3D5520T	light grey	500	500	200
NSYS3D6425T	light grey	400	600	250
NSYS3D6830T	light grey	600	800	300

Kit contents (NSYS3DxxxP):

— mounting plate

Mechanical impact resistance:

— IK10 (NSYS3D3215, NSYS3D32515, NSYS3D3420, NSYS3D4320P, NSYS3D5420, NSYS3D5420P, NSYS3D5425, NSYS3D5520, NSYS3D5525, NSYS3D6420P, NSYS3D6625P, NSYS3D6630)

— IK08 (NSYS3DxxxT)

Enclosure: wall mounting; BOPLA; Enclosure material: polyester



Manufacturer : BOPLA
 Type of enclosure : wall mounting
 Enclosure material : polyester
 Ver. : with cam lock
 IP rating : IP65
 Body col. : grey
 Manufacturer series : Polysafe

Information : *more products from this series available on www.tme.eu*

Symbol	Cover colour	Z [mm]	X [mm]	Y [mm]
PS321-7035	grey	140	250	300
PS321T-7035	transparent	140	250	300
PS432	grey	200	300	400
PS432T-7035	transparent	200	300	400
PS442T-7035	transparent	200	400	400
PS542T-7035	transparent	200	400	400
PS642T-7035	transparent	230	400	400
PS832	grey	230	300	300
PS863-7035	grey	300	600	800
PS863T-7035	transparent	300	600	800

Rack cabinet; hanging; 19"; LANBERG



Manufacturer : LANBERG
 Type of enclosure : rack cabinet
 Standard : 19"
 Ver. : hanging
 Body col. : black
 Z : 450mm
 X : 600mm

Information : more products from this series available on www.tme.eu

Symbol Height
WF01-6404-10B 4U
WF01-6406-10B 6U

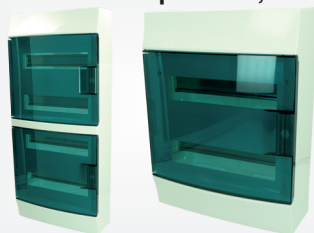
Rack cabinet; hanging; 19"; LANBERG



Manufacturer : LANBERG
 Type of enclosure : rack cabinet
 Standard : 19"
 Ver. : hanging
 Body col. : grey
 Z : 450mm
 X : 600mm

Symbol Height
WF01-6404-10S 4U
WF01-6406-10S 6U
WF01-6409-10S 9U

Enclosure: for modular components; ABB



Manufacturer : ABB
 Type of enclosure : for modular components
 Application : DIN rail modules; overcurrent breaker; RCD breaker
 Body col. : grey
 Protection class : II
 IP rating : IP41
 Cover colour : transparent darkened
 Mounting : wall mount, for wall mounting
 Kit contents : screw terminals N/PE
 Manufacturer series : MISTRAL41W

Symbol	Number of modules	Number of rows
1SPE007717F0421	12	1
1SPE007717F0521	24	2
1SPE007717F0621	36	3
1SPE007717F0721	48	4
1SPE007717F0821	18	1
1SPE007717F0921	36	2

Enclosure: for remote controller; control cassette; SCHNEIDER ELECTRIC



Manufacturer : SCHNEIDER ELECTRIC

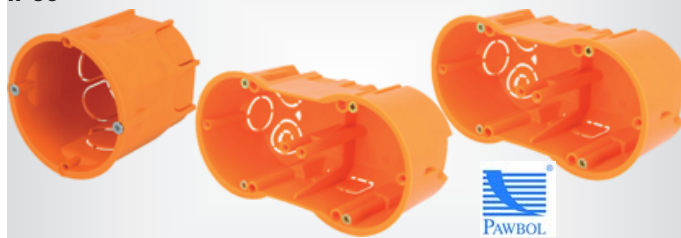
Type of enclosure : for remote controller
 Application : control cassette
 Trade name : punched enclosure
 Operating temperature : -25...70°C
 Switch standard : 22mm

Symbol	Colour	Number of holes	X [mm]	Y [mm]	Z [mm]
XALD01	light grey	1	68	68	53
XALD02	light grey	2	68	74	53
XALD03	light grey	3	68	104	53
XALD04	light grey	4	68	128	53
XALD05	light grey	5	68	158	53
XALG01	black	1	72	90	65
XALG02	black	2	72	135	65
XALG03	black	3	72	180	65
XALG04	black	4	72	180	65
XALG05	black	5	72	224	65
XALK01	light grey	1	68	68	53
XALK02	light grey	2	68	106	53
XALK01H29	light grey	1	68	68	53

IP rating:

- IP65 (XALK01, XALK02)
- IP66 (XALD0x, XALG0x, XALK01H29)
- IP67 (XALK01H29)
- IP69K (XALG0x, XALK01H29)

Junction box; polypropylene PP; plaster embedded; IP30



Manufacturer : PAWBOL
 Type of enclosure : junction box
 Mounting : plaster embedded
 IP rating : IP30

Enclosure material : polypropylene PP

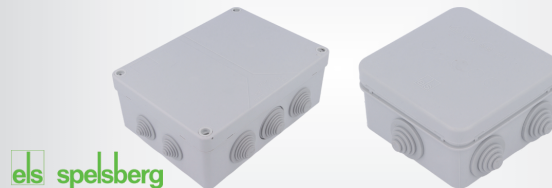
Information : more products from this series available on www.tme.eu

Symbol	Colour	Number of sockets	Ø [mm]	X [mm]	Y [mm]	Z [mm]
PW-A.0001LDP	orange	1	60	-	-	62
PW-A.0002P	orange	1	60	-	-	40
PW-A.0006LP	orange	1	60	-	-	62
PW-A.0043WP	orange	3	-	60	204	46
PW-A.0049WP	orange	4	-	60	272	46
PW-A.0049WPG	orange	4	-	60	272	60

Related articles:

Symbol Product description
PW-A.0054 Cover;81mm;polypropylene PP;white

Enclosure: junction box; polypropylene PP; SPELSBERG



Manufacturer : SPELSBERG
 Type of enclosure : junction box
 Body col. : grey
 Cover colour : grey
 Version : with membrane cable glands
 IP rating : IP55
 Mounting : wall mount
 Enclosure material : polypropylene PP
 Operating temperature : -25...40°C

Symbol	Description	X [mm]	Y [mm]	Z [mm]
HP70-L	3 x gland	75	75	42
HP80-L	7 x gland	85	85	42
HP90-L	7 x gland	90	90	45
HP100-L	7 x gland	113	113	58
HP150-L	10 x gland	119	164	77
HP190-L	10 x gland	149	199	77

Enclosures

Enclosure: junction box; grey; ABB



Manufacturer : ABB
Type of enclosure : junction box
Cover colour : grey
Mounting : wall mount
Version : with membrane cable glands
Body col. : grey
IP rating : IP55

Symbol	X	Y	Z
	[mm]	[mm]	[mm]
1SL0816A00	113	113	57
1SL0820A00	79	114	57
1SL0821A00	113	113	87
1SL0822A00	120	162	73
1SL0824A00	145	170	87
1SL0826A00	181	231	89
1SL0828A00	251	323	117
1SL0830A00	145	170	154
1SL0832A00	181	231	160
1SL0834A00	251	323	170

Hammond enclosures, 1594RFI series



Manufacturer : HAMMOND
Type of enclosure : shielding
Description : EMI/RFI shielding
Application : designed for electronic circuits sensitive to electromagnetic interferences

Body col. : black
IP rating : IP54
Enclosure material : ABS, stainless steel
Flammability rating : UL94V-0
Manufacturer series : 1594RFI

Symbol	X	Y	Z
	[mm]	[mm]	[mm]
HM-1594RFIABK	56	56	40
HM-1594RFIBBK	56	81	40
HM-1594RFICBK	66	104	45
HM-1594RFIDBK	66	130	55

Enclosure: junction box; polycarbonate; OBO BETTERMANN



Manufacturer : OBO BETTERMANN
Type of enclosure : junction box
Body col. : light grey
Cover colour : transparent
IP rating : IP67
Enclosure material : polycarbonate
Cover material : polycarbonate
Manufacturer series : X

Symbol	X	Y	Z	Symbol	X	Y	Z
	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]
OBO-2005054	95	95	72	OBO-2005066	151	191	126
OBO-2005058	114	114	60	OBO-2005070	191	241	126
OBO-2005062	151	167	87	OBO-2005074	202	286	126

Enclosure for Embedded Systems



Type of enclosure : for computer
Manufacturer : TEKO
X : 73mm
Y : 100mm

Symbol	Body col.	Z
		[mm]
TEK-BERRY3.0	semi-transparent	29
TEK-BERRY3.40	grey	29
TEK-BERRY3.9	black	29
TEK-BERRY4.0	semi-transparent	29
TEK-BERRY4.9	black	29
TEK-CAM3.0	semi-transparent	36
TEK-CAM3.40	grey	36
TEK-CAM3.9	black	36
TEK-CAM4.0	semi-transparent	36
TEK-CAM4.40	grey	36
TEK-CAM4.9	black	36

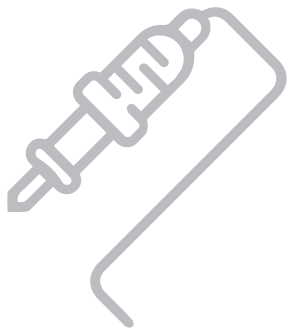
Symbol : **TEK-BERRY3.xx**
Application - series/manufacturer : Raspberry Pi 3
Symbol : **TEK-BERRY4.0, TEK-BERRY4.9, TEK-CAM4.xx**
Application - series/manufacturer : Raspberry Pi 4 B
Symbol : **TEK-CAM3.xx**
Application - series/manufacturer : Raspberry Pi

Bopla enclosures, PK series



Type of enclosure : junction box
Body col. : grey
IP rating : IP65
Enclosure material : polyamide
Gland : PG11
Version : with cable gland

Symbol	X	Y	Z	Description
	[mm]	[mm]	[mm]	
PK101-111	58	64	34	gland
PK101-211	58	64	34	2 x gland
PK102-211	64	98	34	2 x gland
PK102-411	64	98	34	4 x gland
PK102-SV-211	64	98	34	2 x gland
PK101-SV-211	58	64	34	2 x gland



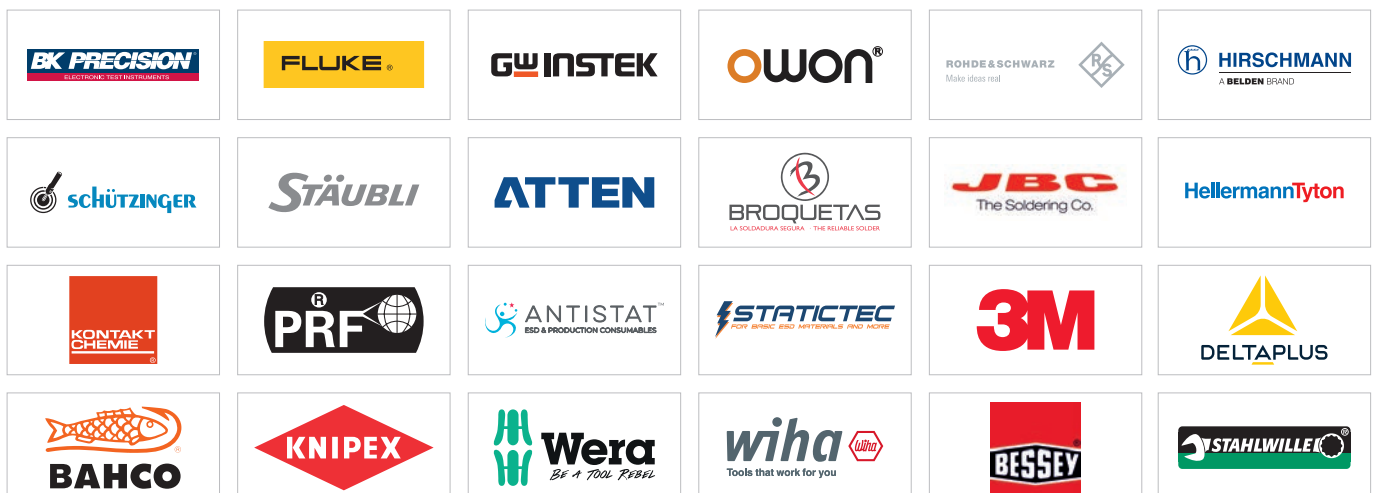
Workplace equipment

Workshop equipment includes not only hundreds of different types of meters and analyzers but also thousands of tools, chemical agents, and soldering accessories.

At TME you will find, among others:

- Multimeters, specialized meters and testers at attractive prices
- Thousands of accessories and spare parts
- Soldering equipment for professionals and hobbyists
- Industrial chemicals
- PPE, ESD, and Cleanroom materials
- General-purpose and specialized tools

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5

Workplace equipment

Measuring instruments and accessories

Digital multimeter; FLUKE; Fluke 170



Manufacturer : FLUKE
 Type of meter : digital multimeter
 Conform to the norm : CAT III 1000V, CAT IV 600V, EN 61010
 Bargraph : 33 segm. 40x/s
 Weight with battery : 420g
 Continuity test : acoustic indication
 Continuity test : <25Ω
 Dimensions (W x H x D) : 89x190x45mm
Symbol : **FLK-179**
 Temperature measuring range : -40...400°C

Symbol FLK-175 FLK-177 FLK-179

Kind of display used	FLK-175	FLK-177	FLK-179
- LCD	x	x	x
Display parameters			
- 3,75 digit (6000)	x	x	x
Battery/ rechargeable battery			
- battery 6LR61 9V x1	x	x	x
DC voltage measuring range [V]			
- 0.1m...600m/6/60/600/1k	x	x	x
AC voltage measuring range [V]			
- 0.1m...600m/6/60/600/1k	x	x	x
DC current measuring range [A]			
- 0.01m...60m/400m/6/10	x	x	x
AC current measuring range* [A]			
- 0.01m...60m/400m/6/10	x	x	x
Resistance measuring range [Ω]			
- 100m...600/6k/60k/600k/6M/50M	x	x	x
Capacitance measuring range [F]			
- 1n...1000n/10μ/100μ/9999μ	x	x	x
Frequency measuring range [Hz]			
- 10m...99.99/999.9/9.999k/99.99k	x	x	x
True RMS measurement			
- True RMS AC	x	x	x

* 1) indirect measurement

Features:

- dangerous voltage alarm (over 30V)
- auto and manual ranging
- HOLD function
- MIN/MAX/MEDIUM function
- impact resistant holster
- indicates incorrect connection of test leads
- smoothing mode that enables to filter quick changing input signals
- settable standby mode
- low battery indicator

Equipment:

- FLK-TL75 test leads
- FLK-80BK-A drop-like K-type probe (FLK-179)

Symbol Product description

FLK-175 Digital multimeter;LCD;3,75 digit (6000);True RMS AC

FLK-177 Digital multimeter;LCD;3,75 digit (6000);True RMS AC

FLK-179 Digital multimeter;LCD;3,75 digit (6000);True RMS AC

Digital multimeter; True RMS AC+DC; BRYMEN



Manufacturer : BRYMEN
 Type of meter : digital multimeter
 Display : LCD
 Illumination : yes
 Bargraph : 41 segm. 60x/s
 Sampling : 5x/s
 Interface : USB
 Pollution degree : 2

Battery/ rechargeable battery : battery 6LR61 9V x1
 Dimensions (W x H x D) : 103x208x64.5mm
 Conform to : CAT IV 1000V, EN 61010

Weight with battery : 635g
 Frequency measuring accuracy : ±(0.02%+4 digit)
 Capacitance measuring accuracy : ±(2.5%+ 3 digit)
 DC current measuring accuracy : ±(0.1% + 20 digit)

Symbol BM867 BM869

DC voltage measuring range [V]	BM867	BM869
- 0.01m...500m/5/50/500/1k	x	x
AC voltage measuring range [V]		
- 0.01m...500m/5/50/500/1k	x	x
DC current measuring range [A]		
- 0.01μ...500μ/5m/50m/500m/5/10	x	x
AC current measuring range* [A]		
- 0.01μ...500μ/5m/50m/500m/5/10	x	x
Resistance measuring range [Ω]		
- 10m...500/5k/50k/500k/5M/50M	x	x
Capacitance measuring range [F]		
- 10p...50n/500n/5μ/50μ/500μ/5m/25m	x	x
Frequency measuring range [kHz]		
- 10...200	x	x
Temperature measuring range [°C]		
- -50...1000		x
Continuity test		
- acoustic indication	x	x
Duty cycle [%]	0.1...99.99	0.1...99.99
4-20mA [%]	0...100	0...100
True RMS measurement		
- True RMS AC, True RMS AC+DC	x	x
Diode test	0.4mA @2V	0.4mA @2V
Continuity test [Ω]		
- 20...200	x	x

* 1) indirect measurement

Features:

- auto and manual ranging
- automatic power-off
- CREST: logging of extreme values MAX, MIN and MAX-MIN of voltage and current impulses > 0,8ms
- HOLD function
- AC VFD feature provides measurement of AC voltage and frequency at the same time (BM869)
- logging of MAX, MIN, AVG
- indicates incorrect connection of test leads

Standard equipment:

- test leads
- drop-like K-type probe with banana clips (BM869)
- holster

Symbol Product description

BM867 Digital multimeter;USB;LCD;Bargraph:41 segm.60x/s;5x/s

BM869 Digital multimeter;USB;LCD;Bargraph:41 segm.60x/s;5x/s

Digital multimeter; True RMS; UNI-T



Manufacturer : UNI-T
 Type of meter : digital multimeter
 Display : LCD
 Illumination : yes
 Display parameters : (6000)

Symbol UT89X

DC voltage measuring range [V]	UT89X
- 600m/6/60/600/1k	x
AC voltage measuring range [V]	
- 6/60/600/1k	x
DC current measuring range [A]	
- 60μ/60m/600m/20	x
AC current measuring range* [A]	
- 60m/600m/20	x
Resistance measuring range [Ω]	
- 600/6k/60k/600k/6M/60M	x
Capacitance measuring range [F]	
- 6n/60n/600n/6μ/60μ/600μ/6m/60m/100m	x
Frequency measuring range [MHz]	
- 10...10	x
Temperature measuring range [°C]	

cont. on the next page

Digital multimeter; True RMS; UNI-T (cont.)

Symbol	UT89X
-40...1000	x
* 1) indirect measurement	
True RMS measurement	: True RMS
Diode test	: 0...3V
Continuity test	: acoustic indication
Continuity test	: <30Ω
Dimensions (W x H x D)	: 89x189x53mm
Battery/ rechargeable battery	: battery R03 AAA 1,5V x4
Conform to the norm	: CAT II 1000V, CAT III 600V, EN 61010

- Features:
- automatic power-off
 - non-contact voltage detector
 - HOLD function
 - MIN/MAX function
 - REL function
 - low battery indicator

- Equipment:
- test leads
 - temperature probe

Symbol	Product description
UT89X	Digital multimeter;LCD;(6000);VDC:600mV,6V,60V,600V,1kV

- graphical display of measurement results
 - measure with Truevolt confidence (**34465A**)
- Equipment:
- calibration certificate
 - USB cable
 - mains cable
 - test leads
 - CD with documentation (**34465A**)
- | | | |
|---------------|----------------------|----------|
| Symbol | Kind of display used | Sampling |
| 34461A | LCD TFT 4,3" | 1000x/s |
| 34465A | LCD TFT 4,3" | 5000x/s |

Benchtop multimeter; 6,5 digit (2000000); KEYSIGHT



Manufacturer	: KEYSIGHT
Type of meter	: benchtop multimeter
U _{sup}	: 100...240V AC
True effective value measurement	: True RMS AC
Diode test	: 5V
Continuity test	: acoustic indication
Connectors for the country	: Europe
Display parameters	: 6,5 digit (2000000)
Capacitance measuring accuracy	: ±(0.4%+ 0.1% range)
U 400Hz	: 100...120V AC
Dimensions	: 261x104x303mm
Frequency measuring accuracy	: ±0.002%

Symbol	34461A	34465A
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DC voltage measuring range [V]		
- 100m/1/10/100/1k	x	x
AC voltage measuring range [V]		
- 100m/1/10/100/750	x	x
DC current measuring range [A]		
- 1μ/10μ		x
- 100μ/1m/10m/100m/1/3	x	x
- 10	x	
AC current measuring range* [A]		
- 100μ/1m/10m/100m/1	x	x
- 3/10	x	
Resistance measuring range [Ω]		
- 100/1k/10k/100k/1M/10M/100M	x	x
- 1G		x
Capacitance measuring range [F]		
- 1n/10n/100n/1μ/10μ/100μ	x	x
Frequency measuring range [kHz]		
- 3...300	x	x
Interface		
- LAN; USB	x	x
AC current measuring accuracy [%]		
- ±(0.07 + 0.04 range)		x
- ±(0.1 + 0.04 range)	x	
DC current measuring accuracy [%]		
- ±(0.007 + 0.001 range)		x
- ±(0.01 + 0.004 range)	x	
AC voltage measuring accuracy [%]		
- ±(0.02 + 0.02 range)		x
- ±(0.04 + 0.02 range)	x	
DC voltage measuring accuracy [%]		
- ±(0.0015 + 0.0004 range)		x
- ±(0.002 + 0.0006 range)	x	
Resistance measuring accuracy [%]		
- ±(0.002+0.0005 range)	x	x

* 1) indirect measurement

- Features:
- autoranging
 - MIN/MAX/MEDIUM function

Meter: multifunction; digital, pincers type; FLUKE



FLUKE

Manufacturer	: FLUKE
Type of meter	: multifunction
Kind of meter	: digital, pincers type
Display	: LCD
Display parameters	: 3,5 digit
True RMS measurement	: True RMS
Max. dia. of measured cable	: 30mm
IP rating	: IP30
Battery/ rechargeable battery	: battery LR03 AAA 1,5V x2
Conform to the norm	: CAT III 600V, EN 61010

Dimensions	: 207x75x34mm
AC current measuring accuracy	: ±(2% + 5 digit)
AC voltage measuring accuracy	: ±(1.5% + 5 digit)
DC voltage measuring accuracy	: ±(1% + 5 digit)
Resistance measuring accuracy	: ±(1%+5 digit)

Illumination (FLK-325):

- yes
- Capacitance measuring accuracy (FLK-325):
- ±(1%+ 4 digit)
- DC current measuring accuracy (FLK-325):
- ±(2% + 5 digit)

Symbol	FLK-323	FLK-325
I DC range [A]		
- 10m...40/400		x
I AC range* [A]		
- 10m...40/400		x
- 100m...400	x	
R range [Ω]		
- 100m...400/4k	x	x
- 40k		x
C range [μF]		
- 0.1...100/1000		x
f range [Hz]		
- 5...500		x
Continuity test [Ω]		
- <30		x
- <70	x	
Continuity test		
- acoustic indication	x	x
Weight with battery [g]	265	283

* 1) indirect measurement

Measuring instrument features:

- automatic power-off
- ergonomic body shape enables one-hand operation
- HOLD function
- low battery indicator

Standard equipment:

- case
- test leads

Symbol	Product description
FLK-323	Meter:multifunction;digital,pincers type;LCD;3,5 digit;IP30
FLK-325	Meter:multifunction;digital,pincers type;Øcable:30mm;LCD

Meter: multifunction; digital, pincers type; UNI-T



Manufacturer : UNI-T
Type of meter : multifunction
Kind of meter : digital, pincers type
Kind of display used : LCD
Max. dia. of measured cable : 28mm
True RMS measurement : True RMS
Duty cycle : 0.1...99.9%
Dimensions : 215x63x36mm
Weight with battery : 235g
Battery/ rechargeable battery : battery R03 AAA 1,5V x2
Conform to the norm : CAT II 600V,
 CAT III 300V,
 EN 61010

AC current measuring accuracy : ±(2.5% + 5 digit)
 DC current measuring accuracy : ±(2.5% + 5 digit)
 AC voltage measuring accuracy : ±(0.8% + 5 digit)
 DC voltage measuring accuracy : ±(0.5% + 2 digit)
 Resistance measuring accuracy : ±(0.8%+2 digit)

Symbol	UT203+	UT204+
Display parameters		
- (4000)	x	
- (6000)		x
DC voltage measuring range [V]		
- 400m/4/40/400	x	
- 600m/6/60		x
- 600	x	x
AC voltage measuring range [V]		
- 4/40/400	x	
- 6/60		x
- 600	x	x
DC current measuring range [A]		
- 40/400	x	
- 60/600		x
AC current measuring range* [A]		
- 40/400	x	
- 60/600		x
Resistance measuring range [Ω]		
- 400/4k/40k/400k/40M	x	
- 600/6k/60k/600k/6M/60M		x
Frequency measuring range [MHz]		
- 10...10	x	x
Continuity test		
- acoustic indication	x	x
Test		
- diodes	x	x
Pollution degree		
	2	2

* 1) indirect measurement

Measuring instrument features:

- autoranging
- automatic power-off
- HOLD function
- REL function
- overflow indication
- low battery indicator
- polarization indicator

Standard equipment:

- case
- test leads
- thermocouple (UT204+)

Symbol Product description
UT203+ Meter:multifunction;digital,pincers type;Øcable:28mm;LCD
UT204+ Meter:multifunction;digital,pincers type;Øcable:28mm;LCD

Meter: insulation resistance; FLUKE



Type of meter : insulation resistance
Kind of display used : LCD
Illumination : yes
DC voltage measuring range : 100mV...600V
AC voltage measuring range : 100mV...600V
Bandwidth for AC voltage measurements : 50...400Hz

Resistance measuring range : 10mΩ...20Ω/200Ω/2kΩ/20kΩ

Symbol	FLK-1503	FLK-1507
Test voltage [V DC]		
- 50		x
- 100		x
- 250		x
- 500	x	x
- 1k	x	x
Cap. disch. time [s]	<0.5	<0.5
Autodischarg. cap. [μF]	max. 1	max. 1
Insulation resistance measuring ranges [Ω]		
- 0.01M...20M	x	x
- 50M		x
- 100M		x
- 200M	x	x
- 500M	x	x
- 2000M	x	x
- 10G		x
Open circuit test voltage [V]	4...8	4...8
Continuity test	: acoustic indication	
IP rating	: IP40	
Body dimensions	: 203x100x50mm	
Battery/ rechargeable battery	: battery LR6 AA 1,5V x4	
Conform to the norm	: CAT IV 600V, EN 61010	

Features:

- automatic power-off
- wide test voltages selection (**FLK-1507**)
- automatic calculation of polarization index (**FLK-1507**)
- automatic discharge of capacitance charge function
- automatic quotient of dielectric absorption function (**FLK-1507**)
- comparison function for fast realisation of repeated tests (**FLK-1507**)
- insulation test stop function in case of detection of voltage over 30V
- pushbutton-controlled test probe

Equipment:

- crocodile clips
- test probe FLK-TP165X
- FLK-TP74 lamel tip test probes
- FLK-TL224 silicone test leads set

Symbol Product description

FLK-1503 Meter:insulation resistance;LCD;VAC:100mV÷600V;50÷400Hz;IP40

FLK-1507 Meter:insulation resistance;LCD;VAC:100mV÷600V;50÷400Hz;IP40

Meter: network parameters; LUMEL



Manufacturer : LUMEL
Type of meter : network parameters
Mounting : on panel, for DIN rail mounting (optional)
Kind of meter : digital, mounting
Display : LCD 3,5"
Dimensions (W x H x D) : 96x96x77mm
IP rating : IP65
Interface : RS485
Communications protocol : Modbus RTU

Symbol	ND20-221100M1	ND20-221200M1
Kind of network		
- three-phase	x	x
- 3-wire	x	x
- 4-wire	x	x
Input current [A]		
- 1	x	x
- 5	x	x
Kind of measurement		
- indirect with 1A current transformer	x	x
- indirect with 5A current transformer	x	x
U_{sup} [V DC]		
- 20...60		x
- 90...300	x	
U_{sup} [V AC]		
- 20...40		x
- 85...253	x	
U_{in} [V]		
- 57.7	x	x
- 69.3	x	x
- 230	x	x
Operating temperature [°C]		
- -25...55	x	x

cont. on the next page

Meter: network parameters; LUMEL (cont.)

Symbol	ND20-221100M1	ND20-221200M1
Manufacturer series	ND20	ND20
Manufacturer's part number	ND20 221100M1	ND20 221200M1
Output		
- analogue 0/4...20 mA	x	x
- relay	x	x
- OC type output	x	x
Symbol	Product description	
ND20-221100M1	Meter:network parameters;digital,mounting;LCD 3,5";ND20;IP65	
ND20-221200M1	Meter:network parameters;digital,mounting;LCD 3,5";ND20;IP65	

Meter: magnetic field; TENMARS



TENMARS

Manufacturer : TENMARS
 Type of meter : magnetic field
 Range of detectable magnetic field : 0...30000Gs, 0...3000mT
 Operating frequency : 40...500Hz
 Display : LCD
 Illumination : yes
 Power supply : battery LR03 AAA 1,5V x6
 Event memory:
 — 200
 Features:
 — AUTO HOLD
 — automatic power-off
 — MIN/MAX function
 — PEAK HOLD function
 — display zeroing function
 — polarity identification
 — measurement probe placed on an elastic wire

Symbol Product description
TM-197 Meter:magnetic field;Display:LCD;0÷30000Gs,0÷3000mT;40÷500Hz

Multimeter calibrator; FLUKE



FLUKE

Type of meter : multimeter calibrator
 Kind of display used : LCD
 Battery/ rechargeable battery : battery LR6 AA 1,5V x4
 Continuity test : acoustic indication
 DC voltage measuring range : 1...400mV/4V/40V/400V/1kV
 AC voltage measuring range : 0.1...400mV/4V/40V/400V/1kV
 DC current measuring range : 0.001...30mA/1A
 AC current measuring range* : 0.001mA...1A
 Frequency measuring range : 10mHz...199.99Hz/1999.9Hz/19.99kHz
 Resistance measuring range : 100mΩ...400Ω/4kΩ/40kΩ/4MΩ/40MΩ
 Diode test : 0.3mA @600mV
 Manufacturer : FLUKE
 Dimensions : 203x100x50mm
 Conform to the norm : CAT III 1000V,
 CAT IV 600V,
 EN 61010,
 EN 61243-3:2010

* 1) indirect measurement
 Interface (FLK-789): IrDA.
 Features:
 — automatic and manual setting of step function
 — HOLD function
 — MIN/MAX/MEAN/REL function
 — 0% or 100% of signal value (4mA, 20mA) source function (FLK-789)
 — simultaneous readout in mA and % of range
 — impact resistant holster (FLK-789)
 — source DC current / calibrate loop current, source/simulate
 — HART range with loop and built-in 250Ω resistor (FLK-789)
 — 24V loop supply voltage (FLK-789)
 Equipment:
 — crocodile clips FLK-AC72
 — test leads FLK-TL71 (FLK-787B)

— FLK-TL75 test leads (FLK-789)

Symbol Product description
FLK-787B Meter:multimeter calibrator;Diode test:0.3mA@600mV
FLK-789 Meter:multimeter calibrator;Diode test:0.3mA@600mV

Non-contact voltage detector; FLUKE



Manufacturer : FLUKE
 Type of tester : non-contact voltage detector
 Conform to the norm:
 — CAT IV 600V
 — EN 61010
 Additional functions:
 — white LED torch
 Features:
 — optical indication of detected live conductor (blue colour)
 — optical indication of detected supply source (red colour)

Symbol Detected voltage range
 [V AC]
FLK-LVD2 90...600

Non-contact voltage detector; AXIOMET



AXIOMET

Type of tester : non-contact voltage detector
 Detected voltage range : 5...1000V AC
 Frequency range of detectable voltage : 50...400Hz
 Additional functions : white LED torch
 Operating temperature : 0...40°C
 Dimensions : 154x32x28mm
 Power supply : battery LR03 AAA 1,5V x2
 Conform to the norm : CAT IV 1000V,
 EN 61010

Features:
 — contactless voltage detector
 — clip
 — optical (LED) and acoustic indication of detected voltage
 — low battery indicator

Symbol Product description
AX-T03 Tester:non-contact voltage detector;5÷1000VAC;50÷400Hz

Tester: electrical; FLUKE



FLUKE

Manufacturer : FLUKE
 Type of tester : electrical

Symbol	FLK-T90	FLK-T110	FLK-T130	FLK-T150
Display				
- LEDs	x	x	x	x
- LCD			x	x
Display parameters				
- 3,5 digit			x	x
DC voltage measuring range [V]				
- 6			x	x
- 12/24/50/120/230/400/690	x	x	x	x
AC voltage measuring range [V]				
- 6			x	x
- 12/24/50/120/230/400/690	x	x	x	x
V AC measur. bandwidth [Hz]				
- 0...400	x	x	x	x
Resistance measuring range [Ω]				
- 1...1999				x
Continuity test				
- acoustic indication, optical indication	x	x	x	x
IP rating				
- IP54	x			
- IP64		x	x	x
Additional functions:				
— illumination lamp				
Phase-to-phase volt. range for phase seq. ind.:				
— 12...690V AC (FLK-T90, FLK-T110)				

cont. on the next page

Tester: electrical; FLUKE (cont.)

— 6...690V AC (FLK-T130, FLK-T150)

Conform to the norm:

- CAT II 690V (FLK-T90)
- CAT III 600V (FLK-T90)
- CAT III 690V (FLK-T1x0)
- CAT IV 600V (FLK-T1x0)
- EN 61010

Battery/ rechargeable battery:

— battery LR03 AAA 1,5V x2

Body dimensions:

- 245x64x28mm (FLK-T90)
- 255x78x35mm (FLK-T1x0)

Features:

- HOLD function (FLK-T130, FLK-T150)
- polarity identification
- possibility to turning off a buzzer (FLK-T1x0)
- checks AC/DC voltage levels (12...690V) even at discharged batteries (FLK-T90, FLK-T110)
- checks AC/DC voltage levels (6...690V) even at discharged batteries (FLK-T130, FLK-T150)
- indicates phase sequence (FLK-T1x0)
- polarization indicator
- RCD triggering via a button (FLK-T1x0)

Symbol Product description

FLK-T90 Tester:electrical;LEDs;12÷690VAC;0÷400Hz;IP54;0Ω÷400kΩ

FLK-T110 Tester:electrical;LEDs;12÷690VAC;0÷400Hz;IP64;0Ω÷400kΩ

FLK-T130 Tester:electrical;LEDs,LCD;3,5 digit;6÷690VAC;0÷400Hz;IP64

FLK-T150 Tester:electrical;LEDs,LCD;3,5 digit;6÷690VAC;0÷400Hz;IP64

Tester: electrical; UNI-T



Manufacturer : UNI-T

Type of tester : electrical

Symbol	UT15B	UT15C	UT18C	UT18D
DC voltage measuring range [V]				
- 6				x
- 12/24/50/120/230/400/690	x	x	x	x
- 36	x			
AC voltage measuring range [V]				
- 6				x
- 12/24/50/120/230/400/690	x	x	x	x
Frequency measuring range [Hz]				
- 40...400			x	x
- 50...400	x			
Continuity test				
- acoustic indication, optical indication	x		x	x
IP rating				
- IP65	x		x	x
Battery/ rechargeable battery				
- battery R03 AAA 1,5V x2	x	x	x	x
Body dimensions [mm]				
- 272x85x31			x	x
- 275x51x30	x			
Conform to the norm				
- CAT III 690V, CAT IV 600V, EN 61010			x	x

Features:

- autoranging (UT15B, UT15C)
- buzzer (UT15C)
- HOLD function (UT18C, UT18D)
- polarity identification (UT18C, UT18D)
- single-pole voltage testing (UT18C)
- tester of phase order (UT15C)
- indicates phase sequence (UT18C, UT18D)
- low battery indicator (UT15B, UT18C, UT18D)
- overflow indicator (UT15B)

Symbol Display Illumination

UT15B LEDs, LCD -

UT15C LCD -

UT18C LEDs, LCD -

UT18D LCD yes

Tester: cable pairs identifiers; AXIOMET



Type of tester : cable pairs identifiers

Detection : place of cable failure

Transmitter dimensions : 145x35x25mm

Receiver dimensions : 238x43x26mm

Battery/ rechargeable battery : battery LR44 1,5V x1

Features:

- identifies a conductor in group of conductors by means of sending continuous, single of modulated signal
- identifies state of operating telephone line
- adjustable gain
- tests continuity of cable pairs and conductors
- detects tone signal in cables or wires (telephone lines)

Symbol Product description

TESTER-MS6812 Tester:cable pairs identifiers

Meter: appliance meter; HT INSTRUMENTS



Manufacturer : HT INSTRUMENTS

Type of meter : appliance meter

Continuity test : acoustic indication, optical indication

IP rating : IP40

Weight with battery : 1.2kg

Body dimensions : 225x165x75mm

Test voltage : 50V/100V/250V/500V/1kV

Insulation resistance measuring ranges : 0.01MΩ...2GΩ

Resolution : 320x240

Loop impedance measurement : 0...199.9Ω

Loop impedance measuring accuracy : ±(5% + 3 digit)

Earthing resistance measuring accuracy : ±(2% + 2 digit)

Power supply : rechargeable battery Ni-MH x6

Battery/ rechargeable battery : rechargeable battery Ni-MH AA 1,2V x6

Display : touch screen, colour, LCD TFT

Illumination : yes

Interface : USB; WiFi

Software : included, HTAnalysis App

Earthing resistance measuring range : 10mΩ...50kΩ

Conform to the norm : CAT IV 300V, EN 61557-1

RCD test : general purpose, AC, A, B-type RCDs

Measurement memory : 999

Equipment : calibration certificate;
USB cable;
neckstrap;
test leads (4pcs.);
stylus;
hard case;
power supply AC 230V;
4 crocodile clips

Symbol Product description

HTI-HV005036 Meter:appliance meter;touch screen,colour,LCD TFT;320x240

Tester: LAN wiring; UNI-T



Manufacturer : UNI-T

cont. on the next page

Tester: LAN wiring; UNI-T (cont.)

Type of tester : LAN wiring
 Display : LCD 2,8"
 Kind : RJ11;
 RJ45
 Detection : place of cable failure, reversed connection, discontinuities and short circuits in conductors
 Power supply : battery AAA 1,5V x4
 Features:
 — distance to Open / Short (TDR)
 — cable length measurement
 — connection map test: discontinuity, short circuit, incorrect connection
 — tests data outlet for POE presence
 Equipment:
 — case
 — RJ45/11 adapter
Symbol **UT685BKIT**
 Product description Tester:LAN wiring;LCD 2,8";RJ11,RJ45

Display : LCD
 Phase-to-phase volt. range for phase seq. ind. : 40...690V AC
 Phase-to-phase volt. range for phase seq. ind. : 40...600V AC
 Operating frequency : 15...400Hz
 IP rating : IP40
 Body dimensions : 70x130x32mm
 Power supply : from tested wiring system
 Conform to the norm : CAT III 600V,
 EN 61010

Features:
 — low battery indicator
 Equipment:
 — 3 crocodile clips
 — case
 — test leads (3pcs.)

Symbol Product description
PKT-P2530 Tester:phase sequence;LCD;40=600VAC;Freq:15+400Hz;IP40

Tester: LAN wiring; VDV II; TREND NETWORKS



Manufacturer : TREND NETWORKS
 Type of tester : LAN wiring
 Manufacturer series : VDV II
 Measured cable length : max. 600m
 Dimensions : 160x76x36mm
 Battery/ rechargeable battery : battery 6F22 9V x1
 Kind of connector : RJ11;
 RJ45
 Test:
 — wiring BNC
 — wiring RJ11
 — wiring RJ45
 Detection:
 — cable and wire continuity
 — place of cable failure (**TNET-R158008, TNET-R158005, TNET-R158006**)
 — discontinuities and short circuits in conductors
 Features:
 — distance to Open / Short (TDR) (**TNET-R158005, TNET-R158006**)
 — cable length measurement (**TNET-R158008, TNET-R158005, TNET-R158006**)
 — PoE validation (**TNET-R158006**)
 — connection map test: discontinuity, short circuit, incorrect connection, split pairs
 — tests data outlet for POE presence (**TNET-R158005, TNET-R158006**)
 — data transfer to AnyWARE Cloud
 Equipment (**TNET-R158008, TNET-R158005, TNET-R158006**):
 — BNC female to F-type male adapter x1
 — RCA female to F-type female adapter x1
 — RCA female to F-type male adapter x1
 — screened RJ45 to RJ45 cable 150mm x2
 — F-type plug to F-type plug cable 230mm x1
 — RJ11/12 to RJ11/12 cable 100mm x2
 — RJ45 to alligator clip cable 390mm x2 x2
 — case
 — F-81 barrel splice x1
 Supported formats (**TNET-R158006**):
 — PDF

Symbol	Manufacturer's part number	Display	Illumination
TNET-R158007	VDV II	LCD 2,7"	-
TNET-R158008	VDV II PLUS	LCD 2,9"	yes
TNET-R158005	VDV II PRO	LCD 2,9"	yes
TNET-R158006	POE PRO	LCD 2,9"	yes

Infrared thermometer; FLUKE



FLUKE

Manufacturer : FLUKE
 Type of meter : infrared thermometer
 Display : LCD
Symbol **FLK-62MAX** **FLK-62MAX+** **FLK-64MAX**
 Temp. (IR) [°C] -30...500 -30...650 -30...600

IP rating : IP54
 Battery/ rechargeable battery : battery LR6 AA 1,5V x1
 Body dim. : 175x85x75mm
 Resistance to : fall from 3m height
 Illumination : yes

Features:
 — automatic power-off (**FLK-64MAX**)
 — laser sight
 — long operating time up to 30 hours (**FLK-64MAX**)
 — MIN/MAX/DIF/AVG function
 — data logger function (**FLK-64MAX**)
 — white LED torch (**FLK-64MAX**)

Manufacturer's part number:
 — FLUKE-62 MAX (**FLK-62MAX**)
 — FLUKE-62 MAX + (**FLK-62MAX+**)
 — FLUKE-64 MAX (**FLK-64MAX**)

Symbol	Emissivity value	Response time [s]	Opt. resol.
FLK-62MAX	0,1...1	<0.5	10:1
FLK-62MAX+	0,1...1	<0.3	12:1
FLK-64MAX	0,1...1	<0.5	20:1

Infrared thermometer; UNI-T



UNI-T

Manufacturer : UNI-T
 Type of meter : infrared thermometer
 Display : LCD
 Manufacturer's part number : UT301C+
 Illumination : yes
 Non-contact temperature measuring range : -32...600°C
 Optical resolution : 12:1
 Emissivity value : 0,1...1
 Response time : <0.25s
 Battery/ rechargeable battery : battery 6F22 9V x1
 Dimensions : 160x74x48mm

Features:
 — automatic power-off
 — laser sight
 — HOLD function
 — MIN/MAX/AVG function
 — settable MIN/MAX alarm thresholds

Tester: phase sequence; PEAKTECH



PeakTech

Manufacturer : PEAKTECH
 Type of tester : phase sequence

cont. on the next page

Infrared thermometer; UNI-T (cont.)

— low battery indicator

Equipment:

— case

Symbol Product description

UT301C+ Infrared thermometer;LCD;-32~600°C;Accur.(IR):±1.5%,±1.5°C

Scale features : working position 90°

Mounting : on panel, for DIN rail mounting (optional)

Dimensions (W x H x D) : 96x96mm

Accuracy class : 1.5

Equipment:

— mounting holder x2

Symbol	I DC range [A]	Symbol	I DC range [A]
MA19-NA10700000000	0...10m	MA19-NAB0100000000	0...1
MA19-NA10800000000	0...15m	MA19-NAB0200000000	0...1.5
MA19-NA10900000000	0...20m	MA19-NAB0300000000	0...2.5
MA19-NA11000000000	0...25m	MA19-NAB0400000000	0...4
MA19-NA11100000000	0...40m	MA19-NAB0600000000	0...6
MA19-NA11200000000	0...50m	MA19-NAB0700000000	0...10
MA19-NA11300000000	0...60m	MA19-NAB0800000000	0...15
MA19-NA11400000000	0...100m	MA19-NAB0900000000	0...20
MA19-NA11500000000	0...150m	MA19-NAB1000000000	0...25
MA19-NA11600000000	0...250m	MA19-NAB1100000000	0...30
MA19-NA11700000000	0...400m	MA19-NAB1200000000	0...40
MA19-NA11800000000	0...500m	MA19-NAB1300000000	0...50
MA19-NA11900000000	0...600m	MA19-NAB1400000000	0...60
MA19-NA20100000000	0...1	MA19-NAB1600000000	0...100
MA19-NA20200000000	0...1.5	MA19-NAB1700000000	0...150
MA19-NA20300000000	0...2.5	MA19-NAB1800000000	0...200
MA19-NA20400000000	0...4	MA19-NAB1900000000	0...250
MA19-NA20500000000	0...5	MA19-NAB2000000000	0...300
MA19-NA20600000000	0...6	MA19-NAB2100000000	0...400
MA19-NA20700000000	0...10	MA19-NAB2200000000	0...500
MA19-NA20800000000	0...15	MA19-NAB2300000000	0...600
MA19-NA20900000000	0...20	MA19-NAB2400000000	0...800
MA19-NA21000000000	0...25	MA19-NAB5000000000	0...1k
MA19-NA90000000000	4m...20m		

Infrared thermometer; Optris



Manufacturer : Optris
 Type of meter : infrared thermometer
 Temp. : -50...1030°C
 Measurement wavelength : 8...14µm
 Thermal sensitivity (NETD) : <50mK
 Emissivity value : 0,1...1,1
 Opt. resol. : 15:1

IP rating : IP63
 Enclosure material : stainless steel
 Mounting : M12x1
 U_{sup} : 5...30V DC
 Output : analogue 0...5 V/ 0...10 V
 Response time for temperature measurement : 14ms

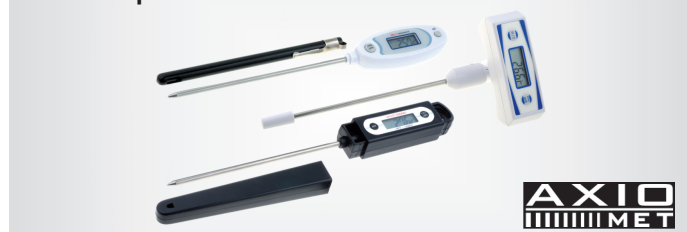
Features:
 — optical alarm when a limit value is exceeded
 — PEAK HOLD function

Equipment:
 — USB adapter (OPTCSLT15SFCB15K)
 — connection cable
 — IR connector (USB C)

Symbol	Temperature measurement accuracy	Temperature measurement accuracy
	[%]	[°C]
OPTCSLT15SFCB3K	±1.5	±1.5
OPTCSLT15SFCB15K	±1.5	±1.5

Symbol	Cable length [m]	Probe diameter [mm]	Probe length [mm]
OPTCSLT15SFCB3K	3	12	87
OPTCSLT15SFCB15K	15	12	87

Meter: temperature



Type of meter : temperature
 Sampling : 1x/s
 Kind of display used : LCD
 Kind of meter : digital
 Temperature measurement accuracy : ±1°C

Symbol	DM-9203	DM-9207A	DM-9231A
Probe length [mm]	133	133	130
Power supply			
- battery LR44 1,5V x1	x	x	x

Features:
 — automatic power-off
 — HOLD function
 — MIN/MAX function (DM-9203, DM-9231A)
 — protective cap for measuring probe
 — movable head with 180° adjustment angle (DM-9207A)
 — pointed probe made of stainless steel
 — waterproof enclosure (DM-9207A, DM-9231A)
 — low battery indicator

Symbol	Temp. range [°C]	Temperature measurement resolution [°C]
DM-9203	-50...150	0.1 @ 19.9...150, 1 @ -50...19.9
DM-9207A	-50...150	100m @ 19.9...300, 1 @ -50...19.9
DM-9231A	-50...300	100m @ 19.9...150, 1 @ -50...19.9

Voltmeter; digital; TDE INSTRUMENTS



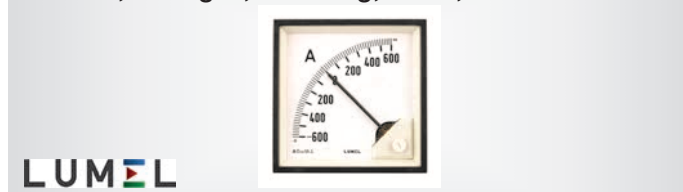
Manufacturer : TDE INSTRUMENTS
 Type of meter : voltmeter
 Kind of meter : digital, mounting
 Sampling : 3x/s
 Display : LCD
 Display parameters : 3,5 digit
 Disp. height 1 : 14mm
 Illumination : yes
 DC voltage measuring range : -200...200mV
 U_{sup} : 5V DC/9V DC
 Dimensions (W x H x D) : 72x36mm
 Operating temperature : 0...50°C
Symbol Backlight colour
DPM962-TG green
DPM962-TW white

Meter: temperature; TESTO



Manufacturer : TESTO
 Type of meter : temperature
 Display : LCD
 Illumination : yes

Ammeter; analogue, mounting; MA19; LUMEL



Manufacturer : LUMEL
 Type of meter : ammeter
 Kind of meter : analogue, mounting
 Manufacturer series : MA19
 Max. voltage : 600V
 IP rating : IP52
 Scale length : 95mm

cont. on the next page

Meter: temperature; TESTO (cont.)

Kind of meter : digital
 Manufacturer's part number : TESTO 925 0563 0925
 Temperature measuring range : -50...1000°C
 Kind of temperature sensor : thermocouple K
 Number of channels : 1
 Power supply : battery 6F22 9V x1
 Body dimensions : 182x64x40mm
 Weight with battery : 399g
Features:
 — acoustic indication of set MIN/MAX threshold values
 — HOLD function
 — single channel temperature measurement
Equipment:
 — manufacturer's calibration certificate
 — user's manual
 Battery/ rechargeable battery:
 — battery 6F22 9V x1
Symbol Product description
TESTO925 Meter:temperature,digital;LCD;-50÷1000°C;Ch:1;182x64x40mm

Field of observation : 50° horizontal x 38° vertical
 Resistance to : fall from 1m height
 Body dimensions : 89x127x25mm
 IP rating : IP54
 Software : Fluke Connect
 Battery/ rechargeable battery : rechargeable battery Li-Ion 3,7V x1
 Display resolution : 320x240
 Supported formats : IS2, JPG
 Temperature measurement accuracy : ±2%
 Temperature measurement accuracy : ±2°C
 Interface : WiFi
Features:
 — transfer measurement data wireless
 — AutoBlend function
 — IR-Fusion function to combine thermal and real images
 — picture-in-picture (PIP) function
 — compact design
 — radiometric measurements for detailed temperature analysis
 — multilanguage menu
Equipment:
 — USB cable
 — hand strap
 — case
Symbol Product description
FLK-PT1120 Infrared camera;LCD 3,5";120x90;-20÷150°C;Focus: focus free

Tachometer; PEAKTECH



PeakTech®
 Type of meter : tachometer
 Display : LCD
 Illumination : yes
 Manufacturer : PEAKTECH
 Measurement accuracy : 0.05%
 Display parameters : 5 digits
 Power supply : battery 6LR61 9V x1
 Related items : AX-TACHO-TAPE
Symbol **PKT-P2790** **PKT-P2795**
Measurement
 - rpm velocity (mechanical) x
 - rpm velocity (optical) x
Measuring range
 - 2...199999rpm x
 - 2...99999rpm x
Measuring resolution
 - 0,001rpm x
 - 0,1rpm x
Features:
 — HOLD function (**PKT-P2795**)
 — MIN/MAX function (**PKT-P2790**)
 — MIN/MAX/AVG function (**PKT-P2795**)
 — low battery indicator
Equipment:
 — adapter RPM (**PKT-P2795**)
 — user's manual
 — adhesive reflecting tape mark
 — case
 — surface speed test wheel (**PKT-P2795**)
Symbol Product description
PKT-P2790 Tachometer;LCD;5 digits;2÷99999rpm;0.05%;Resol:0,1rpm
PKT-P2795 Tachometer;LCD;5 digits;2÷199999rpm;0.05%;Resol:0,001rpm

Infrared camera; FLIR SYSTEMS AB



TELEDYNE FLIR
 Manufacturer : FLIR SYSTEMS AB
 Type of meter : infrared camera
 Interface : USB; WiFi
 Body dimensions : 244x95x140mm
 IP rating : IP54
 Software : included
 Resistance to : fall from 2m height
 Supported formats : JPEG
Symbol Camera resolution Temperature measuring range [°C]
FLIRE5PRO 160x120 -20...400
FLIRE6PRO 240x180 -20...550
FLIRE8PRO 320x240 -20...550
Symbol **FLIRE5PRO** **FLIRE6PRO** **FLIRE8PRO**
Display
 - touch screen x x x
 - LCD 3,5" x x x
 Field of observation [°] 33 x 25 33 x 25 33 x 25
 Weight with battery [g] 590 590 590
 Manufacturer series Ex PRO Ex PRO Ex PRO
 Display resolution 640x480 640x480 640x480
Features:
 — digital camera 5Mpx
 — automatic power-off
 — picture-in-picture (PIP) function
 — MSX function - sharpening of thermal image
 — date and time setting possibility
 — non-cooled matrix operating in focal plane
 — adjustable emissivity
 — built-in torch
 — robust structure
 — temperature markers (min, max)
 — FLIR Ignite Cloud connection
Equipment:
 — documentation
 — USB cable
 — hard case
 — battery charger/power supply
Connectors for the country:
 — Europe
 Battery/ rechargeable battery:
 — rechargeable battery Li-Ion 3,6V 2600mAh x1
Symbol Product description
FLIRE5PRO Infrared camera;touch screen,LCD 3,5";160x120;-20÷400°C;IP54
FLIRE6PRO Infrared camera;touch screen,LCD 3,5";240x180;-20÷550°C;IP54
FLIRE8PRO Infrared camera;touch screen,LCD 3,5";320x240;-20÷550°C;IP54

Infrared camera; FLUKE



FLUKE
 Manufacturer : FLUKE
 Type of meter : infrared camera
 Display : LCD 3,5"
 Touchpad : yes
 Opt. resol. : 130:1
 Temperature measuring range : -20...150°C
 Three-dimensional resolution : 7.6mrad
 Focusing : focus free

Infrared camera; UNI-T



Manufacturer	: UNI-T	
Type of meter	: infrared camera	
Refresh rate	: 9Hz	
Temperature measurement accuracy	: ±2%	
Temperature measurement accuracy	: ±2°C	
Symbol	UT1730E	UT1730V
Display		
- LCD TFT 3,5"	x	x
Interface		
- microSD	x	x
- USB	x	x
- WiFi	x	x
Equipment		
- user's manual	x	x
- USB cable	x	x
- microSD memory card	x	x
Power supply		
- rechargeable battery Li-Ion 3,6V 5000mAh x1	x	
- rechargeable battery Li-Ion 3,7V 5200mAh x1		x
Temperature measuring range [°C]		
- -40...400	x	x
Emissivity value		
- 0,01...1	x	
Body dimensions [mm]		
- 260x97x99		x
Field of observation [°]	56 x 42	56 x 42
Features		
- alarms breach of limit values		x
- automatic power-off	x	
- transfer measurement data wireless		x
- wide palette of colours	x	x
- digital zoom x2		x
- digital zoom x4		x
Battery/ rechargeable battery		
- rechargeable battery Li-Ion 3,6V 5000mAh x1	x	
- rechargeable battery Li-Ion 3,7V 5200mAh x2		x
IP rating		
- IP54	x	x
Supported formats		
- AVI		x
- JPG	x	x
Resistance to		
- fall from 2m height		x
Related items		
- UT-Z003	x	x
Symbol	Product description	
UT1730E	Infrared camera;LCD TFT 3,5";320x240;9Hz;-40÷400°C;56°x42°	
UT1730V	Infrared camera;LCD TFT 3,5";320x240;9Hz;-40÷400°C;56°x42°	

Macro lens; UNI-T



Manufacturer	: UNI-T
Test accessories	: macro lens
Related items	: UT1730E, UT1730V
Symbol	Product description
UT-Z003	Test acces:macro lens

Infrared camera; Optris



Manufacturer	: Optris
Type of meter	: infrared camera
Temperature measuring range	: -20...100°C, 0...250°C, 150...900°C

Refresh rate	: 9Hz
Measurement wavelength	: 8...14µm
Cable length	: 1m
IP rating	: IP67
Interface	: USB 2.0
Symbol	CATXI40LTF20CF9HT9 OPTXI80LTF139HT9
Camera resolution	382x288 80x80
Measuring range	
- 100...300mm	
- 90...110mm	x
Field of observation [°]	18 x 14 12 x 12
Thermal sensitivity (NETD) [mK]	
- 80	x
- 100	
Emissivity value	
- 0,1...1,1	x
Focal length [mm]	
- 12.7	
- 20	x
Output	
- analogue 0...10 V	x
- analogue 0/4...20 mA	
Input	
- analogue 0...10 V, digital	x
24V	
- analog or digital	
Body dimensions [mm]	
- Ø36x100	x
- Ø39x90	
Power supply	
- USB	x
Features (CATXI40LTF20CF9HT9):	
— tripod mount 1/4-20 UNC	
Equipment:	
— PIF cable (CATXI40LTF20CF9HT9)	
— connection cable (OPTXI80LTF139HT9)	
— USB cable	
— ESD pad (CATXI40LTF20CF9HT9)	
— stand (CATXI40LTF20CF9HT9)	
— mounting holder	
— IR connector (USB C) (CATXI40LTF20CF9HT9)	
Symbol	Product description
CATXI40LTF20CF9HT9	Infrared camera;382x288;9Hz;-20÷100°C,0÷250°C,150÷900°C;IP67
OPTXI80LTF139HT9	Infrared camera;80x80;9Hz;-20÷100°C,0÷250°C,150÷900°C;IP67

Oscilloscope: digital; GDS-2000E; GW INSTEK



Manufacturer	: GW INSTEK		
Type of oscilloscope	: digital		
Kind of oscilloscope	: DSO		
Kind of display used	: LCD TFT 8"		
Vertical resolution	: 8bit		
Memory record length	: 10Mpts		
Sampling	: 1Gsp/s		
Trigger modes	: automatic, normal, single		
Trigger coupling	: AC, DC, lowpass, highpass		
Max. input voltage	: 300V		
Input coupling	: AC, DC, GND		
Interface	: LAN; USB		
Dimensions	: 384x208x127.3mm		
Features:	<ul style="list-style-type: none"> — protocols analyse: CAN/LIN — protocols analyse: I2C, SPI, UART — automatic measurement of many parameters — background noise filter — AUTOSET function for setting display parameters (time base, gain) 		
Equipment:	<ul style="list-style-type: none"> — mains cable — oscilloscope probe (1 per channel) 		
Resolution	: 800x480		
Connectors for the country	: Europe		
Symbol	Number of channels	Band [MHz]	Rise time [ns]
GDS-2102E	2	100	≤3.5
GDS-2104E	4	100	≤3.5
GDS-2202E	2	200	≤1.75
GDS-2204E	4	200	≤1.75

cont. on the next page

Oscilloscope: digital; GDS-2000E; GW INSTEK (cont.)

Handheld oscilloscope; OWON



Manufacturer : OWON
 Type of oscilloscope : handheld oscilloscope
 Trigger modes : automatic, normal, single
 Waveforms (HDS2xx2S):
 — arbitrary
 — impulse
 — rectangular
 — ramp
 — sinus
 Power supply:
 — rechargeable battery Li-Ion 18650 3,7V 2200mAh x2
 Equipment:
 — USB cable
 — adjusting tool
 — case
 — test leads (2pcs.)
 — test lead (BNC - crocodile clips) (HDS242, HDS272)
 — test lead (BNC - crocodile clips) x2 (HDS242S, HDS272S, HDS2102, HDS2102S)
 — oscilloscope probe
 — power supply

Display : LCD 3,5"
 Manufacturer series : HDS200
 Input coupling : AC, DC, GND
 Number of channels : 2
 DC voltage measuring range : 200mV/2V/20V/200V/1kV
 AC voltage measuring range : 200mV/2V/20V/200V/750V
 DC current measuring range : 200mA/10A
 AC current measuring range* : 200mA/10A
 Capacitance measuring range : 20nF/200nF/2μF/20μF/200μF/2mF
 Resistance measuring range : 200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/100MΩ
 Memory record length : 8kpts
 Vertical resolution : 8bit
 In. imp. : 1MΩ/16pF
 Dimensions : 198x96x38mm

* 1) indirect measurement

Symbol	Sampling	Band	Rise time
		[MHz]	[ns]
HDS242	250Msps	40	≤8
HDS242S	250Msps	40	≤8
HDS272	250Msps	70	≤5
HDS272S	250Msps	70	≤5
HDS2102	500Msps	100	≤3.5
HDS2102S	500Msps	100	≤3.5

Oscilloscope: digital; DSO2000; HANTEK

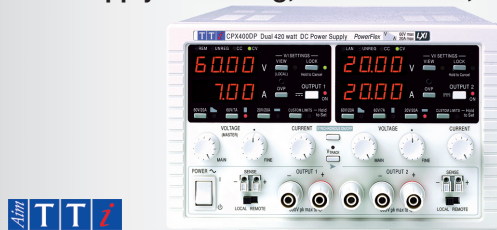


Manufacturer : HANTEK
 Type of oscilloscope : digital
 Kind of oscilloscope : DSO
 Display : colour, LCD TFT 7"
 Number of channels : 2
 Sampling : 1Gsps
 Max. input voltage : 300V
 Input coupling : AC, DC, GND
 Interface : USB
 Conform to the norm : CAT II 300V, EN 61010
 U_{sup} : 100...240V AC
 Memory record length : 4Mpts/ch
 Support : SCPI

Equipment : USB cable;
 mains cable;
 test leads;
 oscilloscope probe with 10:1 divider
 Arbitrary waveform (DSO2D10, DSO2D15):
 — record length: 4096
 Features:
 — FFT analysis: Hanning, Flattop, Rectangular, Bartletta, Blackman, Hamming
 — protocols analyse: I2C, SPI, RS232/UART, CAN, LIN
 — automatically measures frequency, period, peak to peak, RMS, MIN, MAX, MEAN values
 — mathematical functions: addition, subtraction, division, multiplication and FFT
 — measurements by means of cursors

Symbol	Band	Vertical resolution	Rise time
	[MHz]	[bit]	[ns]
DSO2C10	100	8	≤3.5
DSO2C15	150	12	≤2.4
DSO2D10	100	12	≤3.5
DSO2D15	150	8	≤2.4

Power supply: switching, multi-channel; AIM-TTI



Manufacturer : AIM-TTI
 Symbol CPX400D CPX400DP
 Type of laboratory power supply laboratory programmable laboratory
 Number of channels : 2
 Kind of display used : LED x4
 Display parameters : 4 digit
 Output voltage : 0...60V DC
 Output current : 0...20A
 Output voltage 2 : 0...60V DC
 Output current 2 : 0...20A
 Output voltage resolution : 0.01V
 Output current resolution : 0.01A
 Voltage (regulated) ripple and noise : ≤7mVrms
 Voltage load regul. : <0.02%
 Dimensions : 210x130x375mm
 U_{sup} : 230V AC
 Manufacturer series : CPX
 Interface (CPX400DP): Ethernet; LAN; RS232; USB.
 Measuring instrument features:
 — LOCK function (settings lock)
 — simultaneous voltage and current readout
 — constant voltage or constant current operation
 — voltage and current stepless adjustment
 — coarse and fine voltage adjustment
 Connectors for the country : Europe, Great Britain
 Symbol Kind of power supply
 CPX400D switching, multi-channel
 CPX400DP switching, programmable, multi-channel

Power supply: switching, single-channel; AXIOMET



Kind of power supply : switching, single-channel
 Display : LCD
 Display parameters : 3 digit
 Number of channels : 1
 Current stabilisation : ≤1%+ 5mA
 Voltage (regulated) ripple and noise : ≤200mVpp
 Voltage stabilisation : ≤1%+ 10mV
 U_{sup} : 230V AC
 Protection : anti-overload OPP
 Connectors for the country : Europe
 Type of laboratory power supply : laboratory
 Features:
 — simultaneous voltage and current readout

cont. on the next page

Power supply: switching, single-channel; AXIOMET (cont.)

— voltage and current stepless adjustment
— coarse and precise voltage and current adjustment

Symbol	Dimensions [mm]	Output voltage [V DC]	Output current [A]
AX-3005DS	85x160x205	0...30	0...5
AX-3010DS	80x160x205	0...30	0...10

Power supply: single-channel, linear; 600W; TWINTEX



Manufacturer : TWINTEX
Kind of power supply : single-channel, linear
Number of channels : 1
Display : LED x2
Display parameters : 3 digit
Voltage stabilisation : $\leq 0.02\% + 5mV$
Current stabilisation : $\leq 0.2\% + 3mA$
Voltage (regulated) ripple and noise : $\leq 2mVrms$
Dimensions : 260x160x370mm
 U_{sup} : 100...240V AC
Type of laboratory power supply : laboratory

- Features:
— simultaneous voltage and current readout
— coarse and precise voltage and current adjustment

Symbol	Output voltage [V DC]	Output current [A]	Maximum power [W]
TP-3010	0...30	0...10	600
TP-3020	0...30	0...20	600
TP-6010	0...60	0...10	600

Power supply: programmable laboratory; TDK-LAMBDA



Type of laboratory power supply : programmable laboratory
Manufacturer : TDK-LAMBDA
Display : LED x2
Display parameters : 4 digit
Number of channels : 1
 U_{sup} : 85...265V AC
Mounting : rack 19"
Operating modes : constant voltage, constant current
Dimensions (W x H x D) : 482.8x43.6x507mm
Interface : RS232; RS485

Symbol	GEN-20-38/LN	GEN-300-5
Output voltage [V DC]		
- 0...20	x	
- 0...300		x
Manufacturer's part number	GEN-20-38/LN	GEN-300-5
Output current [A]	0...38	0...5
Output voltage resolution [mV]	2.4	36
Output current resolution [A]	9.12m	300 μ
Voltage (regulated) ripple and noise		
- $\leq 60Vpp, \leq 8Vrms$	x	
- $\leq 120Vpp, \leq 20Vrms$		x
Maximum power [W]	760	1500
Connectors for the country		
- Europe	x	
Input connector		
- IEC320	x	
- terminal block		x

- Features:
— front panel lockout
— last setting memory
— parallel mode operation

Symbol	Product description
GEN-20-38/LN	Power supply;programmable laboratory;Ch:1;0=20VDC;0=38A;760W
GEN-300-5	Power supply;programmable laboratory;Ch:1;0=300VDC;0=5A;36mV

LCR meter; GW INSTEK



Manufacturer : GW INSTEK
Type of meter : LCR meter
Kind of display used : LCD 3,5"
Resistance measuring range : 1E-05...99.999M Ω
Induct. measur. range : 1E-05 μ H...9999.99H
Capacitance measuring range : 1E-05pF...9999.99mF
Dimensions : 265x107x312mm
Measurement : inductance, capacitance, resistance
Manufacturer series : LCR-6000
 U_{sup} : 100...240V AC

- Equipment:
— four-wire Kelvin clips
— mains cable

Symbol	Measurement frequency [Hz]
LCR-6002	10...2k
LCR-6020	10...20k
LCR-6100	10...100k
LCR-6200	10...200k
LCR-6300	10...300k

Scopemeter; FLUKE 120B



Manufacturer : FLUKE
Type of oscilloscope : scopemeter
Sampling : 40Mpsps
Display : colour, LCD TFT 5,7"
Display resolution : 640x480
Number of channels : 2
Measurement : energy, harmonics, reactive power, active power, apparent power, AC voltage, DC voltage, capacitance, resistance, power factor

AC voltage measuring range : 500mV/5V/50V/500V/750V
DC voltage measuring range : 500mV/5V/50V/500V/750V
Capacitance measuring range : 50nF/500nF/5 μ F/50 μ F/500 μ F
Continuity test : acoustic indication
Diode test : 0.5mA @2.8V
IP rating : IP51
Manufacturer series : FLUKE 120B
Conform to : CAT II 750V, CAT IV 600V, EN 61010

Dimensions	: 259x132x55mm
Power supply	: rechargeable battery Li-Ion 10,8V x1, power supply 17,8V DC
Connectors for the country	: Europe
DC voltage measuring accuracy	: $\pm(0.5\% + 5 \text{ digit})$
Resistance measuring accuracy	: $\pm(0.6\% + 5 \text{ digit})$

- Features:
— WiFi adapter connected to internal USB port to wirelessly transfer information to the PC, laptop or Fluke Connect® mobile app
— Connect-and-View function that ensures stable, reliable and repeatable signal display without operator
— 20 screens memory
— IntellaSet technology automatically and intelligently adjusts numerical readout based on the measured signal
— set actual value to reference
— rugged design to withstand 3g Vibration, 30g shock
— external optically isolated USB interface to transfer, archive and analyze scope or meter data

- Equipment:
— 2 x shielded test lead with ground lead
— BNC to banana plug adapter
— adapter WiFi USB
— black test lead
— FLK-1400S - current clamp (FLK-125B, FLK-125B/S)
— blue and red grapple hook
— screen protector (FLK-12xB/S)
— case (FLK-12xB/S)
— magnetic hanging strap (FLK-12xB/S)

cont. on the next page

Scopemeter; FLUKE 120B (cont.)

— battery charger/power supply

Symbol	Band [MHz]	Time base	Resistance measuring range [Ω]
FLK-123B	20	20n...60s/div	500/5k/50k/500k/5M/30M
FLK-124B	40	10n...60s/div	500/5k/50k/500k/5M/30M
FLK-125B	40	10n...60s/div	50/500/5k/50k/500k/5M/30M
FLK-123B/S	20	20n...60s/div	500/5k/50k/500k/5M/30M
FLK-124B/S	40	10n...60s/div	500/5k/50k/500k/5M/30M
FLK-125B/S	40	10n...60s/div	50/500/5k/50k/500k/5M/30M

Vibrometer; EXTECH



Type of meter : vibrometer
 Illumination : yes
 Display : LCD
 Measuring range : 200m/s², 200mm/s, 2mm
 Frequency : 0.01...1kHz
 Measurement accuracy : ±(5% + 2 digits)
 Interface : RS232
 Power supply : battery LR6 AA 1,5V x6
 Dimensions : 182x73x47.5mm

- Features:
- automatic power-off
 - HOLD function
 - MIN/MAX function
 - option of memory card connection SD
 - datalogging
 - low battery indicator

- Equipment:
- SD memory card
 - probe
 - hard case

Symbol	Product description
SDL800	Vibrometer;Display:LCD;200m/s ² ,200mm/s,2mm;0,01+1kHz

Wire localizer; SONEI



Manufacturer : SONEI
 Type of tester : wire localizer
 Display : LCD
 Detection : localises discontinuity in live conductors, localisation of wire breaks
 Interface : USB
 Conform to the norm : CAT III 600V, EN 61010
 IP rating : IP40, IP67 (transmitter)
 Operating temperature : -20...50°C
 Battery/ rechargeable battery : battery 6LR61 9V x1, battery LR6 AA 1,5V x4

- Features:
- examination of live lines
 - sorting bundled wires
 - detects discontinuities and short circuits in cables
 - detects wires in ceilings, walls and floors

- Equipment:
- calibration certificate
 - soft case
 - USB cable
 - 2 crocodile clips
 - transmitter
 - receiver

- test leads (2pcs.)
- 20m long test lead (red)
- 2 pointed electrodes

Symbol	Product description
LKZ-720-ENG	Wire localizer;LCD;Interface:USB;IP40,IP67 (transmitter)
LKZ-720-PL	Wire localizer;LCD;Interface:USB;IP40,IP67 (transmitter)
LKZ-720-DE	Wire localizer;LCD;Interface:USB;IP40,IP67 (transmitter)

Counter; digital, mounting; LUMEL

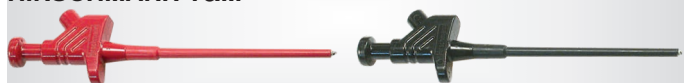


Manufacturer : LUMEL
 Type of meter : counter
 Kind of meter : digital, mounting
 Display : LCD
 Illumination : yes
 Kind of network : three-phase
 Operating frequency : 45...65Hz
 Rated voltage : 230V/400V
 U_{in} : 100...289V
 Accuracy : 1%
 Communications protocol : Modbus RTU
 Mounting : for DIN rail mounting
 IP rating : IP51
 Accuracy class : B
 Output : relay, OC type output
 Interface : RS485
 Operating temperature : -25...55°C

Symbol	NMID30-1	NMID30-2
Maximum current [A]	6	100
U _{sup} [V DC]		
- 120...380	x	
U _{sup} [V AC]		
- 85...265	x	
Dimensions (W x H x D) [mm]	72x94.5x65	76x100x65

- Features:
- MID certificate
- | Symbol | Kind of measurement |
|----------|--------------------------------------|
| NMID30-1 | indirect with 5A current transformer |
| NMID30-2 | direct |

Clip-on probe; pincers type; HIRSCHMANN T&M



Manufacturer : HIRSCHMANN T&M
 Test accessories : clip-on probe
 Kind of clip-on probe : pincers type
 Rated voltage : 60V DC
 Type : with socket with screw locking
 Max. contact resistance : 100mΩ
 Operating temperature : -25...80°C
 Socket size : 4mm
 Overall length : 158mm

Symbol	Colour
KLEPS30RT	red
KLEPS30SW	black

Crocodile clip; 10A; FLUKE



Manufacturer : FLUKE
 Test accessories : crocodile clip
 Grip capacity : max. 20mm
 Rated voltage : 1kV DC
 Current rating : 10A
 Contact material : steel
 Contact plating : nickel plated
 Socket size : 4mm
 Colour : red and black
 Kit contents : crocodile clip x2
 Symbol : Product description
 FLK-AC285 : Crocodile clip;10A;1kVDC;red and black;Grip capac:max.20mm

Crocodile clip; 15A; 2mm; HIRSCHMANN T&M



Manufacturer : HIRSCHMANN T&M
 Test accessories : crocodile clip
 Grip capacity : max. 4mm
 Rated voltage : 60V DC
 Current rating : 15A
 Socket size : 2mm
 Manufacturer series : MA 1

Symbol	Colour	Symbol	Colour
MA1SW	black	MA1GN	green
MA1RT	red	MA1GR	grey
MA1BL	blue	MA1WE	white
MA1GE	yellow		

Measuring tip; 0.6mm; ELECTRO-PJP



Manufacturer : ELECTRO-PJP
 Test accessories : measuring tip
 Current rating : 1A
 Socket size : 4mm
 Tip diameter : 0.6mm
 Blade length : 19mm
 Overall length : 54mm
 Operating temperature : -25...80°C
 Rated voltage : 30V AC
 Rated voltage : 60V DC

Symbol	Manufacturer's part number	Colour
ADA35/NEEDLE0.6-N	ADA35/NEEDLE0.6-N	black
ADA35/NEEDLE0.6-R	ADA35/NEEDLE0.6-R	red

Test lead; SCI



Manufacturer : SCI
 Test accessories : test lead
 Structure : clip-on hook probe x2; banana plug 4mm x2
 Rated voltage : 60V DC
 Current rating : 10A
 Wire insulation material : PVC
 Body material : ABS
 Cable length : 0.95m

Symbol	Colour
PPOM-36/B	black
PPOM-36/R	red

Test leads; 10A; AXIOMET



Type of test accessories : test leads
 Test lead configuration : probe tip x2; angular banana plug 4mm x2
 Kit contents : test leads x2
 Current rating : 10A
 Wire insulation material : PVC
 Cable length : 1.2m
 Conform to the norm : CAT III 1000V, EN 61010

Symbol	Product description
AX-TLP-001T	Test leads;Inom:10A;Len:1.2m;test leads x2;red and black

Test leads; 10A; FLUKE



Manufacturer : FLUKE

Test accessories	: test leads	
Kit contents	: test leads x2	
Structure	: probe tip x2; angular banana plug 4mm x2	
Current rating	: 10A	
Colour	: red and black	
Pollution degree	: 2	
Wire insulation material	: silicone	
Symbol	Conform to the norm	Cable length [m]
FLK-TL175	CAT II 1000V, CAT III 1000V, CAT IV 600V, EN 61010	1.2
FLK-TL175E	CAT II 1000V, CAT III 1000V, CAT IV 600V, EN 61010	1.2

Test lead; banana plug 4mm; 32A; STÄUBLI



Manufacturer : STÄUBLI
 Test accessories : test lead
 Structure : banana plug 4mm; both sides
 Wire insulation material : silicone
 Contact plating : nickel plated
 Rated voltage : 600V
 Current rating : 32A
 Type : with 4mm axial socket; with sliding cover
 Conform to the norm : CAT II 600V, EN 61010

Symbol	Colour	Symbol	Colour
XZG425/SIL-10020	yellow-green	XZG425/SIL-10024	yellow
XZG425/SIL-10021	black	XZG425/SIL-10025	green
XZG425/SIL-10022	red	XZG425/SIL-10027	brown
XZG425/SIL-10023	blue	XZG425/SIL-10028	grey

Test leads; KEYSIGHT



Manufacturer : KEYSIGHT
 Test accessories : test leads
 Colour : red and black
 Application : for meters Keysight
 Kit contents:
 — SMT clip-on probes
 — backprobe pins
 — 19mm backprobe pins
 — 4mm backprobe pins
 — crocodile clips
 — mini clip-on probe
 — test leads x2

Symbol	Product description
U1168A	Test leads;red and black;Application:for meters Keysight

Test lead; BNC plug; SCHÜTZINGER



Manufacturer : SCHÜTZINGER
 Test accessories : test lead
 Wire insulation material : PVC
 Contact plating : nickel plated
 Cable length : 0.5m
 Operating temperature : -10...50°C
 Structure : BNC plug; banana plug 2mm x2
 Symbol Colour
 KO8162RG580550-SW red and black

Soldering equipment

Soldering iron: with htg elem.; SOLOMON SORNY ROONG

SOLOMON



Manufacturer	: SOLOMON SORNY ROONG	
Type of soldering iron	: with htg elem.	
Supply voltage	: 230V	
Soldering iron length	: 260mm	
Connectors for the country	: Europe	
Symbol	Power	Standard equipment
	[W]	
PENSOL-KD-60	60	tip KD-60T
PENSOL-KD-80	80	tip KD-80T
PENSOL-KD-100	100	tip KD-100T

Soldering iron: transformer; High/low power switch; 75/45W; ZDZ



Manufacturer	: ZDZ	
Type of soldering iron	: transformer	
Supply voltage	: 230V	
Illumination	: filament lamp	
Features	: High/low power switch; on/off switch	
Standard equipment	: tip LT-G	
Connectors for the country	: Europe	
Symbol	Power	Tip temperature
	[W]	[°C]
LT-75-45	75/45	400

Soldering iron: gas; PortaPro; PORTASOL



Manufacturer	: PORTASOL	
Type of soldering iron	: gas	
Power	: 125W	
Flame temperature	: 1300°C	
Tip temperature	: 580...625°C	
Operating time	: 120min	
Soldering iron length	: 233mm	
Operating modes	: hot air soldering, soldering and desoldering by means of a tip, heating up with hot flame, use of hot knife	
Manufacturer series	: PortaPro	
Symbol	: PORTAPRO	
Kit contents	: PRO-SP2.4DF tip; PORTAPRO gas soldering iron	
Symbol	: PORTAPRO-KIT	
Kit contents	: PRO-SPHOTBLOWS nozzle, 5mm hot air with reflector; PRO-SP2.4SF tip 2,4mm chisel; PRO-SP4.8DF tip 4,8mm spade; PRO-SPKNIFETIP tip, hot knife; PORTAPRO gas soldering iron; container with a tip cleaning sponge	
Symbol	Product description	
PORTAPRO	Soldering iron:gas;125W;1300°C;Tip temp:580-625°C;120min	
PORTAPRO-KIT	Soldering iron:gas;125W;1300°C;Tip temp:580-625°C;120min	

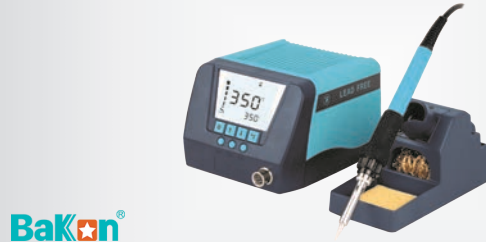
Temperature meter; BAKON



Manufacturer	: BAKON
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Type of device	: temperature meter
Applications	: soldering tips temperature measurement
Temperature measuring range	: 0...600°C
Dimensions	: 160x80x45mm
Temperature measurement resolution	: 1°C
Features	: interchangeable sensor
Equipment	: temperature sensor x10
Power supply	: battery 9V x1
Symbol	Product description
BK191	Temperature meter;soldering tips temperature measurement

Station: soldering; 90W; BAKON



Manufacturer	: BAKON
Type of station	: soldering
Station power	: 90W
Soldering iron temperature range	: 200...480°C
Temperature accuracy	: ±2°C
Temperature control	: digital, with push-buttons
Station supply voltage	: 230V AC
Station functions	: parameters interlock, password lockout function, hibernation mode, stand-by
Features	: can operate in lead-free technology; memory for 3 temperature settings; possibility to change time needed to start sleep mode; selection between °C and °F
Standard equipment	: soldering iron; tip cleaner; soldering iron stand with sponge
Connectors for the country	: Europe
Symbol	Product description
BK90	Station:soldering;Station power:90W;200-480°C

Station: soldering; digital; JBC-CD; JBC TOOLS



Manufacturer	: JBC TOOLS	
Temperature control	: digital, with push-buttons	
Kind of heating element	: in the tip	
Temperature range	: 90...450°C	
Station supply voltage	: 230V AC	
Display	: LCD	
Ver.	: ESD	
Interface	: USB B	
Station functions	: parameters interlock, temperature calibration, statistics of the device operations, hibernation mode, stand-by	
Manufacturer series	: JBC-CD	
Features	: earthing socket; can operate in lead-free technology; possibility to change time needed to start stand-by or hibernation; possibility to change stand-by temperature; after putting the tool on the bench support, the tool passes to the sleep/hibernation state; wide range of tips; built-in programmer; selection between °C and °F; tip replacement with one hand; tip replacement in hot state	
Connectors for the country	: Europe	
Type of station	: soldering	
Symbol	JBC-CD-2SQF	JBC-CD-2BQF
Station power [W]	40	130
Standard equipment		

cont. on the next page

Soldering equipment

Station: soldering; digital; JBC-CD; JBC TOOLS (cont.)

Symbol	JBC-CD-2SQF	JBC-CD-2BQF
- soldering tips not included	x	x
- tip cleaner	x	x
- JBC-T210-A soldering iron	x	
- JBC-T245-A soldering iron		x

Station: soldering; digital; 80W; ATTEN



Manufacturer : ATTEN
Station power : 80W
Temperature control : digital, with push-buttons
Temperature range : 150...480°C
Temperature accuracy : ±2°C
Station supply voltage : 230V AC
Soldering iron supply voltage : 26V
Display : LCD
Ver. : ESD
Station functions : push-buttons for quick temperature change
Features : selection between °C and °F;
high temperature stability
Equipment : tip T900-B;
soldering iron AT-AP-80;
soldering iron stand with tip cleaning sponge
Connectors for the country : Europe
Type of station : soldering
Symbol Product description
AT-980E Station:soldering;Station power:80W;150÷480°C;ESD

Station: soldering; digital; ESD; WT; WELLER



Manufacturer : WELLER
Type of station : soldering
Temp. cont. : digital, with push-buttons
Station sup. volt. : 230V AC
Ver. : ESD
Display : LCD
Station functions : parameters interlock, temperature calibration, hibernation mode, stand-by

Manufacturer series : WT

Symbol	Equipment
WEL.WT1012SET	tip WEL.LT-B; WEL.WSP80 soldering iron; stand WEL.WSR201; station WEL.WT1
WEL.WT1013SET	tip WEL.LT-B; WEL.WP80 soldering iron; stand WEL.WSR201; station WEL.WT1
WEL.WT1014SET	tip WEL.LT-B; WEL.WP80ROBUST soldering iron; stand WEL.WSR201; station WEL.WT1
WEL.WT1010SET	tip WEL.XNT-A; WEL.WTP90 soldering iron; stand WEL.WSR200; station WEL.WT1
WEL.WT1010HSET	tip WEL.XT-B; WEL.WP120 soldering iron; stand WEL.WSR201; station WEL.WT1H
WEL.WT1011HSET	tip WEL.XHT-D; WEL.WP200 soldering iron; stand WEL.WSR202; station WEL.WT1H

Symbol	Features	Station of power [W]	Number of channels	Connectors for the country
WEL.WT1012SET	earthing socket	95	1	Europe, Great Britain
WEL.WT1013SET	earthing socket	95	1	Europe, Great Britain
WEL.WT1014SET	earthing socket	95	1	Europe
WEL.WT1010SET	earthing socket	95	1	Europe, Great Britain
WEL.WT1010HSET	earthing socket	150	1	Europe, Great Britain
WEL.WT1011HSET	earthing socket	150	1	Europe

Soldering iron: wireless with htg elem.; 12W; WELLER



Manufacturer : WELLER
Type of soldering iron : wireless with htg elem.
Power : 12W
Supply voltage : 5V
Plug variant : USB

Battery/ rechargeable battery : rechargeable battery Li-Ion 3,7V 2600mAh x1
Tip temperature : 510°C
Heating up time : 45s
Tip shape : conical
Tip dimensions : 0.4mm
Illumination : LED
Features : automatic power off after putting on a protective cap;
up to 180 pads soldered on one set of batteries;
Longlife tip;
High/low power switch;
operation LED indicator

Equipment : soldering iron;
USB cable;
protective cap;
tip WEL.WLTC04LBA12

Symbol Product description
WEL.WLBRK12EU Soldering iron:wireless with htg elem;Power:12W;5V

Station: hot air; 1000W; ATTEN



Manufacturer : ATTEN
Type of station : hot air
Station power : 1000W
Temperature control : digital, with push-buttons
Hot air temp. range : 100...480°C
Flow : 20...130l/min
Station supply voltage : 230V AC
Ver. : ESD
Display : LCD
Dimensions : 208x175x150mm
Features : alarm for exceeding the set temperature;
digital temperature calibration;
sleep function;
memory for 3 temperature settings;
temperature switch in the hot air pencil
Standard equipment : stand;
nozzle AT-A2605;
nozzle AT-A2664;
nozzle AT-B2608;
nozzle AT-B2610;
ST-SP-102B hot air pencil

Connectors for the country : Europe
Symbol Product description
ST-862D Station:hot air;digital,with push-buttons;1000W;100÷480°C

120W; DENON



Manufacturer : DENON
Type of device : desoldering iron
Desoldering iron power : 120W
Desoldering iron temperature range : 350...500°C
Desoldering iron supply voltage : 230V
Desoldering iron vacuum : 600mm Hg
Pump efficiency : 15l/min
Ver. : ESD
Desoldering iron functions : desoldering by solder suction
Equipment : two filters, single and tripple cleaning rods;
nozzle DN-SC0001

Connectors for the country : Europe
Symbol Product description
DN-SC7000 Desoldering iron;ESD;120W;230V;350÷500°C;600mmHg;15l/min

Station: desoldering; digital; 40W; JBC TOOLS



Manufacturer	: JBC TOOLS
Type of station	: desoldering
Station power	: 40W
Temperature control	: digital, with push-buttons
Desoldering iron temperature range	: 180...450°C
Station supply voltage	: 230V AC
Ver.	: ESD
Interface	: USB B
Display	: LCD
Station functions	: parameters interlock, temperature calibration, hibernation mode, stand-by
Desoldering iron functions	: desoldering by solder suction
Features	: earthing socket; can operate in lead-free technology; possibility to change time needed to start stand-by or hibernation; possibility to change time needed to start sleep mode; possibility to change stand-by temperature; after putting the tool on the bench support, the tool passes to the sleep/hibernation state; wide range of tips; selection between °C and °F; tip replacement with one hand; tip replacement in hot state
Standard equipment	: soldering tips not included; nozzle JBC-C360002; nozzle JBC-C360004; micro desoldering iron JBC-DS-A; suction module JBC-MS-A
Connectors for the country	: Europe

Symbol	Product description
JBC-CS-2F	Station:desoldering;40W;180-450°C;230VAC;ESD;Display:LCD

Dosing gun; FISNAR



Manufacturer	: FISNAR
Type of tool	: dosing gun
Features	: impact resistant body; fitted with pusher release trigger
Symbol	Applications
FIS-JD927	for 10ml syringes
FIS-JD927-30	for 30ml syringes; for 55ml syringes

Fume extractor; SOLDER PEAK



Type of device	: fume extractor
Power	: 23W
Air flow	: 1000l/min
Supply voltage	: 230V AC
Connectors for the country	: Europe
Symbol	ZD-153
Features	: carbon filter for solder fume extraction; delivered with 2 replaceable filters
Symbol	ZD-153A
Features	: carbon filter for solder fume extraction; movable arm enables easy positioning of the extractor according to user's needs; delivered with 2 replaceable filters
Symbol	Product description
ZD-153	Fume extractor;1000l/min;230VAC;23W;black
ZD-153A	Fume extractor;1000l/min;230VAC;23W;black

Station: desoldering; digital; 140W; SOLDER PEAK



Type of station	: desoldering
Station power	: 140W
Desoldering iron power	: 80W
Temperature control	: digital, with push-buttons
Kind of heating element	: ceramic
Desoldering iron temperature range	: 160...480°C
Station supply voltage	: 240V AC
Desoldering iron sup. v.	: 24V
Desoldering iron vacuum	: 600mm Hg
Features	: good temperature stabilization; short heat-up time; tip temperature control; displays tip's actual or set temperature
Equipment	: stand; nozzle SP-1010-T1; nozzle SP-1010-T3; tip cleaning sponge; desoldering iron

Connectors for the country	: Europe
Symbol	Product description
SP-1010DR	Station:desoldering;Station power:140W;160-480°C;240VAC;ESD

Burner: gas; 1300°C; A-HOT



Manufacturer	: A-HOT	
Type of burner	: gas	
Flame temperature	: 1300°C	
Kind of gas	: butane	
Applications	: for heat shrinking; for small soldering operations	
Features	: igniter lock; operation in any position; protection cap; continuous/intermittent operation switch; standard refilling valve; piezoelectric lighter	
Symbol	Tank capacity	Height
	[ml]	[mm]
PAL-805	7.5	85
PAL-806	15	85
PAL-820	25	105

Solder: tin; lead-based; CYNEL



Manufacturer	: CYNEL
Type of solder	: tin
Appearance	: soldering wire
Kind of solder	: lead-based

cont. on the next page

Soldering equipment

Solder: tin; lead-based; CYNEL (cont.)

Alloy composition : Sn60Pb40
 Melting point : 190°C
 Flux content : 2.5%
 Kind of flux : halide, rosin, No Clean, ROL1
 Version : for soft soldering

Symbol	Package	Diameter	Weight
		[mm]	[kg]
LC60-0.50/0.1	reel	0.5	0.1
LC60-0.50/0.25	reel	0.5	0.25
LC60-0.56/0.1	reel	0.56	0.1
LC60-0.56/0.25	reel	0.56	0.25
LC60-0.70/0.1	reel	0.7	0.1
LC60-0.70/0.25	reel	0.7	0.25
LC60-0.70/0.5	reel	0.7	0.5
LC60-0.90/0.25	reel	0.9	0.25
LC60-1.00/0.25	reel	1	0.25
LC60-1.00/1.0	reel	1	1
LC60-1.2/0.25	reel	1.2	0.25
LC60-1.20/0.5	reel	1.2	0.5
LC60-1.50/0.1	reel	1.5	0.1
LC60-1.50/0.25	reel	1.5	0.25
LC60-1.50/0.5	reel	1.5	0.5

Flux: rosin based; MG CHEMICALS



Manufacturer : MG CHEMICALS
 Type of flux : rosin based
 Colour : yellow
 Package : syringe
 Appearance : gel
 Capacity : 10ml
 Kind of flux : ROL1
Symbol Product description
MGCH-8341-10ML Flux:rosin based;ROL1;gel;syringe;10ml;yellow

Flux: rosin based; AG TERMO PASTY



Manufacturer : AG TERMO PASTY
 Type of flux : rosin based
 Features:
 — activated with adipic acid (2,5%)
Symbol Package Appearance
KALAFONIA-20 can resin
KALAFONIA-35 can resin
KALAFONIA-100 can resin
KALAFONIA-500 bag resin
KALAFONIA-1000 plastic container resin

Flux: rosin based; gel; ALPHA



Manufacturer : ALPHA
 Type of flux : rosin based
 Package : syringe
 Appearance : gel
 Capacity : 10ml
 Applications:
 — BGA (TOPNIK-GEL-BGA)
 — SMD soldering (TOPNIK-GEL)
 — industrial
Symbol Kind of flux Colour
TOPNIK-GEL halide-free, RMA, ROL0 amber
TOPNIK-GEL-BGA halide-free, ROL0, synthetic white

Soldering iron stand; SOLOMON SORNY ROONG



Manufacturer : SOLOMON SORNY ROONG
 Type of tool : soldering iron stand
 Applications : for soldering irons
 Features : stable structure
Symbol Standard equipment
SR-SH814 tip cleaning sponge

Brush; DONAU ELEKTRONIK



Manufacturer : DONAU ELEKTRONIK
 Type of tool : brush
 Applications : precision components cleaning, PCB tracks, connection points
 Features : cartridge in the form of compact ribbon; the cartridge is pushed out by means of a turning knob at the end of the brush
 Related items:
 — D-GPME (D-GPM2)
 — FIBERREFILL (FIBERPEN)
Symbol Cartridge material Tip diameter Length
FIBERPEN fiberglass - 120
D-GPM2 brass wire 4 120

Desoldering pump; SOLOMON SORNY ROONG



Manufacturer : SOLOMON SORNY ROONG
 Type of tool : desoldering pump
 Features : high suction force
Symbol: SR-SH817A:
 Version:
 — ESD
Symbol Diameter Length
 [mm] [mm]
SR-SH833 17 160
SR-SH817 18 195
SR-SH817A 18 195

Tape: desoldering; Lead Free, halide-free; CHEMTRONICS



Manufacturer : CHEMTRONICS
 Type of tape : desoldering
 Kind of flux : halide-free, rosin, Lead Free, No Clean, ROL0
 Material : copper
 Version : ESD
 Flux residues : non-corrosive
 Features : very good thermal transfer; impregnated with flux
Symbol Length Width
 [m] [mm]
CH-SW40-1-5 1.5 0.8

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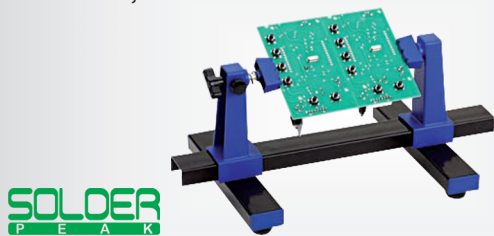
**Tape: desoldering; Lead Free, halide-free;
CHEMTRONICS (cont.)**

Symbol	Length [m]	Width [mm]
CH-SW40-2-5	1.5	1.5
CH-SW40-2-10	3	1.5
CH-SW40-3-5	1.5	2
CH-SW40-3-10	3	2
CH-SW40-4-5	1.5	2.8
CH-SW40-4-10	3	2.8

Symbol	Applications
CH-SW40-1-5	small solder pads; cleaning of tracks from solder residues; SMD desoldering; solder removing; desoldering of temperature sensitive components; desoldering of components from PCBs
CH-SW40-2-5	small solder pads; cleaning of tracks from solder residues; SMD desoldering; solder removing; desoldering of temperature sensitive components; desoldering of components from PCBs
CH-SW40-2-10	small solder pads; cleaning of tracks from solder residues; SMD desoldering; solder removing; desoldering of temperature sensitive components; desoldering of components from PCBs
CH-SW40-3-5	cleaning of tracks from solder residues; solder removing; desoldering of temperature sensitive components; desoldering of components from PCBs; medium solder pads
CH-SW40-3-10	cleaning of tracks from solder residues; solder removing; desoldering of temperature sensitive components; desoldering of components from PCBs; medium solder pads
CH-SW40-4-5	BGA; large solder pads; cleaning of tracks from solder residues; solder removing; desoldering of temperature sensitive components; desoldering of components from PCBs
CH-SW40-4-10	BGA; large solder pads; cleaning of tracks from solder residues; solder removing; desoldering of temperature sensitive components; desoldering of components from PCBs

PCB holder with magnifying glass; SOLDER PEAK


Type of tool	: PCB holder with magnifying glass
Lens dimensions	: Ø60mm
Features	: fixing elements in the form of spring loaded clips; magnifying glasses facilitate observation of operation field; adjustment of fixation height, spacing, angle and magnifying glass position; system of double articulated arms
Applications	: for fixing PCBs and components while soldering and inspection
Symbol	Product description
D-HH2	PCB holder with magnifying glass; Ø60mm; third hand

PCB holder; SOLDER PEAK


Type of tool	: PCB holder
Max. PCB dimensions	: 200x140mm
Pot dimensions	: 300x165x125mm
Applications	: PCB mounting
Features	: rubber feet of the base ensure stability; possibility to turn PCB 360° round; rigid metal structure; easy PCB mounting
Symbol	Product description
SP-HOLDER-1	PCB holder; PCB mounting; 300x165x125mm; 200x140mm

Chemical products
Cleaning agent; flux removing; KONTAKT CHEMIE


Manufacturer	: KONTAKT CHEMIE		
Chemical agent	: cleaning agent		
Application	: flux removing		
Features	: fitted with special applicator		
Standard equipment	: brush		
Symbol	Capacity	Appearance	Colour
	[ml]		
PCC/200	200	spray	colourless
PCC/400	400	spray	colourless

Cleaning agent; electrical contacts; KONTAKT60


Manufacturer	: KONTAKT CHEMIE		
Type of chemical agent	: cleaning agent		
Application	: cleaning		
Application	: electrical contacts		
Max ambient temperature	: 80°C		
Density	: 0.76g/cm ³ @ 20°C		
Package	: can		
Symbol	Capacity	Appearance	Colour
	[ml]		
60/100	100	spray	red
60/200	200	spray	red
60/400	400	spray	red

Cloth; KIMTECH Pure; low dusting


Manufacturer	: KIMBERLY CLARK
Type of cleaning cloth	: cloth
Application	: cleanroom, food industry, medical device industries, dry wiping of equipment and surfaces in pharmaceutical
Cleanroom classification	: ISO 4
Version	: dry
Colour	: white
Manufacturer series	: KIMTECH Pure
Cloth dimensions	: 385x351mm
Quantity in set/package	: 35pcs.
Features	: low dusting
Symbol	Product description
KIM-7624/35	Cleaning cloth; cloth; dry; 35pcs; 385x351mm; ISO 4; white

Tape: duct; TESA; acrylic coated cloth


Manufacturer	: TESA
Type of tape	: duct
Tape material	: acrylic coated cloth

cont. on the next page

Tape: duct; TESA; acrylic coated cloth (cont.)

Kind of adhesive : natural caoutchouc
 Operating temperature : max. 130°C
 Adhesion to steel : 3.3N/cm
 Elongation at rupture : 13%
 Resistance to : elongation, moisture, water, abrasion
 Application : masking, repairs, general purpose, sealing, bundling, protection, marking
 Features : good adhesion to uneven surfaces
 Tensile strength : 100N/cm

Symbol	Width [mm]	Length [m]	Thickness [mm]	Manufacturer's part number	Colour
TESA-4651-19BK	19	50	0.31	04651-00504-00	black
TESA-4651-19RD	19	50	0.31	04651-00524-00	red
TESA-4651-19GY	19	50	0.31	04651-00534-00	grey

Tape: electrical insulating; TESA; natural caoutchouc



Manufacturer : TESA
 Type of tape : electrical insulating
 Tape material : soft PVC
 Kind of adhesive : natural caoutchouc
 Dielectric strength : 7kV
 Adhesion to steel : 2.2N/cm
 Elongation at rupture : 240%
 Operating temperature : max. 90°C
 Manufacturer series : tesaflex® 53988
 Application : electrical insulation, wire wrapping, bundling

Symbol	Width [mm]	Length [m]	Thickness [mm]	Manufacturer's part number	Colour
53988-15/10-BK	15	10	0.15	53988-00005-00	black
53988-15/10-BL	15	10	0.15	53988-00035-00	blue
53988-15/10-RD	15	10	0.15	53988-00020-00	red
53988-15/10-WH	15	10	0.15	53988-00065-00	white
53988-19/20-BK	19	20	0.15	53988-00006-00	black
53988-19/20-BL	19	20	0.15	53988-00036-00	blue
53988-19/20-GR	19	20	0.15	53988-00111-00	green
53988-19/20-RD	19	20	0.15	53988-00021-00	red
53988-19/20-WH	19	20	0.15	53988-00066-00	white
53988-19/20-YG	19	20	0.15	53988-00081-00	yellow-green
53988-19/20-YL	19	20	0.15	53988-00096-00	yellow
53988-19/25-BK	19	25	0.15	53988-00002-00	black
53988-19/25-WH	19	25	0.15	53988-00062-00	white
53988-19/33-BK	19	33	0.15	53988-00003-00	black

Tesa® 51608; Tape: textile; TESA



Manufacturer : TESA
 Type of tape : textile
 Tape material : PET wool
 Kind of adhesive : natural caoutchouc
 Version : Automotive
 Elongation at rupture : 20%
 Adhesion to steel : 3N/cm
 Operating temperature : 105°C
 Resistance to : tearing, aging, abrasion
 Application : bundling
 Features : very high adhesion; can be broken using your hand; excellent noise attenuation

Symbol	Colour	Width [mm]	Length [m]	Thickness [mm]
TESA-51608-09	black	9	25	0.3
TESA-51608-09/15	black	9	15	0.3
TESA-51608-15	black	15	25	0.3
TESA-51608-15/15	black	15	15	0.3
TESA-51608-19	black	19	25	0.3
TESA-51608-19/15	black	19	15	0.3

Symbol	Colour	Width [mm]	Length [m]	Thickness [mm]
TESA-51608-25	black	25	25	0.3
TESA-51608-25/15	black	25	15	0.3
TESA-51608-38	black	38	25	0.3
TESA-51608-50	black	50	25	0.3

Heat transfer paste; P12; WACKER



WACKER

Manufacturer : WACKER
 Type of chemical agent : heat transfer paste
 Appearance : paste
 Application : facilitates heat transfer
 Application : heatsinks
 Colour : white
 Operating temperature : -30...200°C
 Thermal conductivity : 0.81W/mK
 Min. breakdown voltage : 15V/mm
 Density : 2.25g/cm³ @ 20°C
 Capacity : 90ml
 Package : tube
 Name : P12
 Features : silicon based

Symbol	Product description
P12-90-1	Heat transfer paste;white;silicon based;90ml;P12;0.81W/mK

Marker: with liquid paint; PAINTRITER+ HP

MARKAL



Manufacturer : MARKAL
 Name : PAINTRITER+ HP
 Type of marker : with liquid paint
 Applications : for making inscriptions on oily surfaces, wet and covered with rust, for making inscriptions on glass, plastic, rubber and metals
 Tip shape : round
 Operating temperature : -46...66°C
 Features : xylene-free paint; formulated paint resists running or spreading on wet or damp surfaces; metal barrel increases strength

Symbol	Colour
MAR-96960-WH	white
MAR-96961-YL	yellow
MAR-96962-RD	red
MAR-96963-BK	black
MAR-96965-BL	blue
MAR-96966-GR	green
MAR-96964-OR	orange

Protective coating; PCBs; KONTAKT CHEMIE



Manufacturer : KONTAKT CHEMIE
 Type of chemical agent : protective coating
 Application : isolation, protection against corrosion, sealed
 Application : PCBs; electronic equipment
 Package : can
 Colour : transparent
 Drying time (at 20°C) : 15...20min
 Dielectric strength : 80kV/mm

Symbol	Appearance	Capacity [ml]
70/200	spray	200
70/400	spray	400
70/1000	liquid	1000
70/5000	liquid	5000
70SUPER/5000	liquid	5000

Cyanoacrylate adhesive; LOCTITE



Manufacturer : LOCTITE
 Type of chemical agent : cyanoacrylate adhesive
 Colour : colourless

Symbol	Application	Operating temperature [°C]	Bonding time [s]
LOC-401	rubber; general purpose; polyethylene; polypropylene	-50...120	2...180
LOC-401-3	rubber; general purpose; polyethylene; polypropylene	-50...120	2...180
LOC-402	elastomers; metals; plastics	-40...135	20

Symbol Quantity in set/package

Symbol	Quantity in set/package [pcs.]
NEO-09-751	8
NEO-09-752	12
NEO-09-754	26
NEO-09-753	17

Tool: wrench - set; 6-angles, socket spanner; NEO TOOLS



Manufacturer : NEO TOOLS
 Type of tool : wrench - set
 Kind of wrench : 6-angles, socket spanner

Symbol	Mounting	Quantity in set/package [pcs.]
NEO-10-078	1/2", 1/4", 3/8"	233
NEO-10-058	1/2", 1/4"	82
NEO-10-076	1/2", 1/4", 3/8"	219

Wrench - set; socket spanner; 1/4"; BETA



Manufacturer : BETA
 Kind of wrench : 12-angles, socket spanner
 Mounting : 1/4"
 Socket size : 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm
 Kit : adapter; rattle 1/4"; 12-angles sockets 1/4"; 1/4" screwdriver; 1/4" extension shaft, 100mm long; 1/4" extension shaft, 50mm long

Symbol	Type of tool	Quantity in set/package [pcs.]
900MB/C19	wrench - set	19

Tools

Tool: wrench - set; spanner, insulated; BAHCO



Material : steel
 Conform to the norm : EN 60900, VDE
 Operating voltage max. : 1kV AC
 Manufacturer : BAHCO
 Kind of wrench : insulated, spanner
 Type of tool : wrench - set

Symbol	Quantity in set/package [pcs.]	Spanner size [mm]
SA.6MV/10T	10	10; 11; 12; 13; 14; 16; 17; 18; 19; 22

Wrench - set; combination spanner; 42NEW/SC9I; BETA



Manufacturer : BETA
 Kind of wrench : combination spanner
Information : more products from this series available on www.tme.eu

Symbol	Type of tool	Quantity in set/package [pcs.]
42NEW/SC9I	wrench - set	9

Wrench - set; combination spanner; DIN 3113; NEO TOOLS



Manufacturer : NEO TOOLS
 Type of tool : wrench - set
 Kind of wrench : combination spanner
 Conform to the norm : DIN 3113
 Material : Chrom-vanadium steel

Tool: wrench - set; 3/8"; WERA.05003594001; WERA



Manufacturer : WERA
 Kind of wrench : 6-angles, socket spanner
 Kit : soft case; rattle; 6-angles sockets

Symbol	Type of tool	Quantity in set/package [pcs.]
WERA.05003594001	wrench - set	43

Tools

Tool: wrench - set; hex key; BAHCO



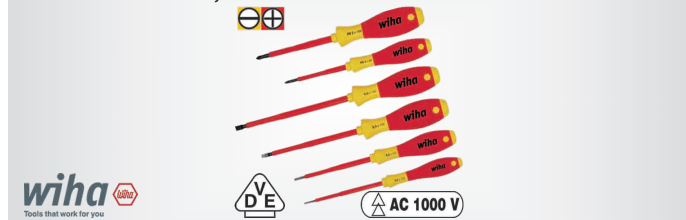
Manufacturer : BAHCO
Type of tool : wrench - set
Material : stainless steel
Information : *more products from this series available on www.tme.eu*
Kind of wrench : hex key
Spanner size : HEX 1.5mm;
 HEX 2mm;
 HEX 2.5mm;
 HEX 3mm;
 HEX 4mm;
 HEX 5mm;
 HEX 6mm;
 HEX 8mm;
 HEX 10mm

Kit: screwdriver bits; BAHCO



Kind of package : bag
Manufacturer : BAHCO
Material : steel
Overall len. : 25mm
Kind of bit : hex key, Phillips, Pozidriv®, slot, Torx®
Mounting : 1/4" (E6,3mm)
Bit size : PH2G
Kit : adapter 1/4" length 25mm for sockets;
 1/4" bits;
 universal 60 mm long magnetic holder 1/4" with hexagonal magnetic grip 1/4"-E6,3
Information : *more products from this series available on www.tme.eu*
Bit size : PH1, PZ1, PH2, PZ2, PH3, PZ3, 4.5x0.6mm, 5.5x0.8mm, TX15, TX20, TX27, TX30, HEX 3mm, HEX 4mm, HEX 5mm, HEX 6mm
Symbol Qty. in set Type of tools set
 [pcs.]
SA.59/S31B 31 screwdriver bits

Kit: screwdrivers; WIHA



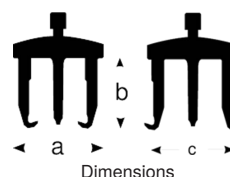
Operating voltage max. : 1kV AC
Kind of screwdriver : insulated
Manufacturer : WIHA
Conform to the norm : IEC 60900:2012
Kind of bit : Phillips, PlusMinus PZ-type, Pozidriv®, slot, Torx®
Bit size : PZ2/SL
Manufacturer series : SoftFinish®
Information : *more products from this series available on www.tme.eu*
Bit size : PH1, PZ1, PH2, PZ2, SL 3.5, SL 4, SL 5.5, SL 6.5, TX15, TX20, TX25
Blade material :
 — chrome vanadium molybdenum steel
Features :
 — two-component handle
 — ergonomic handle
 — black finished blade tip
 — reduced mandrel diameter
Symbol Tools set Quantity in set/package
 [pcs.]
WIHA.3201K12 screwdrivers 12

Taper reamer; ENGINEER



Manufacturer : ENGINEER
Type of tool : Taper reamer
Tool material : carbon steel
Features : enlarging of hole diameters in metal and plastic elements;
 designed for continuous enlarging of hole diameters
Symbol Blade hardness Tool length Working part len.
 [mm] [mm]
FUT.TR-11 55-58 HRC 127 81

Tool: bearing puller; BAHCO



Manufacturer : BAHCO
Type of tool : bearing puller
Features : thanks to the swiveling arms, the puller can be used as either external or internal;
 allows for precise removal of: wheels, bearings, etc.;
 the arms always grip in parallel
Tool material : alloy steel
Symbol Spanner size A dimension B dimension C dimension
 [mm] [mm] [mm] [mm]
SA.4532-B/100 17 25...130 100 80...180
SA.4532-B/200 17 25...130 200 80...180
SA.4532-C/150 22 50...160 150 105...220

Wrench; torque; WERA



Manufacturer : WERA
Type of tool : wrench
Kind of wrench : torque
Conform to the norm : DIN EN ISO 6789-1:2017-07
Symbol Mounting Torque Overall length Trade name
 [Nm] [mm]
WERA.TORQUE/A5 1/4" 2.5...25 290 Click-Torque A 5
WERA.TORQUE/A6 1/4" 2.5...25 290 Click-Torque A 6
WERA.TORQUE/B1 3/8" 10...50 360 Click-Torque B 1
WERA.TORQUE/B2 3/8" 20...100 405 Click-Torque B 2
WERA.TORQUE/C1 1/2" 10...50 360 Click-Torque C 1
WERA.TORQUE/C2 1/2" 20...100 405 Click-Torque C 2
WERA.TORQUE/C3 1/2" 40...200 510 Click-Torque C 3
WERA.TORQUE/C4 1/2" 60...300 595 Click-Torque C 4
WERA.TORQUE/C5 1/2" 80...400 680 Click-Torque C 5
WERA.05075630001 3/4" 200...1000 1250 Click-Torque E 1

Kit: pliers; insulated; KNP.002012; KNIPEX



Tools set : pliers

cont. on the next page

Kit: pliers; insulated; KNP.002012; KNIPEX (cont.)

Manufacturer	: KNIPEX
Tool material	: steel
Kind of pliers	: insulated
Kind of package	: cardboard packaging
Operating voltage max.	: 1kV AC
Conform to the norm	: EN 60900
Kit	: insulated side cutters, length 160 mm; insulated pliers, half-round, length 200 mm; insulated combination pliers, length 180 mm
Features	: anti-slip handles; ergonomic two-component handles; chrome plated head

Information : *more products from this series available on www.tme.eu*

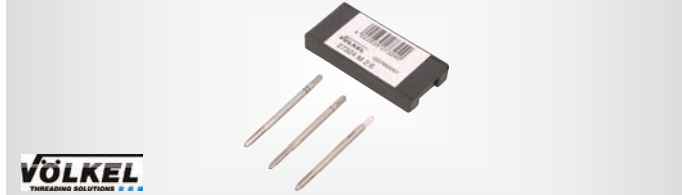
Symbol	Quantity in set/package
	[pcs.]
KNP.002012	3

Kit: pliers; universal; KNP.002010; KNIPEX

Manufacturer	: KNIPEX
Tools set	: pliers
Kind of pliers	: side, adjustable, universal
Symbol	Quantity in set/package
	[pcs.]
KNP.002010	3

Tool accessories: drill set; for metal; MTB.627151; METABO

Manufacturer	: METABO
Type of power tool accessories	: drill set
Kind of drill bit	: for metal
Drill diameter	: 1mm/1.5mm/2mm/2.5mm/3mm/3.5mm/4mm/4.5mm- /5mm/5.5mm/6mm/6.5mm/7mm/7.5mm/8mm- /8.5mm/9mm/9.5mm/10mm
Material	: high speed steel ruled HSS-R
Quantity in set/package	: 19pcs.
Symbol	Kind of package
MTB.627151	metal case

Tap; hand; VÖLKEL

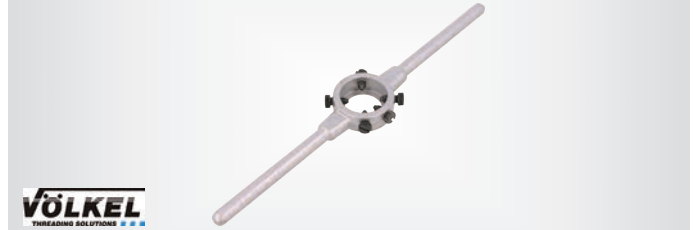
Manufacturer	: VÖLKEL			
Type of tool	: tap			
Material	: high speed steel grounded HSS-G			
Kind of holder	: hand			
Application	: for blind holes; to the through holes			
Quantity in set/package	: 3pcs.			
Conform to the norm	: DIN 352			
Information	: <i>more products from this series available on www.tme.eu</i>			
Symbol	Thread	Thread pitch	Length	Holder socket size
			[mm]	[mm]
VOLKEL-27304	M1,1	0.25	32	2.1
VOLKEL-27308	M1,4	0.3	32	2.1
VOLKEL-27312	M1,7	0.35	32	2.1
VOLKEL-27316	M2	0.4	36	2.1
VOLKEL-27326	M3	0.5	40	2.7

Symbol	Thread	Thread pitch	Length	Holder socket size
			[mm]	[mm]
VOLKEL-27330	M4	0.7	45	3.4
VOLKEL-27334	M5	0.8	50	4.9
VOLKEL-27338	M6	1	50	4.9
VOLKEL-27342	M8	1.25	56	4.9
VOLKEL-27348	M11	1.5	70	6.2
VOLKEL-27356	M15	2	80	9
VOLKEL-27374	M24	3	110	14.5
VOLKEL-27378	M30	3.5	125	18

Tool: threading die; VÖLKEL

Manufacturer	: VÖLKEL
Type of tool	: threading die
Material	: high speed steel
Conform to the norm	: DIN 223
Tolerance	: 6g
Information	: <i>more products from this series available on www.tme.eu</i>

Symbol	Thread	Thread pitch	Diameter	Thickness
			[mm]	[mm]
VOLKEL-27402	M1	0.25	16	5
VOLKEL-27406	M1,2	0.25	16	5
VOLKEL-27410	M1,6	0.35	16	5
VOLKEL-27414	M1,8	0.35	16	5
VOLKEL-27418	M2,2	0.45	16	5
VOLKEL-27424	M2,6	0.45	16	5
VOLKEL-27428	M3,5	0.6	20	5
VOLKEL-27432	M4,5	0.75	20	7
VOLKEL-27434	M5	0.8	20	7
VOLKEL-27435	M5	0.9	20	7
VOLKEL-27438	M6	1	20	7
VOLKEL-27442	M8	1.25	25	9
VOLKEL-27446	M10	1.5	30	11
VOLKEL-27454	M14	2	38	14
VOLKEL-27458	M16	2	45	18
VOLKEL-27470	M22	2.5	55	22
VOLKEL-27478	M30	3.5	65	25

Tool: diestock; VÖLKEL

Manufacturer	: VÖLKEL
Type of tool	: diestock
Conform to the norm	: DIN 225, DIN EN 22568
Application	: DIN 223
Material	: cast zinc
Information	: <i>more products from this series available on www.tme.eu</i>

Symbol	Diameter	Thickness	Length
	[mm]	[mm]	[mm]
VOLKEL-15003	20	7	200
VOLKEL-15005	30	11	280
VOLKEL-15006	38	10	315
VOLKEL-15007	38	14	315
VOLKEL-15008	45	14	450
VOLKEL-15009	45	18	450
VOLKEL-15011	55	22	560
VOLKEL-15013	65	25	630

Tool rucksack; for electricians; WIHA

Tools set : general purpose
 Manufacturer : WIHA
 Kind of package : tool rucksack
 Max. operating voltage : 1kV
 Kind of tool : insulated
 Conform to the norm : EN 60900,
 VDE
 Application : for electricians
 Kit : Allen keys;
 spirit level;
 folding ruler;
 insulated pliers(1kV), 3 pcs;
 insulated screwdrivers;
 stripping tool

Symbol	Quantity in set/package [pcs.]
WIHA.45528	28

Kit: for assembly work; for electricians; BM1814APL1; BM GROUP

Manufacturer : BM GROUP
 Application : for electricians
 Kind of package : case
 Kit : spanner set;
 screwdriver bits;
 locksmith hammer;
 cable ties 100 pcs;
 voltage tester;
 screwdriving grip;
 insulated pliers(1kV), 3 pcs;
 insulating tape 3pcs.;
 insulated screwdrivers

Symbol	Tools set	Quantity in set/package [pcs.]
BM1814APL1	for assembly work	40

Chest; Kind: tool case; IP55; X BLOCK LOG; KISTENBERG

Manufacturer : KISTENBERG
 Material : polymer
 Colour : black
 IP rating : IP55
 Manufacturer series : X BLOCK LOG
 Type of container : chest

Kind of container : tool case

Symbol Body dimensions Ver.

[mm]

KXB604020F-S411 546x380x194 -

KXB604030F-S411 546x380x307 -

KXB604040F-S411 546x380x407 -

KXB604045F-S411 546x380x400 with wheels

KXB604050FD-S411 546x380x510 with wheels

KXB604050F-S411 546x380x510 with wheels

Tool: measuring tape; MEDID

Manufacturer : MEDID
 Type of tool : measuring tape
 Enclosure material : ABS, elastolan

Symbol Width Length

[mm] [m]

MED.8193 19 3

MED.8255 25 5

MED.8308 30 8

Tool: calliper; with digital readouts; REN.6900001; RENNSTEIG

Manufacturer : RENNSTEIG
 Measuring range : 0...150mm
 Measurement accuracy : 0,01mm
 Application : for measuring cable connectors

Symbol Type of tool Ver.

REN.6900001 calliper with digital readouts

Tool: hammer; metalworks; BETA

Manufacturer : BETA
 Type of tool : hammer
 Application : metalworks
 Handle material : composite

Symbol Weight Overall len.

[g] [mm]

BE1370T/1000 100 360

BE1370T/300 300 300

BE1370T/500 500 320

Kit: general purpose; SA.S81MIX; BAHCO

Manufacturer : BAHCO

cont. on the next page

Kit: general purpose; SA.S81MIX; BAHCO (cont.)

Kit : rattle 1/2";
rattle 1/4";
combination spanners;
screwdriver bits;
6-angles sockets;
pliers for gripping;
side cutters

Symbol Tools set Quantity in set/package
[pcs.]

SA.S81MIX general purpose 81

Kit: general purpose; WERA.05136026001; WERA

Wera
BE A TOOL FISH!

Manufacturer : WERA

Kit : Allen keys;
combination spanners;
voltage tester;
screwdriving grip;
screwdrivers

Symbol Tools set Quantity in set/package
[pcs.]

WERA.05136026001 general purpose 15

Kit: for crimping push-on connectors, terminal crimping; KNIPEX

KNIPEX

Manufacturer : KNIPEX

Package : case

Information : more products from this series available on www.tme.eu

Symbol Type of tools set

KNP.979009 for crimping push-on connectors, terminal crimping

Tool: for crimping; cable ties; PANDUIT

PANDUIT

Manufacturer : PANDUIT

Tie material : plastic

Features : automatically cut off useless tie segment;
replaceable blade;
fitted with a graduated knob for adjusting tension force

Symbol Type of tool Application

GTS-E for crimping cable ties

Tool: knife; BESSEY

BESSEY

Manufacturer : BESSEY

Blade length : 28mm

Pliers/knives application : universal

Symbol Equipment Kind of package Type of tool

DBKPH-SET saw blade set case knife

Tool: cutters; for cutting iron, copper or aluminium sheet metal; BESSEY

BESSEY



Manufacturer : BESSEY

Type of tool : cutters

Application : for cutting iron, copper or aluminium sheet metal

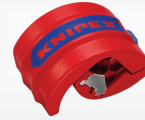
Manufacturer series : Erdi

Information : more products from this series available on www.tme.eu

Symbol	Length [mm]	Cut length [mm]	Thickness [mm]	Manufacturer's part number	Ver.
D39ASS	230	30	1.2	D39ASS	right
D39ASSL	230	30	1.2	D39ASSL	left
D116-260	260	30	0.8...1.2	D116-260	right
D116-260L	260	30	0.8...1.2	D116-260L	left
D116-280	280	34	0.8...1.2	D116-280	right
D116-280L	280	34	0.8...1.2	D116-280L	left
D118-300	300	-	0.8...1.2	D118-300	right
D118-300L	300	-	0.8...1.2	D118-300L	left
D15A	180	20	0.7...1	D15A	right
D15AL	180	20	0.7...1	D15AL	left
D118-350	350	-	1	D118-350	right

Tool: cutting machine; KNP.902210BK; KNIPEX

KNIPEX



Manufacturer : KNIPEX

Type of tool : cutting machine

Application : for cutting thin walled plastic pipes and flexible hoses

Product description : Cutting machine; plastic pipes Ø20÷50mm; BiX®

Cutting range : plastic pipes Ø20...50mm

Kit: files; Number of files: 6; BAHCO

BAHCO



Manufacturer : BAHCO

Kind of package : bag

Handle material : plastic

File cross-section shape : square, round, half circle, flat, flat pointed, triangle

Working part length : 100mm

Kind of file : planisher

Kind of cut : 3

Application : metal

Information : more products from this series available on www.tme.eu

Symbol Number of files Kit

SA.1-476-04-3-2 6 files

Lamp: inspection lamp; IP20; SCANGRIP

SCANGRIP
INNOVATION FROM DENMARK



Manufacturer : SCANGRIP

Type of lamp : inspection lamp

Luminosity : 40lm/400lm

Colour temp. : 6000K

Power supply : rechargeable battery 3.7V 1800mAh x1

Kit contents : cable

Mechanical impact resistance : IK07

IP rating : IP20

Nominal life : 20h

Operating temperature : -10...40°C

Maximum power : 2.5W

Number of operation modes : 2

Length : 260mm

Symbol Width Height

SCANGRIP-03.5666 34 15

Tools

Lamp: working; NightSearcher



Manufacturer : NightSearcher
 Type of lamp : working
 Luminosity : 2500lm
 IP rating : IP65
 Nominal life : 7.5h
 Engineering PN : HawkStar
Symbol Trade name
NSHAWKSTAR searchlight

Lamp: working; NightSearcher



Manufacturer : NightSearcher
 Type of lamp : working
 Mechanical impact resistance : IK07
 Number of operation modes : 3
 Features : with integrated tripod
 Nominal life : 5h
 Kit contents : carrying case

Symbol	Lumi- nosity [lm]	IP rating	Maximum height [mm]	Engineering PN
NSTOWERPRO-5K-EU	5000	IPX4	2000	Tower Pro 5K
NSTOWERPRO-7K	7000	IP54	1700	Tower Pro 7K
NSTOWERPRO-10K-EU	10000	IP54	2200	Tower Pro 10K

DELTA PLUS protective helmets



Manufacturer : DELTA PLUS
 OSH component : protective helmet
 Manufacturer series : QUARTZ UP III
 Material : polypropylene
 Resistance to : UV rays, molten metal particle splash (MM)
 Operating temperature : -30...50°C
 Conform to the norm : CE,
 EN 397
 Version : adjustable
Information : *more products from this series available on www.tme.eu*

Symbol	Colour
DEL-QUARUP3BC	white
DEL-QUARUP3BL	blue
DEL-QUARUP3OR	orange

Ear defenders



Manufacturer : 3M
 OSH component : ear defenders

Symbol	Attenuation level [dB]	Manufacturer series	Version
3M-PELTOR-II	31	PELTOR Optime II	-
3M-PELTOR-X4	33	PELTOR X4	-
3M-7000039616	27	PELTOR Optime I	-
3M-7000039617	26	PELTOR Optime I	helmet mounted
3M-7000039621	30	PELTOR Optime II	helmet mounted
3M-7000039622	35	PELTOR Optime III	-
3M-7000039624	34	PELTOR Optime III	helmet mounted
3M-7000103987	27	PELTOR X1	-
3M-7000103989	31	PELTOR X2	-

Symbol	Attenuation level [dB]	Manufacturer series	Version
3M-7000103991	33	PELTOR X3	-
3M-7000103995	37	PELTOR X5A	-
3M-7000107763	30	PELTOR Optime II	helmet mounted

Dust respirator; Series: 7500; 3M



Manufacturer : 3M
 OSH component : dust respirator
 Manufacturer series : 7500
 Conform to the norm : EN 140:1998/CE
 Related items : 3M-7000029734, 3M-7000029735, 3M-7000032083, 3M-7000034747, 3M-7000034749, 3M-7000034751, 3M-7000052348

Symbol	Size
3M-7000104176	S
3M-7000104177	M
3M-7000104178	L

Safety spectacles; HELIUM 2; DELTA PLUS; Net weight: 18g



Manufacturer : DELTA PLUS
 OSH component : safety spectacles
 Conform to the norm : CE,
 EN 166:2001,
 EN 170:2002
 Resistance to : UV rays, impact, scratch
 Optical classes : 1
 Manufacturer series : HELIUM 2
 Net weight : 18g

Symbol	Lens
DEL-HELI2BB	brown
DEL-HELI2DE	blue
DEL-HELI2FU	darkened
DEL-HELI2IN	transparent

Safety goggles



Manufacturer : 3M
 OSH component : safety goggles
 Optical classes : 1
 Lens : transparent
 Manufacturer series : 2890
 Resistance to : hot metal splashes
 Features : anti-fog coating and a scratch

Symbol	Version
3M-7000032480	vented
3M-7000061924	sealed
3M-7100146291	sealed
3M-7100146292	vented

Protective gloves; LAHTI PRO



LAHTI PRO

Manufacturer	: LAHTI PRO
OSH component	: protective gloves
Material	: natural leather
Conform to the norm	: CE
Colour	: black
Symbol	Size
LAHTI-L270808K	8
LAHTI-L270809K	9
LAHTI-L270810K	10
LAHTI-L270811K	11

Material	: cotton, polyester
Grammage	: 245g/m ²
Features	: pocket x5
Conform to the norm	: CE
Information	: more products from this series available on www.tme.eu
Symbol	Size
LAHTI-LPAB64S	S (164/84-88)
LAHTI-LPAB70M	M (170/92-96)
LAHTI-LPAB76L	L (176/100-104)
LAHTI-LPAB76XL	XL (176/108-112)
LAHTI-LPAB822XL	XXL (182/116-120)
LAHTI-LPAB882XL	XXL (188/116-120)
LAHTI-LPAB943XL	XXXL (194/126-130)

Protective gloves; LAHTI PRO



LAHTI PRO

Manufacturer	: LAHTI PRO
OSH component	: protective gloves
Colour	: black-navy blue
Material	: latex, polyamide
Conform to the norm	: CE, EN 420:2003+A1:2009
Symbol	Size
LAHTI-L211707K	7
LAHTI-L211708K	8
LAHTI-L211709K	9
LAHTI-L211710K	10
LAHTI-L211711K	11

Protective vest; Allton; LAHTI PRO



LAHTI PRO

Manufacturer	: LAHTI PRO
OSH component	: protective vest
Manufacturer series	: Allton
Conform to the norm	: CE
Ver.	: without a hood
Material	: cotton, polyester
Features	: pocket x8
Grammage	: 245g/m ²
Information	: more products from this series available on www.tme.eu
Symbol	Size
LAHTI-LPAK1S	S
LAHTI-LPAK1L	L
LAHTI-LPAK1M	M
LAHTI-LPAK1XL	XL
LAHTI-LPAK12XL	XXL
LAHTI-LPAK13XL	XXXL

Reflection waistcoat; yellow; LAHTI PRO



LAHTI PRO

Manufacturer	: LAHTI PRO
OSH component	: reflection waistcoat
Colour	: yellow
Conform to the norm	: CE, EN ISO 13688, EN ISO 20471
Mounting	: bur
Material	: polyester
Features	: reflective bands x4
Symbol	Size
LAHTI-L4132201	S
LAHTI-L4132202	M
LAHTI-L4132203	L
LAHTI-L4132204	XL
LAHTI-L4132205	XXL
LAHTI-L4132206	XXXL

Dungarees; Allton; LAHTI PRO



LAHTI PRO

Manufacturer	: LAHTI PRO
OSH component	: dungarees
Manufacturer series	: Allton
Trade name	: protective bib pants
Material	: cotton, polyester
Grammage	: 245g/m ²
Conform to the norm	: CE
Features	: pocket x7
Symbol	Size
LAHTI-LPAO64S	S (164/72-76)
LAHTI-LPAO70M	M (170/82-86)
LAHTI-LPAO76L	L (176/90-94)
LAHTI-LPAO822XL	XXL (182/106-110)

Sweatshirt; Allton; LAHTI PRO



LAHTI PRO

Manufacturer	: LAHTI PRO
OSH component	: sweatshirt
Ver.	: without a hood
Manufacturer series	: Allton

cont. on the next page

Dungarees; Allton; LAHTI PRO (cont.)

Symbol	Size
LAHTI-LPA0882XL	XXL (188/106-110)
LAHTI-LPA0943XL	XXXL (194/116-120)

Dungarees; Allton; LAHTI PRO



Manufacturer : LAHTI PRO
 OSH component : dungarees
 Manufacturer series : Allton
 Material : cotton, polyester
 Grammage : 245g/m²
 Features : pocket x5
 Conform to the norm : CE
Information : *more products from this series available on www.tme.eu*
Symbol Size

LAHTI-LPAS64S	S (164/72-76)
LAHTI-LPAS70M	M (170/82-86)
LAHTI-LPAS76L	L (176/90-94)
LAHTI-LPAS76XL	XL (176/98-102)
LAHTI-LPAS822XL	XXL (182/106-110)
LAHTI-LPAS943XL	XXXL (194/116-120)

Protective shorts; Allton; LAHTI PRO



Manufacturer : LAHTI PRO
 OSH component : protective shorts
 Manufacturer series : Allton
 Grammage : 245g/m²
 Material : cotton, polyester
 Conform to the norm : CE
 Trade name : cropped pants
 Features : pocket x7
Information : *more products from this series available on www.tme.eu*
Symbol Size

LAHTI-L1714012	S
LAHTI-L1714013	M
LAHTI-L1714014	L
LAHTI-L1714015	XL
LAHTI-L1714016	XXL
LAHTI-L1714017	XXXL

Protective shorts; Ver.: short; Allton; LAHTI PRO



Manufacturer : LAHTI PRO
 OSH component : protective shorts
 Material : cotton, polyester

Features : pocket x7
 Manufacturer series : Allton
 Grammage : 245g/m²
 Conform to the norm : CE
 Ver. : short
Information : *more products from this series available on www.tme.eu*
Symbol Size

LAHTI-LPAS1S	S
LAHTI-LPAS1L	L
LAHTI-LPAS1M	M
LAHTI-LPAS1XL	XL
LAHTI-LPAS12XL	XXL
LAHTI-LPAS13XL	XXXL

Shoes; LAHTI PRO; Version: without toecap



Manufacturer : LAHTI PRO
 OSH component : shoes
 Ver. : without toecap
 Resistance to : bad weather, slip
 Colour : bronze
 Material : leather
 Conform to the norm : CE,
 EN ISO 20347:2012

Symbol	Size	Symbol	Size
LAHTI-L3041539	39	LAHTI-L3041543	43
LAHTI-L3041540	40	LAHTI-L3041545	45
LAHTI-L3041541	41	LAHTI-L3041546	46
LAHTI-L3041542	42	LAHTI-L3041547	47

Shoes; with metal toecap; BETA



Manufacturer : BETA
 OSH component : shoes
 Colour : grey-black
 Material : leather
 Ver. : with metal toecap
 Application : construction, logistics, light industry, services, in agriculture
 Resistance to : slip, most of oils, most of solvents
 Conform to the norm : CE,
 EN ISO 20345:2011

Manufacturer series : 7246E

Symbol	Size	Symbol	Size
BE7246E/35	35	BE7246E/42	42
BE7246E/36	36	BE7246E/43	43
BE7246E/37	37	BE7246E/44	44
BE7246E/38	38	BE7246E/45	45
BE7246E/39	39	BE7246E/46	46
BE7246E/40	40	BE7246E/47	47
BE7246E/41	41	BE7246E/48	48

Antistatic protection

Mat: floor; ESD; ELME



Manufacturer : ELME
 Type of mat : floor

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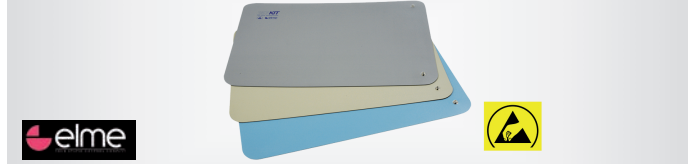
Mat: floor; ESD; ELME (cont.)

Surface resistance : 5...500MΩ
 Mat-to-earth resistance : 5...500MΩ
 Discharge time : <0,5 s
 Resistance to : abrasion
 Version : ESD
 Cable length : 3m
 Kind of cord termination : ring terminal 5mm, female press stud 10mm
 Features : consist of two rubber layers: dispersing and electric charges conducting;
 does not need to use adhesive when is laid on the floor;
 once laid can be used in other places;
 fitted with two 10mm male press studs

Equipment : ground/earth cable
Symbol Colour Width Length Thickness

ESD-CUT-FLGREY	grey	1.2	1.9	2.5
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Mat: bench; ESD; ELME



Manufacturer : ELME
 Type of mat : bench
 Max ambient temperature : 440°C
 Surface resistance : 5...500MΩ
 Mat-to-earth resistance : 5...500MΩ
 Discharge time : <34 ms (5000V-50V), <9 ms (5000V-500V)
 Resistance to : most of oils, most of chemical compounds
 Version : ESD
 Features:
 — sound-absorbent quality
 — PVC free
 — light-dispersing surface
 — consist of two rubber layers: dispersing and electric charges conducting
 — fitted with two 10mm male press studs
 — easy to keep the cleanness due to smooth surface

Symbol Colour L. Width Thickness

	Colour	L. [m]	Width [m]	Thickness [mm]
ESDMAT-CUTBLUE	blue	0.6	0.4	2
ESDMAT-CUTBEIGE	beige	0.6	0.4	2
ESDMAT-CUTGREY	grey	0.6	0.4	2
ESDMAT-60X90BL	blue	0.9	0.6	2
ESDMAT-60X90BG	beige	0.9	0.6	2
ESDMAT-60X90GR	grey	0.9	0.6	2
ESDMAT-60X120BL	blue	1.2	0.6	2
ESDMAT-60X120BG	beige	1.2	0.6	2
ESDMAT-60X120GR	grey	1.2	0.6	2

Protective cover shoes; ESD; disposable; ELME



Manufacturer : ELME
 Type of antistatic accessories : protective cover shoes
 Colour : blue (bright)
 Version : ESD
 Features:
 — antislip (CSHOES-ESD)
 — disposable
 — conductive straps designed for draining electrostatic charges (CSHOES-ESD)
 — on shoes (CSHOES)

Symbol	Dimensions [mm]	Thickness [µm]	Material	Conform to the norm
CSHOES-ESD	150x410	30	polypropylene	EN 61340-5-1, IEC 61340-5-1
CSHOES	150x410	30	polyethylene	-

Wristband; ESD; antiallergic; ANTISTAT



Manufacturer : ANTISTAT
 Type of antistatic accessories : wristband
 Resistance : 1MΩ
 Length of the lengthen coiled cord : 1.83m
 Version : ESD
 Features : antiallergic
 Standard equipment : wristbands;
 ground/earth cable

Symbol	Kind of cord termination	Kind of connector
ATS-066-00053	banana 4mm plug, crocodile clip, female press stud 4mm	press stud male 4mm
ATS-066-00053	banana 4mm plug, crocodile clip, female press stud 10mm	-
ATS-066-00055	female press stud 10mm x2	press stud male 10mm

ESD shoe grounder; ESD; ELME



Manufacturer : ELME
 Type of antistatic accessories : ESD shoe grounder
 Resistance : 1MΩ
 Colour : black, yellow
 Version : ESD
 Features:
 — disposable
 — self-adhesive polyester conductive straps designed for draining electrostatic charges, fastened on a shoes

Symbol	Product description
BAND-F1	ESD shoe grounder;ESD;black,yellow;1MΩ

Protective gloves; ESD; ANTISTAT



Manufacturer : ANTISTAT
 Type of antistatic accessories : protective gloves
 Surface resistance : <100MΩ
 Material : polyamide
 Version : ESD
 Quantity in set/package : 2pcs.
Symbol : ATS-109-0003-P, ATS-109-0004-P, ATS-109-0005-P, ATS-109-0006-P
 Features : inside gloves coated with a layer of polyurethane
Symbol : ATS-109-0007-P, ATS-109-0008-P, ATS-109-0013-P, ATS-109-0014-P
 Features : protection against sharp edges;
 dissipative;
 multi-stage filter system;
 with polyurethane coating on the finger tip section

Symbol	Size	Colour	Symbol	Size	Colour
ATS-109-0003-P	S	white	ATS-109-0007-P	S	white
ATS-109-0004-P	M	white	ATS-109-0008-P	M	white
ATS-109-0005-P	L	white	ATS-109-0013-P	L	white
ATS-109-0006-P	XL	white	ATS-109-0014-P	XL	white

Tape: warning; ELME



Manufacturer : ELME
 Type of tape : warning
 Application : for gluing on floor to mark protection areas

cont. on the next page

Antistatic protection

Tape: warning; ELME (cont.)

Symbol	Length [m]	Width [mm]	Thickness [μm]	Material
ESD-TAPE1	33	50	95	PVC

Brush; ESD; EUROSTAT GROUP



Manufacturer : EUROSTAT GROUP
 Antistatic accessories : brush
 Material : polypropylene conductive, electrically conductive material
 Version : ESD

Features : prevent from accumulation of electrostatic charges

Symbol	Length [mm]	Bristle length [mm]	Features
ERS-410990080	122	17	soft bristles
ERS-410990081	148	17	soft bristles
ERS-410990096	92	21	hard bristles
ERS-410990094	175	16	hard bristles
ERS-410990093	180	16	hard bristles
ERS-410990095	225	20	hard bristles

Air ionizer; ESD; PANASONIC



Manufacturer : PANASONIC
 Type of antistatic accessories : air ionizer
 Kind of ionizer : bench
 Ion balance : ±10V
 Efficiency : 220.8m³/h
 Peripheral speed : ≤5.3m/s
 Decay time : 1s/200mm
 Supply voltage : 24V DC
 Additional functions : LED status indicator
 Version : ESD

Symbol	Diameter [mm]	Body dimensions [mm]
ER-F12	120	142x150x60

Related articles:

Symbol	Product description
ER-F12FX5	Spare part:filter;ESD;Application:air ionizer

Protection bag; ESD; EUROSTAT GROUP



Manufacturer : EUROSTAT GROUP
 Type of antistatic accessories : protection bag
 Surface resistance : < 100GΩ
 Material : polyethylene
 Colour : pink
 Ver. : ESD

Symbol	Width [mm]	Length [mm]	Thickness [μm]	Closing system
ERS-200100006	76	80	50	self-seal
ERS-200140006	76	100	90	self-seal
ERS-20013003	76	102	90	for welding
ERS-200070305	76	127	50	for welding
ERS-200110305	76	127	90	for welding
ERS-200120305	76	127	90	self-seal
ERS-200080406	102	152	50	self-seal
ERS-200120406	102	152	90	self-seal
ERS-200070508	127	203	50	for welding
ERS-200110508	127	203	90	for welding
ERS-200080610	152	254	50	self-seal
ERS-200070810	203	254	50	for welding
ERS-200110812	203	305	90	for welding
ERS-200120812	203	305	90	self-seal
ERS-200071012	254	305	50	for welding
ERS-200081012	254	305	50	self-seal

ERS-200120406	102	152	90	self-seal
	[mm]	[mm]	[μm]	
ERS-200100007	254	356	50	self-seal
ERS-200111214	305	356	90	for welding
ERS-200111216	305	406	90	for welding
ERS-200121216	305	406	90	self-seal
ERS-200071620	406	508	50	for welding
ERS-200111620	406	508	90	for welding

Chest; ESD; STATICTEC



Manufacturer : STATICTEC
 Type of container : chest
 Material : electrically conductive material
 Colour : black, yellow
 Ver. : ESD
 Features : portable tray lifting;
 conductive
 Symbol Product description
 PRT-ST51500 Container:chest;tool case;ESD;black,yellow;350x180x150mm



Connectors

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Data connectors	110
Industrial connectors	111
Power connectors	123
Soldering connectors and terminals	129

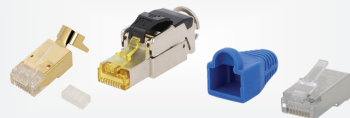
Data connectors

Plug; RJ45; HIROSE



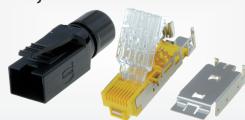
Pin configuration : 8p8c
 Cat. : Cat 5e
 Manufacturer series : TM21P
 Type : shielded; with protection; with conductor guide
Symbol Colour
TM21P-88P-03 black
TM21P-88P-04 light grey

Plug; RJ45; LOGILINK



Electrical mounting : crimped
 Type : shielded
Symbol Ethernet category Type Contact plating
LOG-MP0021 Cat 6 with protection -
LOG-MP0012 Cat 5e with protection gold-plated
LOG-MP0004 Cat 5e -

Plug; RJ45; shielded; HARTING



Type : shielded
Symbol Cat. Size Electrical mounting
09451511525 Cat 6a 28AWG...24AWG IDC
09455451561 Cat 6 28AWG...24AWG without tools, IDC
20821040001 Cat 6a - without tools, IDC

Patch panel; RJ45; LOGILINK



Type of connector : RJ45
 Connector : patch panel
Symbol Ethernet category Number of ports Colour Electrical mounting
LOG-NP0016A Cat 6 8 grey IDC
LOG-NP0017B Cat 6 8 black -
LOG-NP0019B Cat 6a 12 black IDC

D-Sub; PROFIBUS; HELUKABEL



Mechanical mounting : for cable
 Number of pins : 9
 Type : PROFIBUS
 Application : solid wire
Symbol Application Electr. mounting
PFB-AX-SK-SOL SK/FC cable IDC
PFB-AX-S strand screw terminal
PFB-90-SK-SOL SK/FC cable IDC

Complete set; D-Sub; MH CONNECTORS



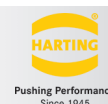
Electr. mounting : soldering
 Mechanical mounting : for cable
 Connector : plug
 Enclosure material : plastic
 Type : shielded; stamped and formed contacts
 Spatial orientation : angled 45°
 Manufacturer series : MHD45PK
Symbol Number of pins Kind
MHD45PK9-DB9P-K 9 male
MHD45PK9-DB9S-K 9 female
MHD45PK15-DB15PK 15 male
MHD45PK15-DB15SK 15 female
MHD45PK25-DB25PK 25 male
MHD45PK25-DB25SK 25 female

Connector; Single Pair Ethernet; HARTING



Type of connector : Single Pair Ethernet
 Manufacturer series : T1 Industrial
Symbol Kind Connector Mechanical mounting
09451812800XL male plug for cable
09452812800333 female socket on PCBs

Plug; ix Industrial; HARTING



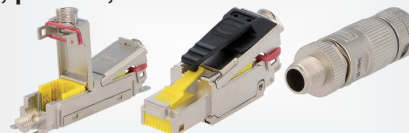
Type of connector : ix Industrial
 Pin : 10
Symbol Electrical mounting Wire size Type
09451812561XL IDC 28AWG...26AWG A
09451819000XL soldering 28AWG...22AWG B

Socket; ix Industrial; HARTING



Type of connector : ix Industrial
 Pin : 10
Symbol Type Spatial orientation
09452812561 A horizontal
09452812562 A vertical
09452819000 B side, vertical
09452819001 B horizontal
09452819002 B vertical

Connector; preLink; HARTING



Manufacturer series : preLink
Symbol Type of connector
20820000001 terminal module
20820050001 M12
20821010001 wire-wire
20821010010 RJ45

Industrial connectors

Plug; M8; HARTING



Connector : plug
Mechanical mounting : for cable

Symbol	No. of pins	Electrical mounting	Kind
21021511405	4	IDC (HARAX®)	male
21023592301	3	screw terminal	female
21023594401	4	screw terminal	female

Plug; M8; AMPHENOL LTW

Amphenol LTW



Connector : plug
Electrical mounting : screw terminal
IP rating : IP67

Symbol	Kind	No. of pins	Locking system
8P-04BFFB-SL7001	female	4	internal thread, threaded joint
8P-04BMMB-SL7001	male	4	external thread, threaded joint
8P-03BMMB-SL7001	male	3	external thread, threaded joint

Plug; M8; IFM ELECTRONIC



Orientation : straight
Kind : male

Symbol	Electrical mounting	No. of pins
E11255	screw terminal	4
E11550	IDC	3

Plug; M8; TE Connectivity



IP rating : IP67
Polarisation : A code - DeviceNet / CANopen
Electrical mounting : screw terminal

Symbol	No. of pins	Kind	Orientation	Ø _{ext. cable} [mm]
T4011019031-000	3	male	straight	3.5...5
T4011019041-000	4	male	straight	3.5...5
T4012008041-000	4	female	angled 90°	3.5...4.8
T4012019031-000	3	female	angled 90°	3.5...5

Plug; M8; BULGIN



IP rating : IP67

Symbol	Kind	No. of pins
PXMBNI08FBF04ASC	female	4
PXMBNI08FIM04ASC	male	4

Plug; M8; MURRELEKTRONIK



IP rating : IP67
No. of pins : 3

Symbol	Kind	Electrical mounting	Type
7000-08331-0000000	male	IDC	-
7000-08371-0000000	female	IDC	-
7000-08401-0000000	male	soldering	-
7000-08641-0000000	male	screw terminal	shielded
7000-08661-0000000	female	screw terminal	shielded

Plug; with leads; M8; AMPHENOL LTW

Amphenol LTW



IP rating : IP67

Symbol	No. of pins	Kind	U _{rated} [V]	Cable len. [m]
8-03AFFM-SL7A01	3	female	60	1
8-03AFFM-SL7A02	3	female	60	2
8-04AFFM-SL7A05	4	female	30	5
8-04AMMM-SL7A05	4	male	30	5

Plug; with lead; M8; MOLEX

molex



IP rating : IP67

Manufacturer series : Nano-Change

Symbol	Orientation	No. of pins	Cable length [m]
MX-120027-0092	angled 90°	3	5
MX-120086-8669	angled 90°	3	5
MX-120027-0129	straight	4	5
MX-120027-0154	angled 90°	4	10

Plug; with lead; M8; HARTING



Type : with lead

Connector : plug

Symbol	No. of pins	Kind	Cable length [m]	Orientation
21348300380075	3	female	7.5	angled 90°
21348300489020	4	female	2	angled 90°
21348000481005	4	male	0.5	straight
21348100481005	4	female	0.5	straight

Plug; with lead; M8; BULGIN



IP rating : IP67

Symbol	Orientation	Kind
PXPPVC08FBF04AC010	straight	female
PXPPVC08FIM04AC010	straight	male
PXPPVC08RAF04AC010	angled	female

Cable; for sensors/automation; M8; HARTING



Connector : plug

Type of cable : for sensors/automation

Symbol	Structure	No. of pins	Cable length [m]
21348081388050	M8 male; M8 female	3	5
21348081489015	M8 male; M8 female	4	1.5
21348083380075	M8 male; M8 female angled	3	7.5
21348083388015	M8 male; M8 female angled	3	1.5

Industrial connectors

Socket; M8; HIRSCHMANN



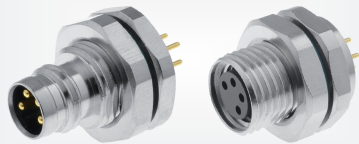
Mechanical mounting : for panel mounting, screw

Type : with leads

IP rating : IP67

Symbol	Number of pins	Kind
ELKE3308VFM	3	female
ELST3308RVFM	3	male
ELKE4408VFM	4	female
ELST4408RVFM	4	male

Socket; M8; LUMBERG AUTOMATION



Connector : socket

Mech. mounting : for panel mounting, screwed

Symbol	Electr. mounting	Kind	No. of pins	Cable len. [m]
RKMHL3/S5.5	THT	female	3	-
RKMHL4/S5.5	THT	female	4	-
RSMHL3/S5.5	THT	male	3	-
RSMHL4/S5.5	THT	male	4	-
RSMF4/0.5M	cables	male	4	0.5
RKMF3/0.5M	cables	female	3	0.5

Socket; M8; HARTING



Pushing Performance Since 1945



Symbol	Pin	Polarisation	Spatial orientation
2142000005	4	D code - Ethernet	straight
2142000014	4	D code - Ethernet	straight
2142000019	4	D code - Ethernet	angled 90°
2142000020	4	D code - Ethernet	angled 90°

Plug; M12; HARTING



Pushing Performance Since 1945

Symbol	Number of pins	Kind	Polarisation	Orientation
21032121305	4	male	A code - DeviceNet / CANopen	straight
21032962505	5	female	L code - Power	straight
21033192801	8	female	A code - DeviceNet / CANopen	straight
21033892402	4	female	D code - Ethernet	straight
21038122511	5	female	A code - DeviceNet / CANopen	straight

Plug; M12; CONEC



Electr. mounting : screw terminal

Symbol	No. of pins	Kind	Polarisation
43-00092	4	female	A code - DeviceNet / CANopen
43-00098	5	female	A code - DeviceNet / CANopen
43-00104	4	male	A code - DeviceNet / CANopen
43-00136	4	female	B code - Profibus

Plug; M12; MOLEX



Polarisation : A code - DeviceNet / CANopen

Manufacturer series : Micro-Change

Symbol	Ø _{ext. cable} [mm]	Orientation	No. of pins
MX-1200710043	4.1...8.1	straight	5
MX-1200710037	3.3...6.6	angled 90°	4
MX-1200710041	3.3...6.6	straight	5
MX-1200710036	4.1...8.1	straight	4

Plug; M12; MURRELEKTRONIK



Electrical mounting : screw terminal

Symbol	No. of pins	Kind	Polarisation
7000-12861-0000000	4	male	A code - DeviceNet / CANopen
7000-13381-0000000	5	female	A code - DeviceNet / CANopen
7000-14015-0000000	2	male	B code - Profibus
7000-14025-0000000	2	female	B code - Profibus

Plug; M12; DEGSON ELECTRONICS



Polarisation : A code - DeviceNet / CANopen

Locking : external thread, threaded joint

Symbol	Mounting	Orientation	Pin	U _{rated} [V]	I _{nom} [A]
SM12-CRP-A4Q-1B7	screw terminal	angled 90°	4	250	4
SM12-CRP-A4Q-1D9	screw terminal	angled 90°	4	250	4
SM12-CRP-A8Q-1B7	screw terminal	angled 90°	8	30	2
SM12-CRP-A8Q-1D9	screw terminal	angled 90°	8	30	2
SM12-CVC-A4M-1B9	soldering	straight	4	250	4

Plug; M12; LUTRONIC



Kind : male

Electrical mounting : screw terminal

Polarisation : A code - DeviceNet / CANopen

IP rating : IP67

Symbol	Ø _{ext. cable} [mm]	U _{rated} [V]	Pin
1250-04-T7	3...6.5	125	4
1250-04-T9	4...8	125	4
1250-05-T7	3...6.5	30	5
1250-05-T9	4...8	30	5
1250-03-T7	3...6.5	125	3

Plug; with lead; M12; MOLEX



IP rating : IP67

Type : with strain relief; with lead

Manufacturer series : Micro-Change

Polarisation : A code - DeviceNet / CANopen

Kind : female

Locking : internal thread, threaded joint

Symbol	U _{rated} [V]	No. of pins	Cable len. [m]	Orientation	Wire insul. mat.
MX-120060021	250	4	2	angled 90°	PVC

cont. on the next page

Plug; with lead; M12; MOLEX (cont.)

Symbol	U _{rated} [V]	No. of pins	Cable len. [m]	Orientation	Wire insul. mat.
MX-1200060015	250	4	5	straight	PVC
MX-120065-2254	250	4	10	straight	polyurethane thermoplastic TPE-U
MX-120065-9520	60	5	5	straight	polyurethane thermoplastic TPE-U

Plug; with lead; M12; HARTING



Symbol	Pin	Kind	Spatial orientation	Cable len. [m]
21348400383005	3	male	straight	0.5
21348400882010	8	male	straight	1
21348700C79100	12	female	angled 90°	10
21349300477010	4	female	straight	1

Cable; for sensors/automation; M12; MOLEX



Connector : plug
Type of cable : for sensors/automation
Structure : M12 male

Symbol	Structure	Polarisation	No. of pins	Len. [m]
MX-120066-8347	M12 female	A code - DeviceNet / CANopen	5	10
MX-120066-8821	M12 female	A code - DeviceNet / CANopen	4	5
MX-120098-0007	M12 female	B code - Profibus	5	2
MX-120087-8038	M8 female	A code - DeviceNet / CANopen	3	0.6

Socket; M12; AMPHENOL LTW



Symbol	Kind	Pin	Electrical mounting
12-03PFFS-SF8001	female	3	soldering
12-03PMMP-SF8001	male	3	THT
12-03PMMS-SH8001	male	3	soldering
12-04PFFS-SH8001	female	4	soldering
12-04PMMS-SH8001	male	4	soldering
12-05PFFS-SF8001	female	5	soldering
12-05PFFS-SH8001	female	5	soldering

Socket; M12; HARTING



Symbol	Pin	Kind	Polarisation
21033111501	5	male	A code - DeviceNet / CANopen
21033712403	4	female	D code - Ethernet
21033961530	5	male	L code - Power
21033961531	5	male	L code - Power

Socket; M12; with isolation transformer; HARTING



Electrical mounting : SMT
Mechanical mounting : for panel mounting, rear side nut
IP rating : IP65, IP67

Symbol	Polarisation	No. of pins	Orientation	Cat.
21033812421	D code - Ethernet	4	straight	Cat 5, Class D
21033814422	D code - Ethernet	4	angled	Cat 5, Class D
21033812825	X code - ProfiNET	8	straight	Cat 6a, Class EA
21033814827	X code - ProfiNET	8	angled	Cat 6a, Class EA

Socket; M12; CONEC



Symbol	Polarisation	Pin	Kind
43-01013	A code - DeviceNet / CANopen	5	male
43-01033	A code - DeviceNet / CANopen	5	male
43-01098	A code - DeviceNet / CANopen	8	female
43-01229	D code - Ethernet	4	female

Adapter; M12; AMPHENOL



Polarisation : D code - Ethernet
No. of pins : 4
Orientation : straight
Manufacturer : AMPHENOL
Structure : M12 female; RJ45 plug

Symbol	Cable length [m]
P29930-M1	1
P29930-M2	2
P29930-M5	5

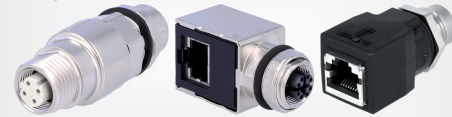
Adapter; M12; AMPHENOL LTW



Type of transition : adapter
Mechanical mounting : for panel mounting, front side nut, screwed
Structure : RJ45 socket

Symbol	Cat.	Polarisation	No. of pins	Structure	Orientation
RJS-12D04FM-LS8001	Cat 5e	D code - Ethernet	4	M12 male	straight
RJS-12D04FM-RS8001	Cat 5e	D code - Ethernet	4	M12 male	angled 90°
RJS-12D04FF-LS8001	Cat 5e	D code - Ethernet	4	M12 female	straight
RJS-12D04FF-RS8001	Cat 5e	D code - Ethernet	4	M12 female	angled 90°
RJS-12X08FF-LS7001	Cat 6a	X code - ProfiNET	8	M12 female	straight
RJS-12X08FF-RS7001	Cat 6a	X code - ProfiNET	8	M12 female	angled 90°

Adapter; M12; HARTING



Symbol	Mech. mounting	Structure
21033816815	for cable	M12 female X coded; both sides
21033816401	for cable	M12 female D coded; both sides
21033814800	for panel mounting	M12 female X coded; RJ45 socket
21033812800	for panel mounting	M12 female X coded; RJ45 socket

Splitter; M12; AMPHENOL LTW



IP rating : IP67
Polarisation : A code - DeviceNet / CANopen

Symbol	Type	Inputs	Cable len. [m]
DB125A4CABDPS7B03	with LED; with lead	4	3
DB125A4CAB-DPS7B05	with LED; with lead	4	5
DB125A8CABDPS7B01	with LED; with lead	8	1
DB125A8CABDPS7B03	with LED; with lead	8	3

Splitter; M12



Type of transition : splitter
 Manufacturer : WEIDMÜLLER
 Input : M12 female socket
 Number of outputs : 1

Symbol	Inputs	No. of pins
SAI-4-M-5P-M12	4	4
SAI-8-M5PM12	8	5

Type of connector : M16
 Electrical mounting : soldering
 Manufacturer series : C091A

Symbol	No. of pins	Kind	Panel thick. [mm]
C091-T3262-000	3	male	max. 3.5
C091-T3302-000	4	male	max. 3.5
C091-T3363-010	5	female	max. 5
C091-T3402-000	6	male	max. 3.5

Terminator; M12; LAPP



Connector : terminator

Symbol	Polarisation	Locking system	No. of pins
22260722	B code - Profibus	external thread	4
22260766	A code - DeviceNet / CANopen	internal thread	4
22261001	B code - Profibus	external thread	5

Socket; M16; LUMBERG



Contact plating : gold flash

Symbol	Kind	No. of pins	IP rating	U _{rated} [V]	Electr. mounting
0304-03	female	3	IP68	250	soldering
0304-06	female	6	IP68	250	soldering
0304-08	female	8	IP68	60	soldering
0317-06	male	6	IP68	300	THT
KFV-80	female	8	IP40	60	soldering

Accessories; M12; AMPHENOL LTW



Polarisation : A code - DeviceNet / CANopen
 Type of transition : T adapter
 No. of pins : 4
 Orientation : T

Symbol	Structure
SS040404-MFM-TS001	M12 female socket; M12 male x2
SS040404-MMM-TS001	M12 male x3

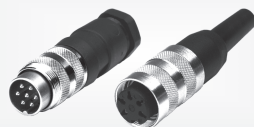
Plug; M23; BINDER



Manufacturer series : 623
 IP rating : IP67
 Electrical mounting : soldering

Symbol	Kind	Pin	Type
99-4645-00-06	male	6	shielded
99-4623-00-16	male	16	shielded
99-4647-00-19	male	19 (16+3)	shielded
99-4636-00-06	female	6	unshielded
99-4650-00-06	female	6	shielded

Plug; M16; AMPHENOL



Electrical mounting : soldering
 Mechanical mounting : for cable
 Manufacturer series : C091A
 Kind : male
 Cond. cross sec. : 0.5mm²

Symbol	No. of pins
C091-T3300-001	4
C091-T3360-020	5
C091-T3475-002	7

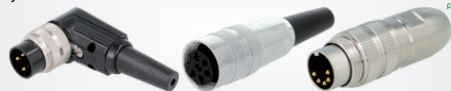
Plug; M23; LAPP



Electrical mounting : soldering
 Connector : plug
 Mechanical mounting : for cable
 Spatial orientation : straight

Symbol	Pin
75009702	12
75009710	12

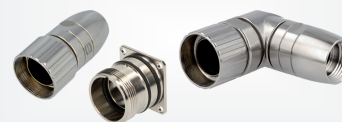
Plug; M16; LUMBERG



Electrical mounting : soldering

Symbol	Kind	IP rating	Orientation	Pin	Layout	Type
0322-07	female	IP68	straight	7	360°	shielded
0332-03	male	IP68	straight	3	-	shielded
0332-14	male	IP68	straight	14	-	shielded
WKV81	female	IP40	angled 90°	8	270°	-
WSV50	male	IP40	angled 90°	5	180°	-

Enclosure for connectors; M23 Signal; HARTING



Type enclosure for connectors : M23

Symbol	Mechanical mounting	Mounting hole diameter [mm]
09151000305	flange (4 holes), for panel mounting, back side of panel	-
09151000373	for panel mounting, front side of panel, screwed	-
09151000701	for cable	-
09151000902	flange (4 holes), for panel mounting, front side of panel	2.7

Application - series/manufacturer : M23 Signal

Socket; M16; AMPHENOL



Connector : socket

Contact insert; M23 Signal; HARTING



Connector : contact insert

cont. on the next page

Contact insert; M23 Signal; HARTING (cont.)

Manufacturer series : M23 Signal

Symbol	No. of pins	Kind	Electr. mounting	Type
09151063001	6	male	crimped	w/o contacts
09151062703	6	female	THT	-
09151173001	17	male	crimped	w/o contacts
09151172703	17	female	THT	-

Related articles:

Symbol	Product description
09151006121	Contact;male;2mm;gold-plated;0.75÷2.5mm2;crimped;for cable
09151006221	Contact;female;2mm;gold-plated;0.75÷2.5mm2;crimped;for cable

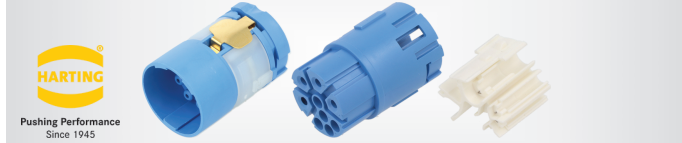
Enclosure for connectors; M23 Power/Hybrid; HARTING



Type enclosure for connectors : M23

Symbol	Spatial orientation	Locking system
0915600302	straight	ComLock, external thread
0915600303	straight	ComLock, external thread
0915600493	straight	ComLock
0915600311	straight	ComLock, external thread

Contact insert; M23 Power/Hybrid; HARTING



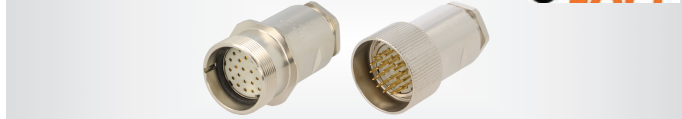
Electrical mounting : crimped

Type : w/o contacts

Connector : contact insert

Symbol	Pin	Kind
09156063101	6	female
09156083101	8 (4+4)	female
09156093001	9 (4+5)	male
09156093111	9 (4+5)	female
09156123001	12 (4+4+4)	male

Plug; M27; LAPP



Mech. mounting : for cable

Orientation : straight

Connector : plug

Manufacturer series : ZYLIN

Type : shielded

Symbol	Kind	Locking	Type	No. of pins
00008899	male	internal thread	E-Part	26
00008854	male	external thread	E-Part	21
00008779	female	external thread	P-Part	21
00008979	female	external thread	P-Part	26

Socket; M27; LAPP



Locking : external thread

IP rating : IP67

Mech. mounting : flange (4 holes), for panel mounting

Manufacturer series : ZYLIN

Symbol	Kind	Pin	Type
00008746	female	26	shielded; P-Part
00008747	male	21	shielded
00008825	male	26	shielded
00008867	female	21	shielded; P-Part

Connector: 7/8"; MOLEX



Manufacturer series : Mini-Change

Symbol	No. of pins	Kind	Electr. mounting	Mech. mounting	Cable len. [m]	Orientation
MX-130006-0725	4	female	cables	for cable	0.91	straight
MX-130017-0029	5	male	screw terminal	for cable	-	straight
MX-130017-0023	5	female	screw terminal	for cable	-	straight
MX-130006-8131	5	female	cables	-	5	-

Connector: 7/8"; CONEC



Orientation : straight

Symbol	Connector	Cable len. [m]	Kind
41-40017	socket	0.5	female
41-40041	socket	0.5	female
41-00004	plug	-	male
41-01174	plug	3	male

Connector: 7/8"; HARTING



Spatial orientation : straight

Symbol	Connector	Electrical mounting	Kind	Cable len. [m]	Pin
21043162501	socket	cables	female	0.5	5
21043162401	socket	cables	female	0.5	4
21043162301	socket	cables	female	0.5	3
21041162505	plug	IDC (HARAX®)	female	-	5
21041161505	plug	IDC (HARAX®)	male	-	5

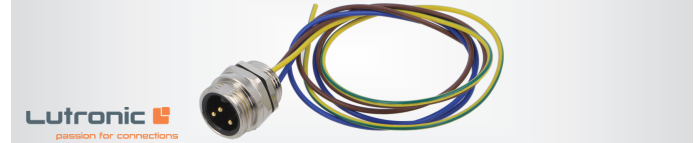
Connector: 7/8"; BINDER



Manufacturer series : 820

Symbol	Pin	Kind	Connector	Wire cross-section [mm ²]	Size
09-2446-100-03	3	female	socket	0.75	18AWG
09-2446-330-03	3	female	socket	0.75	18AWG
09-2448-310-04	4	female	socket	0.75	18AWG
09-2450-100-05	5	female	socket	0.75	18AWG
09-2451-300-05	5	male	socket	0.75	18AWG

Connector: 7/8"; LUTRONIC





Connector : socket

IP rating : IP67

Symbol	Kind	Pin
7820-03-T13CW-05M	female	3
7820-04-T13CW-05M	female	4
7820-05-T13CW-05M	female	5
7830-03-T13CW-05M	male	3
7830-04-T13CW-05M	male	4
7830-05-T13CW-05M	male	5

Plug; with lead; 7/8"; HARTING

Symbol	Pin	Spatial orientation	Cable len. [m]
21349900598100	5	angled 90°	10
21349900597075	5	angled 90°	7.5
21349700597050	5	straight	5
21349700495030	4	straight	3
21349700393050	3	straight	5

Cable: for sensors/automation; HARTING




Connector : plug
Type of cable : for sensors/automation
No. of pins : 4
Wire insulation material : PVC

Symbol	Cable len. [m]
21349697495003	0.3
21349899495015	1.5

Enclosure for connectors; Han® F+B; HARTING




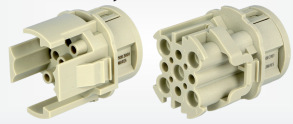

IP rating : IP67, IP6K9K
Type enclosure for connectors : circular
Connectors application : food industry
Manufacturer series : Han® F+B

Symbol	Orientation	Colour
09155030102	straight	black
09155130901	angled	blue
19155031403	straight	black
19155131701	straight	blue

Related articles:

Symbol	Product description
09155035401	Protection cover;IP67,IP6K9K;internal thread;black
09155035411	Protection cover;IP67,IP6K9K;external thread;black
09155039911	Mounting adapter;Han 3A;Application:for inserts

Contact insert; Han® F+B; HARTING

Electrical mounting : crimped
Type : w/o contacts
Connector : contact insert
Manufacturer series : Han® F+B
Application : food industry

Symbol	Number of pins	Kind
09155083001	9	male
09155083101	9	female
09155123002	13	male
09155123102	13	female


Connector: valve connector; HIRSCHMANN




IP rating : IP65
Kind : male
U_{rated} : 400V

Symbol	Mech. mounting
GSA2000SW	for panel mounting
GSP211	screw-in
GSR-U2000LO	for molding



Connector: valve connector; form B; HIRSCHMANN

No. of pins : 3
Locking system : screws
Kind : female

Symbol	U _{rated} [V]	Type
GM216NJSW	250	-
GML209LED230VR	230	with LED; with varistor
GML209LED24VR	24	with LED; with varistor
GMN209NJ	250	-
GMNL209NJLED24YE	24	with LED
GMNL216NJLED24HHSW	24	with LED; with protective diode



Connector: valve connector; form C; HIRSCHMANN

IP rating : IP65
Locking system : threaded joint

Symbol	Kind	Mechanical mounting	Contacts pitch [mm]	Layout
GDS207SW	female	for cable	9.4	2+PE
GSSA300	male	flange (2 holes), for panel mounting	9.4	3+PE
GDSN207SW	female	for cable	8	2+PE
GSSNA200	male	flange (2 holes), for panel mounting	8	2+PE



Connector: valve connector; MOLEX

Type of connector : valve connector
Application : for solenoid valves
Manufacturer series : mPm
Plating : silver plated

Symbol	Case	Layout	Wire [mm ²]	Contacts ph [mm]	U _{rated} [V]
MX-1210230122	form B	2+PE	1.5	11	250
MX-1210230341	form A	3+PE	1.5	18	250
MX-121204-0010	form C	2+PE	0.75	8	300

Connector: valve connector; MURRELEKTRONIK

Connector : plug
Kind : female
Locking system : screws
Orientation : angled 90°
Electr. mounting : screw terminal
Application : for solenoid valve coils, for solenoid valves
IP rating : IP65
Manufacturer series : SVS Eco


Symbol	Layout	Case	Pitch [mm]	Design
7000-29165-0000000	2+PE	form A	18	LED diode, varistor
7000-29441-0000000	3+PE	form A	18	-
7000-29565-0000000	2+PE	form B	10	LED diode, varistor
7000-29685-0000000	2+PE	form B	10	LED diode, varistor
7000-30105-0000000	2+PE	form C	8	LED diode, varistor

cont. on the next page

Connector: valve connector; MURRELEKTRONIK (cont.)

Symbol	Layout	Case	Pitch	Design
7000-30125-000000	2+PE	form C	8 [mm]	LED diode, varistor

Diagnostic adapter; HIRSCHMANN



HIRSCHMANN
A BELDEN BRAND

Symbol Structure Application
MESAP43650 DIN 43650A socket; DIN 43650A plug current, voltage control

Connector: rectangular; HIRSCHMANN




HIRSCHMANN
A BELDEN BRAND

IP rating : IP65
 No. of pins : 4
 Manufacturer series : G
 Electr. mounting : soldering

Symbol	Connector	Kind	Orientation	Mech. mounting	Layout
G30E3F	socket	female	-	flange (2 holes), for panel mounting	3+PE
G4A5M	socket	male	-	flange (2 holes), for panel mounting	-
G4W1F	plug	female	angled 90°	for cable	-

Socket; rectangular; HIRSCHMANN




HIRSCHMANN
A BELDEN BRAND

Electr. mounting : screw terminal
 Mechanical mounting : flange (2 holes), for panel mounting
 IP rating : IP54
 Manufacturer series : ST

Symbol	No. of pins	Layout	Kind	Orientation	I _{max} [A]	U _{rated} [V]
STAKAP3N	3	3+PE	female	angled	16	400
STAKEI-3	3	3+PE	female	straight	16	400
STASAP-2B	2	2+PE	male	angled	16	250
STASEI-3	3	3+PE	male	straight	16	400

Related articles:
Symbol Product description
STASI-2 Locking clamp;Application:2 + PE connector;ST
STASI-3 Locking clamp;Application:3+PE, 5+PE connector;ST

Plug; rectangular; HIRSCHMANN



HIRSCHMANN
A BELDEN BRAND

Type of connector : rectangular
 IP rating : IP54
 Locking system : latch
 Manufacturer series : ST

Symbol	No. of pins	Layout	Kind	U _{rated} [V]	I _{max} [A]
STAK-2	2	2+PE	female	250	16
STAK-3N	3	3+PE	female	400	16
STAK-5	5	5+PE	female	400	10
STAS-2	2	2+PE	male	250	16
STAS-3N	3	3+PE	male	400	16
STAS-5	5	5+PE	male	400	10

Enclosure for connectors; for cable; Han® B; HARTING



HARTING
Pushing Performance Since 1945

Application - series/manufacturer : Han® B
 Type enclosure for connectors : HDC

Symbol	Locking	Case	Gland	Insert mounting [mm]	Orientation
09300061440	for latch	size 6B	PG13,5	44x27	straight
09300161440	for latch	size 16B	PG21	77.5x27	straight
09300240525	for double latch	size 24B	PG36	104x27	angled
09300241421	for double latch	size 24B	PG29	104x27	straight
19300061540	for latch	size 6B	M20	44x27	angled
19300061541	for latch	size 6B	M25	44x27	angled

Enclosure for connectors; for panel mounting; Han® B; HARTING



HARTING
Pushing Performance Since 1945

IP rating : IP65
 Application - series/manufacturer : Han® B
 Type enclosure for connectors : HDC

Enclosure material : aluminium alloy

Symbol	Case	Type	Gland
09300060301	size 6B	-	-
09300100303	size 10B	with cover	-
09300160231	size 16B	high	PG29
09300241290	size 24B	-	PG21

Enclosure for connectors; for cable; TE Connectivity



TE connectivity
AUTHORIZED DISTRIBUTOR

Enclosure material : aluminium alloy
 Mechanical mounting : for cable
 Type enclosure for connectors : HDC

Application - series/manufacturer : HDC
 Orientation : straight

Symbol	Locking system	Gland
T1320060120-000	for latch	M20
T1329030120-000	for latch	M20
T1329160125-000	for latch	M25
T1329320132-000	for double latch	M32

Enclosure for connectors; for panel mounting; TE Connectivity



TE connectivity
AUTHORIZED DISTRIBUTOR

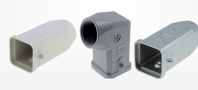
Enclosure material : aluminium alloy
 Type enclosure for connectors : HDC

Application - series/manufacturer : HTS

Symbol	Locking system	Type
HTS-1-1102283-2	with latch	with cover
HTS-1-1102296-1	with double latch	-
HTS-1-1102296-2	with latch	-

Mechanical mounting : flange (4 holes), for panel mounting

Enclosure for connectors; for cable; size 3A; HARTING



HARTING
Pushing Performance Since 1945

Locking system : for latch

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Industrial connectors

Enclosure for connectors; for cable; size 3A; HARTING (cont.)

Application - series/manufacturer : Han® A

Type enclosure for connectors : HDC

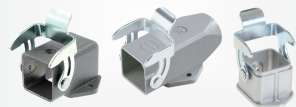
Gland : M20

Symbol	Enclos. mat.	Orientation	Type
19200030420	polycarbonate	straight	-
19200031440	zinc alloy	straight	-
19200031643	zinc alloy	angled 90°	with extra seal

Related articles:

Symbol	Product description
09200009918	Mounting screw with gasket;IP65;Han 3A IP67 M3 sealing screw

Enclosure for connectors; for panel mounting; size 3A; HARTING



Locking system : with latch

Application - series/manufacturer : Han® A

Type enclosure for connectors : HDC

Symbol	Orientation	Type	Enclos. mat.	Gland
09200030301	straight	-	zinc alloy	-
09200030305	straight	with cover	zinc alloy	-
09200030801	angled 90°	-	zinc alloy	-
09200030820	angled 90°	-	polycarbonate	-
19200030220	straight	side	polycarbonate	M20
19200031250	straight	side	zinc alloy	M20

Enclosure for connectors; for cable; C146; AMPHENOL



IP rating : IP65

Mechanical mounting : for cable

Application - series/manufacturer : C146, heavy/mate

Type enclosure for connectors : HDC

Gland holes : 1

Symbol	Case	Gland	Locking	Orientation
C146-21R0246061	size E24	M32	for latch	straight
C146-10G0166018	size E16	PG29	for double latch	straight
C146-10G0165001	size E16	PG21	for double latch	angled
C146-10G0105061	size E10	PG16	for latch	angled
C146-30R0038044	size A3	M20	with latch	straight

Enclosure for connectors; for panel mounting; C146; AMPHENOL



IP rating : IP65

Application - series/manufacturer : C146, heavy/mate

Type enclosure for connectors : HDC

Mech. mounting : for panel mounting

Locking : with latch

Enclosure material : aluminium

Symbol	Case	Mech. mounting	Gland
C146-30F0060031	size E6	flange (4 holes)	-
C146-30F0160031	size E16	flange (4 holes)	-
C146-30N0035004	size A3	flange (2 holes), for cable	M20

Enclosure for connectors; Han® High Temp; HARTING



IP rating : IP65

Operating temperature : -40...200°C

Symbol	Case	Spatial orientation	Gland
19628061440	size 6B	straight	M20
19628061540	size 6B	angled	M20
09628060391	size 6B	-	-
19628100428	size 10B	straight	M40

Enclosure for connectors; for panel mounting; MOLEX



Type enclosure for connectors : HDC

Mounting : for panel mounting

Symbol	Case	Locking	Mounting
MX-93601-0616	size 3A	with latch	flange (2 holes)
MX-93601-0816	size 6B	with latch	flange (4 holes), for cable
MX-93601-1165	size 10A	with latch	flange (4 holes)
MX-93601-1537	size 10B	with double latch	flange (4 holes), for cable
MX-93601-1575	size 10B	with double latch	flange (4 holes)
MX-93601-3532	size 24B	with latch	flange (4 holes)

Enclosure for connectors; for cable; MOLEX



Mechanical mounting : for cable

Type enclosure for connectors : HDC

Symbol	Case	Locking	Orientation	Gland	Type
MX-93601-0632	size 3A	for latch	straight	PG11	-
MX-93601-0914	size 6B	for double latch	angled	M25	-
MX-93601-1176	size 10A	for latch	straight	PG16	-
MX-93601-1188	size 10A	for latch	straight	M25	high
MX-93601-1206	size 10A	for latch	angled	M20	-
MX-93601-2807	size 16B	for latch	angled	M32	-

Enclosure for connectors; size H-B 6; EPIC® ULTRA H-B; LAPP



Application - series/manufacturer : EPIC® ULTRA H-B

Enclosure material : zinc alloy

Type : fully shielded; enhanced construction

IP rating : IP65

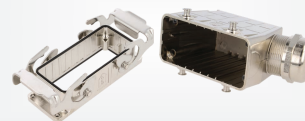
Insert mounting : 44x27mm

Type enclosure for connectors : HDC

Plating material : nickel

Symbol	Mechanical mounting
70250202	for cable
70250206	for panel mounting
70250205	for cable
70250207	for panel mounting, for cable

Enclosure for connectors; size H-B 16; EPIC® ULTRA H-B; LAPP



Type : fully shielded; enhanced construction

Enclosure material : zinc alloy

IP rating : IP68

Type enclosure for connectors : HDC

Plating material : nickel

Symbol	Locking system	Cable ext. dia. [mm]	Spatial orientation
70250216	for double latch	11...21	angled
70250217	with double latch	-	straight
70250214	for double latch	7...15	angled
70250215	for double latch	11...21	angled
70250264	for double latch	7...15	angled

Enclosure for connectors; for cable; Han® Ex; HARTING



Features : group of devices I and II;
intrinsically safe ia, ib, ic;
connectors for explosion hazardous area

Application - series/manufacturer : Han® Ex

Type enclosure for connectors : HDC

Symbol	Case	Orientation	Insert mounting [mm]
19360061441	size 6B	straight	44x27
19360101520	size 10B	angled	57x27
19360161422	size 16B	straight	77.5x27
19360241522	size 24B	angled	104x27

Enclosure for connectors; for panel mounting; Han® Ex; HARTING



Features : group of devices I and II;
intrinsically safe ia, ib, ic;
connectors for explosion hazardous area

Enclosure material : zinc alloy

Mechanical mounting : for panel mounting

Type enclosure for connectors : HDC

Symbol	Case	Locking system
09360061301	size 6B	with latch
09360101301	size 10B	with double latch
09360161301	size 16B	with double latch
09360241301	size 24B	with double latch
09360480301	size 48B (2 x 24B)	with latch

Enclosure for connectors; Han® B; black; HARTING



Application - series/manufacturer : Han® B

Colour : black

Enclosure material : aluminium alloy

Type enclosure for connectors : HDC

Symbol	Mechanical mounting	Case	Orientation	Insert mounting [mm]
19307061540	for panel mounting	size 6B	angled	44x27
19307101441	for cable	size 10B	straight	57x27
19307160426	for cable	size 16B	straight	77.5x27
09307240302	for panel mounting	size 24B	straight	104x27

Enclosure for connectors; Han® HPR; HARTING



Application - series/manufacturer : Han® HPR

Enclosure material : aluminium alloy

Operating temperature : -40...125°C

IP rating : IP65, IP68, IP69, IPX9K

Type enclosure for connectors : HDC

Symbol	Locking system	Gland	Spatial orientation
19400060401	threaded joint, latch	M25	straight
19400060418	threaded joint	M40	straight
19400061212	threaded joint	M32	straight
19400100401	threaded joint, latch	M25	straight
19400100513	threaded joint	M40	angled
19400160442	threaded joint	M32	straight

Enclosure for connectors; Han® M; HARTING



Application - series/manufacturer : Han® M

Body colour : black

Type enclosure for connectors : HDC

Symbol	IP rating	Gland	Case	Orientation
09370060301	IP65	-	size 6B	-
09370061540	IP65, IP66, IP67	PG13,5	size 6B	angled
09370160271	IP65	PG29	size 16B	angled
09370161520	IP65, IP66, IP67	PG21	size 16B	angled
19370060296	IP65	M25	size 6B	angled
19370061540	IP65, IP66, IP67	M20	size 6B	angled
19370161521	IP65, IP66, IP67	M25	size 16B	angled

Enclosure for connectors; Han-INOX; HARTING



Enclosure material : stainless steel

Application - series/manufacturer : Han-INOX

Orientation : straight

Type enclosure for connectors : HDC

Symbol	Case	Mechanical mounting
19443100305	size 10B	flange (4 holes), for panel mounting
19440031440	size 3A	for cable
19440030301	size 3A	flange (2 holes), for panel mounting

Enclosure for connectors; size L32B; HARTING



Enclosure material : aluminium alloy

Application - series/manufacturer : Han® B

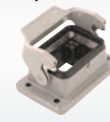
IP rating : IP65

Insert mounting : 157x32mm

Type enclosure for connectors : HDC

Symbol	Locking system	Gland	Gland holes
19301320271	with double latch	M40	1
19301320429	for double latch	M50	1
09301320301	with double latch	-	-

Enclosure for connectors; Han® B, Rear Fit; HARTING



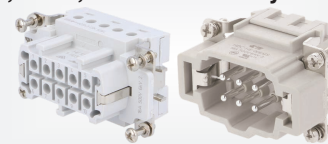
Application - series/manufacturer : Han® B, Rear Fit

Spatial orientation : straight

Type enclosure for connectors : HDC

Symbol	Locking system	Case	Insert mounting [mm]
09300060391	with latch	size 6B	44x27
09300060392	with latch	size 6B	44x27
09300100391	with double latch	size 10B	57x27
09300100397	with latch	size 10B	57x27
09300160391	with double latch	size 16B	77.5x27
09300160397	with latch	size 16B	77.5x27

Contact insert; HDC; TE Connectivity



Connector : contact insert

Electrical mounting : screw terminal

Symbol	No. of pins	Kind	U _{rated} [V]
T2010102201-000	10	female	250
T2040062101-000	6	male	500

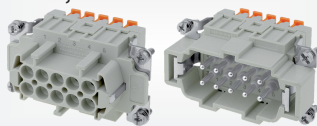
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Industrial connectors

Contact insert; HDC; TE Connectivity (cont.)

Symbol	No. of pins	Kind	U _{rated} [V]
T2040102101-000	10	male	500
T2040242101-000	24	male	500

Contact insert; HDC; ILME

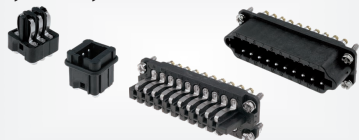


Connector : contact insert
Case : size 104.27

No. of pins : 24
Layout : 24+PE
Electrical mounting : snap-on

Symbol	Kind
CSHM24	male
CSHF24	female

Contact insert; Staf®; HARTING



Symbol	Kind	No. of pins	Case	Electrical mounting
09700062812	male	6	size 3A	soldering
09700062615	female	6	size 3A	soldering
09700142811	male	14	size 10A	screw terminal
09700202817	male	20	size 16A	screw terminal
09700202622	female	20	size 16A	screw terminal

Contact insert; HDC; AMPHENOL

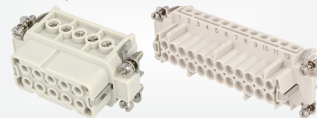


Manufacturer series : heavy|mate
Electrical mounting : screw terminal

Wire : 0.25...2.5mm²

Symbol	No. of pins	Layout	Case	Kind	I _{nom} [A]	U _{rated} [V]
C146-10A0040024	5	4+PE	size A3	male	10	400
C146-10A0061021	6	6+PE	size E6	male	22	500
C146-10B0100021	10	10+PE	size E10	female	16	500
C146-10B0241021	24	24+PE	size E24	female	16	500

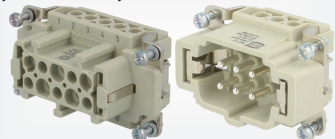
Contact insert; HDC; MOLEX



Electrical mounting : screw terminal
Connector : contact insert

Symbol	No. of pins	Layout	Case	Kind	Wire [mm ²]	I _{nom} [A]	U _{rated} [V]
MX-93601-0215	6	6+PE	size 6B	male	0.5...2.5	16	500
MX-93601-0133	5	4+PE	size 3A	male	0.5...2.5	10	400
MX-93601-0121	4	3+PE	size 3A	female	0.5...2.5	10	400
MX-93601-0297	24	24+PE	size 24B	female	0.5...2.5	16	500

Contact insert; Han® Ex; HARTING



Connector : contact insert
Features : group of devices I and II;
intrinsically safe ia, ib, ic;
connectors for explosion hazardous area

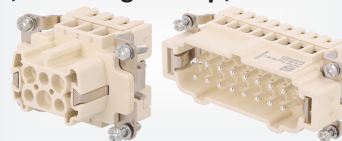
Manufacturer series : Han® Ex

Symbol	Case	Kind	Layout	Insert mounting [mm]
09360062601	size 6B	male	6+PE	44x27
09360062701	size 6B	female	6+PE	44x27
09360162601	size 16B	male	16+PE	77.5x27
09360162701	size 16B	female	16+PE	77.5x27

Contact insert; Han® High Temp; HARTING



Pushing Performance
Since 1945



Mechanical durability : 500 cycles
Rated voltage : 400V
Current rating : 16A
Electrical mounting : screw terminal

Symbol	Case	Kind	Pin
09338062603	size 6B	male	6
09338062703	size 6B	female	6
09338102603	size 10B	male	10
09338102703	size 10B	female	10
09338162603	size 16B	male	16
09338162703	size 16B	female	16

Module; 40A; HARTING



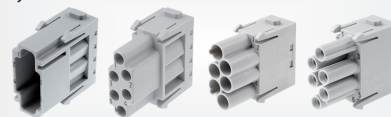
Pushing Performance
Since 1945



Current rating : 40A
Insulator material : polycarbonate
Manufacturer series : Han-Modular®

Symbol	Electrical mounting	Wire cross-section [mm ²]	Number of pins	Kind
09140022601	screw terminal	2.5...6	2	male
09140022701	screw terminal	2.5...6	2	female
09140032701	screw terminal	2.5...6	3	female
09140022602	screw terminal	6...10	2	male

Module; 16A; HARTING



Pushing Performance
Since 1945

Manufacturer series : Han-Modular®

Symbol	Number of pins	Electrical mounting	Kind
09140052601	5	screw terminal	male
09140052716	5	spring clamp	female
09140065101	6	push-in	female
09140082633	8	snap-on (Quick Lock)	male

Module; Han-Modular® Domino; HARTING



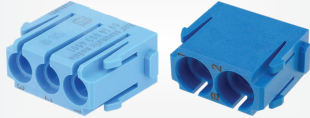
Pushing Performance
Since 1945



Manufacturer series : Han-Modular® Domino

Symbol	Pin	Kind	Application
09149041001	4	male	-
09149041101	4	female	-
09149062001	6	male	-
09149062101	6	female	-
09149161001	16	male	-
09149161101	16	female	-
09149212001	1	male	M12 connectors
09149212101	1	female	M12 connectors
09149311001	1	male/female	-
09149312001	1	male/female	-

Module; pneumatic; HARTING

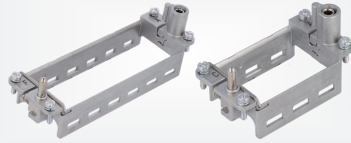


Manufacturer series : Han-Modular®
Application - series/manufacturer : Han® Pneumatic

Symbol	Number of ways
09140034501	3
09140033501	3

Related articles:
Symbol Product description
09990000899 Tool:for removal;contacts;Han-Modular®

Frame for modules; HARTING



Connector accessories : frame for modules

Symbol	Modules	Case
09140060303	2	size 6B
09140100303	3	size 10B
09140160303	4	size 16B
09140240303	6	size 24B

Contact; pneumatic; brass; HARTING



Material : brass
Working press. : max. 10bar
Mechanical durability : 10000 cycles

Application - series/manufacturer : Han-Modular®

Symbol	Spatial orientation	Kind	Application
09140006353	straight	male	pipe OD Ø3mm
09140006356	straight	male	pipe OD Ø6mm
09140006350	straight	male	pipe OD Ø10mm
09140006453	straight	female	pipe OD Ø3mm
09140007354	angled	male	pipe OD Ø4mm
09140007453	angled	female	pipe OD Ø3mm

Related articles:
Symbol Product description
09140009806 Gasket;Han-Modular®;Gasket:HNBR

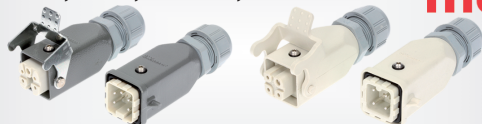
Complete set; HDC; HARTING



Kind : male + female
Type : with cable gland
Manufacturer series : Han Kit

Kit contents : complete set						
Symbol	No. of pins	Orientation	Enclos. mat.	Kit contents	Insert mounting [mm]	Cable ext. dia. [mm]
10200030002	4	straight	plastic	plug + socket	21x21	5...12
10330240000	24	angled	aluminium alloy	plug + socket	104x27	13...25
87848110031	6	straight	aluminium alloy	plug +plug	44x27	-
87848110034	24	straight	aluminium alloy	plug +plug	104x27	-
87848110038	14	straight	plastic	plug + socket	57x27	-

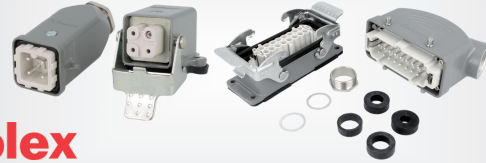
Complete set; HDC; size 3A; MOLEX



Kind : male + female
Electrical mounting : screw terminal
Type : with cable gland
IP rating : IP67

Case	Symbol	No. of pins	Layout	Enclos. mat.
: size 3A	MX-93608-0390	4	3+PE	metal
	MX-93608-0391	5	4+PE	metal
	MX-93608-0392	4	3+PE	plastic
	MX-93608-0393	5	4+PE	plastic

Complete set; HDC; MOLEX



Kind : male + female
Electrical mounting : screw terminal
Kit contents : plug + socket; complete set

Mechanical mounting : for panel mounting, for cable
IP rating : IP66

Symbol	No. of pins	Layout	Case	Orientation	U _{rated} [V]	I _{nom} [A]
MX-93603-0009	4	3+PE	size 3A	angled	400	10
MX-93603-0045	6	6+PE	size 6B	angled	500	16
MX-93603-0057	10	10+PE	size 10B	angled	500	16
MX-93603-0095	24	24+PE	size 24B	straight	500	16

Related articles:
Symbol Product description
MX-93600-0046 Gland;GWconnect;M20;IP66;3,5-12,5mm;brass;7000.6848.0

Complete set; HDC; WEIDMÜLLER



Kit contents : plug + socket; complete set
Mech. mounting : for panel mounting, for cable
Kind : male + female
Type : with cable gland
Electrical mounting : screw terminal

Symbol	Number of pins	Orientation	Enclosure material	Gland	Layout
KIT-HA03.300M	4	straight	metal	M20	3+PE
KIT-HA03.301	4	straight	plastic	PG11	3+PE
KIT-HA04.402M	5	angled 90°	metal	M20	4+PE
KIT-HA04.401	5	straight	plastic	PG11	4+PE

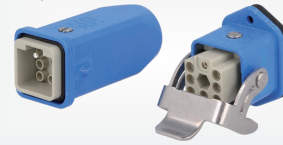
Complete set; HDC; AMPHENOL



Type : with cable gland
Electrical mounting : screw terminal
Kind : male + female

Symbol	Layout	Case	Orientation	U _{rated} [V]	I _{nom} [A]	Ø _{ext. cable} [mm]
C146-10E0039214	3+PE	size A3	straight	400	10	8...13
C146-10E0109211	10+PE	size E10	straight	500	19	8...13
C146-10E0109221	10+PE	size E10	angled 90°	500	19	11...18
C146-10E0249211	24+PE	size E24	straight	500	18	15...21

Complete set; HDC; HARTING



Case : size 3A
Insert mounting : 21x21mm
Manufacturer series : Han® Ex
Symbol Layout Number of pins Type
10360040003 4+PE 5 without cable gland

cont. on the next page

Industrial connectors

Complete set; HDC; HARTING (cont.)

Symbol	Layout	Number of pins	Type
10360070001	6+PE	7	without cable gland; w/o contacts
10360080006	7+PE	8	without cable gland; w/o contacts
10360080007	7+PE	8	without cable gland
10360120001	12+PE	12	without cable gland; w/o contacts

Complete set; HDC; PHOENIX CONTACT



Kind : male + female
 Type : with cable gland
 Manufacturer series : HDC
 Electrical mounting : spring clamp

Symbol	Number of pins	Enclosure material	Gland	Layout	U _{rated} [V]	Insert mounting [mm]
HCEVOA10PTBWSHHM20	10	polyamide	M20	10+PE	250	49.5x16
HCEVOB06PTBWSCHLM2	6	polyamide	M20	6+PE	500	44x27
HCSTAB24PTBWSCLTM3	24	aluminium	M32	24+PE	500	104x27
HCSTAA16PTBWSHTM25	16	aluminium	M25	16+PE	250	66x16

Complete set; plug; HDC; LAPP



Type of connector : HDC
 Electrical mounting : screw terminal
 Mechanical mounting : for cable
 Manufacturer series : EPIC KIT
 Kit contents : complete set
 Kind : male

Symbol	Case	Orientation	No. of pins	Insert mounting [mm]	Locking system
75009625	size H-A 10	straight	10	49.5x16	for latch
75009636	size H-B 6	angled	6	44x27	for latch
75009651	size H-B 24	angled	24	104x27	for double latch

Complete set; socket; HDC; LAPP



Electrical mounting : screw terminal
 Kind : female
 Kit contents : complete set
 Manufacturer series : EPIC KIT

Symbol	Case	Pin	Mechanical mounting
75009620	size H-A 3	5	flange (2 holes), for panel mounting
75009627	size H-A 10	10	flange (4 holes), for panel mounting
75009637	size H-B 6	6	flange (4 holes), for panel mounting

Socket; push-pull; HIROSE



Type of connector : circular
 Spatial orientation : straight
 Manufacturer series : HR10

Symbol	Electr. mounting	Kind	Pin	Mechanical mounting
HR10-10R-12P-73	soldering	male	12	for panel mounting, rear side nut
HR10-10R-12SA-73	PCB	female	12	THT
HR10G-7R-4P-73	soldering	male	4	for panel mounting, rear side nut

Plug; push-pull; HIROSE



Locking system : push-pull
 Connector : plug
 Manufacturer series : HR10
 Electrical mounting : soldering
 Mechanical mounting : for cable

Symbol	Kind	Pin	Ø _{ext. cable} [mm]
HR10-7P-4S-73	female	4	5.2
HR10-7P-6S-73	female	6	5.2
HR10A-10P-10P-73	male	10	-
HR10A-10P-10S-73	female	10	-
HR10A-7P-4P-73	male	4	-
HR10A-7P-6S-73	female	6	-

Connector: circular; WIELAND



Manufacturer series : RST
 No. of terminals : 3
 Electr. mounting : screw terminal
 I_{nom} : 20A

Symbol	No. of pins	Kind	Colour
96.031.4053.0	3	female	grey
96.051.4053.6	5	female	turquoise
96.052.4053.6	5	male	turquoise

Plug; circular; AMPHENOL LTW



IP rating : IP68
 Type : with contacts
 Manufacturer series : X-Lok
 Electrical mounting : crimped

Symbol	Kind	No. of pins	I _{nom} [A]	Ø _{ext. cable} [mm]	Case
BB-03BFMA-QL8LPP	male	3	10	8...10	Standard B
BD-06BMFA-QL8MPO	female	6	5	6...8	Standard B
CD-12BFFA-QL8MPO	female	12	5	8...10	Middle C
DD-18BMMA-QL8MPO	male	18	5	10...12	Large D

Plug; HR30; HIROSE



Mechanical mounting : for cable
 Locking system : push-pull
 Manufacturer series : HR30

Symbol	Kind	Pin
HR30-6J-6P-31	male	6
HR30-6JA-6P-71	male	6
HR30-6P-3S-31	female	3
HR30-7P-12S-71	female	12
HR30-8P-12P-71	male	12

Plug; circular; ST12; WEIPU



IP rating : IP67

cont. on the next page

Plug; circular; ST12; WEIPU (cont.)

Operating temperature : -25...85°C
 Ø_{ext. cable} : 5...8mm
 Manufacturer series : ST12

Locking system : threaded joint

Symbol	Kind	Locking system	No. of pins
ST1210/P2	male	internal thread	2
ST1210/P7	male	internal thread	7
ST1210/S9	female	internal thread	9
ST1211/S4	female	external thread	4
ST1211/S7	female	external thread	7

Plug; circular; WEIPU



IP rating : IP68
 Manufacturer series : SP21

Electrical mounting : soldering
 Locking system : threaded joint

Symbol	No. of pins	Kind	Locking system
SP2110/P12	12	male	internal thread
SP2110/P3	3	male	internal thread
SP2111/S12	12	female	external thread
SP2111/S3	3	female	external thread

Socket; circular; WEIPU



IP rating : IP68
 Locking system : external thread, threaded joint
 Manufacturer series : SP21

Symbol	No. of pins	Kind	Electrical mounting
SP2112/P4/2N	4	male	screw terminal
SP2112/S12	12	female	soldering
SP2113/P4/2N	4	male	screw terminal
SP2113/P5/2N	5	male	screw terminal
SP2113/S12	12	female	soldering

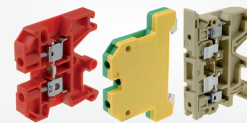
Terminal block; ceramics; BM GROUP



U_{rated} : 450V
 Body material : ceramics
 Operating temperature : max. 300°C

Symbol	Wire cross-section [mm ²]	Number of ways
BM9516	4	1
BM9517	4	2
BM9519	6	1
BM9520	6	2
BM9522	16	1
BM9524	16	3

Splice terminal; rail; screw terminal; WEIDMÜLLER

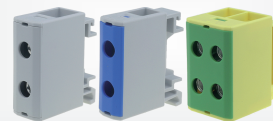


Electrical mounting : screw terminal

Rail : TS35

Symbol	Rail	No. of ways	No. of terminals	Cond. cross sec. [mm ²]	U _{rated} [V AC]	I _{nom} [A]	Design
ASK1/BE	TS32	1	2	4	500	6.3	fuse x1
KDKS1/35		2	4	4	500	6.3	fuse x1
WDU4RT		1	2	4	800	32	-
WDU4SW		1	2	4	800	32	-
WDU6RT		1	2	6	800	41	-

Splice terminal; rail; screw terminal; OUNEVA

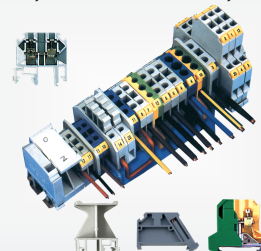


Mounting rail size : TS35

Number of ways : 1

Symbol	Colour	No. of terminals	I _{nom} [A]	Wire [mm ²]	Rated voltage [V]
T021016	grey	2	82	1.5...16	1k
T021016.B	blue	2	82	1.5...16	1k
T021016.YG	yellow-green	2	82	1.5...16	1k
T021035	grey	2	135	2.5...35	1k
T021035.B	blue	2	135	2.5...35	1k
T021035.YG	yellow-green	2	135	2.5...35	1k
T022240	grey	4	850	35...240	690
T022240.B	blue	4	850	35...240	690
T022240.YG	yellow-green	4	850	35...240	690

Splice terminal; rail; screw terminal; SIMET



Electrical mounting : screw terminal

U_{rated} : 500V
 No. of ways : 1
 Rail : TS32, TS35
 No. of terminals : 2

Symbol	Cond. cross sec. [mm ²]	I _{nom} [A]	Colour
SI-201C	0.5...4	24	red
SI-501Z	1.5...10	57	yellow

Power connectors

Terminal block; BM GROUP



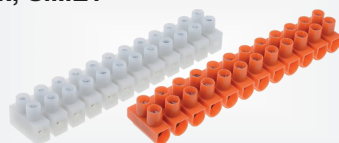
Type of connector : terminal block

Wire cross-section : 4mm²

Symbol	Number of ways	U _{rated} [V]
BM9924	10	450
BMM93CS	12	400

Electrical mounting : screw terminal

Terminal block; SIMET

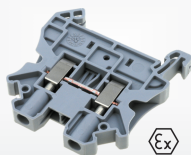


Number of ways : 12

Symbol	Colour	U _{rated} [V]	Wire cross-section [mm ²]	I _{nom} [A]
SI-LPA12-1.5	white	450	1.5	17.5
SI-LPA12-2.5	white	450	2.5	24

Power connectors

Splice terminal: rail; screw terminal; PHOENIX CONTACT



Mounting : screw terminal

Mounting rail size : TS32, TS35

Number of ways : 1

U_{rated} : 800V

Number of terminals : 2

Conform to : ATEX Ex

Symbol	I _{max} [A]	Colour	Wire [mm ²]	Conform to
UT2.5	32	grey	0.14...4	
UT4-PE	41	yellow-green	0.14...6	ATEX II 2GD Ex e IIC Gb
UT6BU	57	blue	0.2...10	

Related articles:

Symbol	Product description
ATP-UT	Separating plate;polyamide
D-UT2.5/10	End plate;UT;polyamide

Symbol	Cond. cross sec. [mm ²]	I _{max} [A]	Colour
ST6BU	0.2...6	52	blue

Symbol	Manufacturer series	Number of ways	Number of terminals	U _{rated} [V]
ST2.5	ST	1	2	800
ST4-PE	ST	1	2	800
ST6BU	ST	1	2	800

Related articles:

Symbol	Product description
ATP-ST4	Separating plate;polyamide
ATP-ST6	Separating plate;polyamide
D-ST2.5	End plate;ST;polyamide
D-ST4	End plate;ST;polyamide
D-ST6	End plate;ST;polyamide

Splice terminal: rail; for fuse; screw terminal



Electrical mounting : screw terminal

Number of ways : 1

Number of terminals : 2

Cond. cross sec. : 0.5...16mm²

I_{max} : 10A

U_{rated} : 800V

Symbol	Mounting rail size	Fuse size [mm]
UK10-DREHSI5X20	-	5x20
UK10-DREHSI6X32	-	6.3x32
PC10-DR	TS32, TS35 x 15, TS35 x 7.5	5x20

Splice terminal: rail; spring clamp; WAGO



Electrical mounting : spring clamp

No. of ways : 1

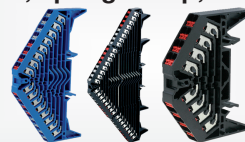
No. of terminals : 2

Symbol	Colour	Wire [mm ²]	I _{nom} [A]	U _{rated} [V]
283-901	grey	0.2...16	76	800
285-134	blue	6...35	125	1k
285-137	yellow-green	6...35	125	1k
285-194	blue	25...95	232	1k

Related articles:

Symbol	Product description
280-314	End plate;grey;280
282-334	End plate;orange;282
283-328	End/partition plate;orange;283
283-402	Comb bridge;grey;283
285-450	Comb bridge;grey;285
285-495	Comb bridge;grey;285

Splice terminal: rail; spring clamp; WEIDMÜLLER



Type of splice terminal : rail

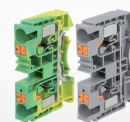
Electrical mounting : spring clamp

Cond. cross sec. : 1.5mm²

Type : with push button

Symbol	Number of ways	Number of terminals	I _{nom} [A]	Rail	Colour	Lever colour
PRV4BL35X15RT	4	16	10	TS35 x 15	blue	red
PRV4BL35X15WS	4	16	10	TS35 x 15	blue	white
PRV4SW35X7.5RT	4	16	10	TS35 x 7.5	black	red
PRV4SW35X7.5WS	4	16	10	TS35 x 7.5	black	white
PRV8BL35X15RT/WS	8	32	8	TS35 x 15	blue	red/white
PRV8BL35X15WS/RT	8	32	8	TS35 x 15	blue	white/red
PRV8SW35X7.5RT/WS	8	32	8	TS35 x 7.5	black	red/white
PRV8SW35X7.5WS/RT	8	32	8	TS35 x 7.5	black	white/red
PRV16BL35X15RT/WS	16	64	5	TS35 x 15	blue	red/white
PRV16BL35X15WS/RT	16	64	5	TS35 x 15	blue	white/red
PRV16SW35X7.5RT/WS	16	64	5	TS35 x 7.5	black	red/white
PRV16SW35X7.5WS/RT	16	64	5	TS35 x 7.5	black	white/red

Splice terminal: rail; spring clamp; DEGSON ELECTRONICS



Electrical mounting : spring clamp

Mechanical mounting : for DIN rail mounting

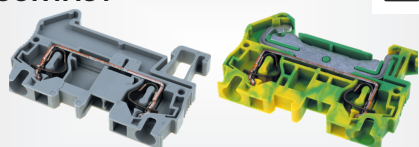
Mounting rail size : TS35

Number of ways : 1

Number of terminals : 2

Symbol	Cond. cross sec. [mm ²]	U _{rated} [V]	Colour	I _{nom} [A]
DS1.5-GY	0.2...1.5	500	grey	17.5
DS10-GY	0.5...16	1k	grey	57
DS2.5-PE	0.2...4	800	yellow-green	24
DS4-GY	0.2...6	800	grey	32
DS6-PE	0.5...10	1k	yellow-green	41

Splice terminal: rail; spring clamp; PHOENIX CONTACT



Mounting : spring clamp

Mounting rail size : TS35

Symbol	Cond. cross sec. [mm ²]	I _{max} [A]	Colour
ST2.5	0.08...2.5	31	grey
ST4-PE	0.08...4	40	yellow-green

Splice terminal: rail; TE Connectivity



Manufacturer series : Entelec

Mechanical mounting : for DIN rail mounting

Mounting rail size : TS32, TS35

Symbol	Alias	No. of ways	No. of terminals	Cond. cross sec. [mm ²]
1SNK505010R0000	ZS4	1	2	0.2...4
1SNK506210R0000	ZS6-D2	2	4	0.2...6
1SNK516011R0000	ZS50	1	2	1...50
1SNK705211R0000	ZK2.5-D1	1	4	0.2...2.5
1SNK706012R0000	ZK4-4P	1	4	0.5...4

Distribution block; TE Connectivity



Mechanical mounting : for DIN rail mounting
 Application - series/manufacturer : DBL
 Operating temperature : -55...110°C
 Manufacturer series : Entrelec

Symbol	Number of ways	Number of terminals	Width [mm]	Ht. [mm]
1SNL308010R0000	1	7	28.4	66
1SNL312510R0000	1	8	28.2	75
1SNL316010R0000	1	8	28.2	75
1SNL317510R0000	1	12	46.2	72.5
1SNL325010R0000	1	12	46	96
1SNL350060R0000	1	12	46	103

Quick splice; Presslok; CORNING



Type of splice terminal : quick splice
 Manufacturer series : Presslok
 Mounting : IDC
 Trade name : quick splice

Variant : with sealing gel

Symbol	Variant	Colour	Wire size	Core diameter [mm]
SL-UY	end connector	yellow	22AWG...26AWG	0.4...0.7
SL-UB-2A	splitter	blue	19AWG...26AWG	0.4...0.9
SL-U1B	inline splice	blue	16AWG...19AWG	0.9...1.3

Distribution block; ENCITECH



Mounting rail size : TS35
 Rated voltage : 690V
 Cur. rat. : 76A
 Number of terminals : 16

Wire 1 : 1.5...25mm²
 Wire 2 : 0.5...4mm²

Symbol	Colour	Number of ways
EST142F-GREY	grey	1
EST142N-BLUE	blue	1
EST142PE-GREEN	green	1
EST142R-RED	red	1

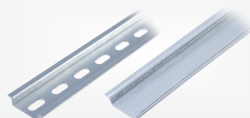
Quick splice; 3M



Type of splice terminal : quick splice
 Mounting : IDC
 Wire cross-section : 0.5...1.5mm²
 Max. wire diameter : 3.8mm
 Max. operating voltage : 600V
 Trade name : quick splice

Symbol	Splice terminal variant	U _{rated} [V]
SL-314	end connector, with sealing gel	-
SL-314U	end connector	-
SL-316R	for underground usage, end connector, with sealing gel	30

DIN rail; TS35



Type of rail : DIN rail
 Mounting rail size : TS35

Symbol	Manufacturer	L. [m]	Profile ht. [mm]
PE.4105	PAWBOL	1	7.5
PE.4105P	PAWBOL	1	7.5
SI-TS35	SIMET	1	7.5
TSK35X15-2M-PVC/GR	WEIDMÜLLER	2	15

Connector: DC supply; CLIFF

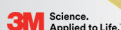


Electrical mounting : soldering
 Rated voltage : 16V DC
 Current rating : 2A

Type : with lock

Symbol	Kind	Connector	Type	Cable len. [m]	Colour
FC681477	male	socket		-	-
FC6814775	female	plug		-	-
FC6814751	female	plug	with lead	2	black
FC6814751W	female	plug	with lead	2	white

Quick splice; 3M



Number of ways : 1
 Trade name : quick splice
 Electr. mounting : IDC

Symbol	Variant	Wire [mm ²]	Electr. mounting	Max. wire diam. [mm]
SL-557	end connector	0.5...1.5		3
SL-560	splitter	0.75...1.5		3.5
SL-562	splitter	4		4.8
SL-952	T-tap splitter	0.8...2	6.3mm connectors	3.8

Connector: DC supply; LUMBERG



Type of connector : DC supply

Symbol	Connector	Kind	Mech. mounting	U _{rated} [V DC]	Electr. mounting
1634-01	plug	female	for cable	12	soldering
NES/J25B	plug	female	for cable	12	soldering

Connector: DC supply; socket; SCHURTER



Mechanical mounting : for panel mounting, rear side nut

cont. on the next page

Power connectors

Connector: DC supply; socket; SCHURTER (cont.)

Panel cutout diameter : 12.8mm
 Electrical mounting : soldering
 Design : on/off switch

Symbol	Kind
4840.2200	male
4840.2230	female

Connector; ANDERSON POWER PRODUCTS



Electrical mounting : crimped
 Mechanical mounting : for cable
 Manufacturer series : Powerpole® PP15/45
 Connector : plug

Symbol	Colour
1327	red
1327G7	white
1327G21	brown
1327G6FP	black

Connector; for battery storage systems; HARTING



Pushing Performance
 Since 1945



Flammability rating : UL94V-0

Symbol	Application - series/manufacturer	Colour	Mechanical mounting	Connector
09930010101	Han® S, Han® S 200	black	for panel mounting	socket
09930010102	Han® S, Han® S 200	red	for panel mounting	socket
09930010501	Han® S, Han® S 200	black	for cable	plug
09930010502	Han® S, Han® S 200	red	for cable	plug

Connector; for battery storage systems; AMPHENOL GEC



Rated voltage : 1kV
 Mechanical durability : 100 cycles
 IP rating : IP2X, IP67

Symbol	Mechanical mounting	Kind
PL00X-301-10M8-2	flange (4 holes), for panel mounting	female
PL00Y-301-10M8-2	flange (4 holes), for panel mounting	female
PL182X-301-50-2-5	for cable	male
PL18Y-301-35-2-5	for cable	male

Plug; AC supply; PCE



Manufacturer series : TAURUS 2

Type of connector : AC supply
 U_{rated} : 250V AC
 I_{nom} : 16A
 Electrical mounting : screw terminal
 Wire : 2.5mm²
 IP rating : IP54

Symbol	Body col.	Marker colour
0521-ES	yellow	black
0521-RS	red	black
0521-SB	black	blue
0522-BS	blue	black
0522-SHE	black	yellow
0522-US	green	black

AC supply; PCE



Manufacturer series : Midnight

Type of connector : AC supply
 Polarisation : 6H
 IP rating : IP44
 Standard : IEC 60309

Symbol	Kind	Wire [mm ²]	U _{rated} [V AC]	I _{nom} [A]
013-6X	male	1...2.5	230	16
023-6X	male	2.5...6	230	32
115-6X	female	1...2.5	400	16
125-6X	female	2.5...6	400	32
213-6X	female	1...2.5	230	16
223-6X	female	2.5...6	230	32

Plug; AC supply 3-phase; PCE



Manufacturer series : Midnight

Type of connector : AC supply 3-phase
 U_{rated} : 400V AC
 Polarisation : 6H
 IP rating : IP44
 Standard : IEC 60309

Symbol	Kind	Wire [mm ²]	Pin	Layout	I _{nom} [A]
014-6X	male	1...2.5	4	3P+PE	16
025-6X	male	2.5...6	5	3P+N+PE	32
215-6X	female	1...2.5	5	3P+N+PE	16
224-6X	female	2.5...6	4	3P+PE	32

Connector: AC supply 3-phase; AMPHENOL



Standard : IEC 60309

Symbol	Connector	Spatial orientation
2CMA170027R1000	socket	angled
2CMA101080R1000	plug	straight
2CMA102041R1000	plug	straight
2CMA193132R1000	socket	angled

Connector: AC supply; PCE



Manufacturer series : Neutilus

Type of connector : AC supply
 U_{rated} : 250V AC
 I_{nom} : 16A
 Wire : 2.5mm²
 Type : round; with protective cap; with earthing
 IP rating : IP66, IP68

Symbol	Connector	Kind	Type	Colour
20051-B	plug	male	Uni-Schuko	blue
20241-B	socket	female		blue
20251-B	socket	female	Schuko	blue
20341-8U	socket	female		green
20342-8B	socket	female		blue
20342-8U	socket	female		green
20342-8UHP	socket	female		green
20352-8B	socket	female	Schuko	blue

Connector: AC supply; PLASTROL



Manufacturer series : Extrem

Electrical mounting : screw terminal

Type : round; with earthing

IP rating : IP54

Symbol Kind Type Body col. Marker colour

GN-54/BK-BK	female		black	black
GN-54/GR-BU	female		grey	blue
WT-54/BK-BK	male		black	black
WT-54/GR-BU	male	Uni-Schuko	grey	blue
ZWG-54/BK-RD	male; female	Uni-Schuko	black	red
ZWG-54/GR-RD	male; female	Uni-Schuko	grey	red

Connector: AC supply 3-phase; PCE



IP rating : IP44

Type of connector : AC supply 3-phase

U_{rated} : 400V AC

Polarisation : 6H

Symbol Mech. mounting Electr. mounting No. of pins

014-6	for cable	screw terminal	4
015-6TT	for cable	snap-on	5
025-6V	for cable	screw terminal	5
124-6	surface-mounted	screw terminal	4
215-6	for cable	screw terminal	5
315-6	flange (4 holes), for panel mounting	screw terminal	5
424-6	flange (4 holes), for panel mounting	screw terminal	4
515-6T	surface-mounted	screw terminal	5
525-6	surface-mounted	screw terminal	5
525-6T	surface-mounted	screw terminal	5

Connector: AC supply; 4H; PCE



Standard : IEC 60309

Type of connector : AC supply

U_{rated} : 110V AC

Polarisation : 4H

IP rating : IP44

Symbol Connector Kind Wire I_{nom} Manufacturer series

Symbol	Connector	Kind	Wire [mm ²]	I _{nom} [A]	Manufacturer series
013-4	plug	male	1...2.5	16	Shark
123-4	socket	female	2.5...6	32	-
213-4	plug	female	1...2.5	16	Shark
223-4	plug	female	2.5...6	32	Shark
313-4	socket	female	1...2.5	16	-
513-4	socket	male	1...2.5	16	-

Connector: AC supply 3-phase; PCE



U_{rated} : 400V AC

Polarisation : 6H

IP rating : IP67

Symbol Connector Kind Wire Pin I_{nom} Manufacturer series

Symbol	Connector	Kind	Wire [mm ²]	Pin	I _{nom} [A]	Manufacturer series
0142-6	plug	male	1...2.5	4	16	Shark
0252-6	plug	male	2.5...6	5	32	Shark
1252-6V	socket	female	2.5...6	5	32	-
135-6W	socket	female	6...16	5	63	-
145-6W	socket	female	16...50	5	125	-
2252-6	socket	female	2.5...6	5	32	Shark

Connector: AC supply; IP67; PCE



Type of connector : AC supply

U_{rated} : 230V AC

Polarisation : 6H

IP rating : IP67

Symbol Connector Kind Wire I_{nom} Manufacturer series

Symbol	Connector	Kind	Wire [mm ²]	I _{nom} [A]	Manufacturer series
0132-6	plug	male	1...2.5	16	Shark
1232-6	socket	female	2.5...6	32	-
2132-6	socket	female	1...2.5	16	Shark
5232-6KV	socket	male	2.5...6	32	-
9432007	socket	female	1...2.5	16	-
94326102	socket	female	1...2.5	16	-

Connector: AC supply 3-phase; PCE



U_{rated} : 400V AC

Polarisation : 6H

IP rating : IP44

Manufacturer series : GRIP

Symbol Connector Kind Electrical mounting Wire I_{nom}

Symbol	Connector	Kind	Electrical mounting	Wire [mm ²]	I _{nom} [A]
0153-6	plug	male	screw terminal	1...2.5	16
0253-6TT	plug	male	snap-on	2.5...6	32
2153-6	socket	female	screw terminal	1...2.5	16
2253-6TT	socket	female	snap-on	2.5...6	32
70153-6TT	plug	male	snap-on	1...2.5	16
70253-6	plug	male	screw terminal	2.5...6	32

Standard : IEC 60309

Connector: AC supply; 6H; PCE



Type of connector : AC supply

Polarisation : 6H

IP rating : IP44

Symbol Kind Mech. mounting Wire Manufacturer series

Symbol	Kind	Mech. mounting	Wire [mm ²]	Manufacturer series
013-6	male	for cable	1...2.5	Shark
023-6	male	for cable	2.5...6	Shark
113-6	female	surface-mounted	1...2.5	-
2331-6	female	for cable	6...16	-
513-6	male	surface-mounted	1...2.5	-
94325102	female	for cable	1...2.5	-

Socket; AC supply; PCE



Manufacturer series : TAURUS 2

Wire : 2.5mm²

Type : round; with earthing

Symbol Type IP rating Body col. Marker colour

Symbol	Type	IP rating	Body col.	Marker colour
2410-BSW		IP20	blue	black
2410-SDGW		IP20	black	grey
2411-SDGW	with protective cap	IP54	black	grey
2520-ES	Schuko	IP20	yellow	black

Power connectors

Socket; AC supply; JONEX



Type of connector : AC supply
 Connector : socket
 U_{rated} : 250V AC
 I_{nom} : 16A
 Type : round

Symbol	Pin	Spatial orientation	Type	IP rating	Colour
TX-GN-160KBI	2	angled 90°		IP20	white
TX-GN-161CZ	2	straight		IP20	black
TX-GN-170KCZ	3	angled 90°	with earthing	IP20	black
TX-GN-171BI	3	straight	with earthing	IP20	white
TX-GN-H1BI	2	straight		IP44	white
TX-GN-H2CZ	3	straight	with earthing	IP44	black

Symbol	Wire [mm ²]	Pin	I _{nom} [A]
414-6PKR	1...2.5	4	16
415-6PKR	1...2.5	5	16
424-6PKR	2.5...6	4	32
425-6PKG	2.5...6	5	32
81315-6	1...2.5	5	16
81325-6	2.5...6	5	32

Socket; AC supply; PAWBOL



Type of connector : AC supply
 U_{rated} : 250V AC
 I_{nom} : 16A
 IP rating : IP44

Symbol	Output
PD.3156	3x socket
PD.3159/2	2x socket
PD.3159/3	3x socket
PD.3159/4	4x socket

Socket; AC supply; for panel mounting; PCE



Electrical mounting : screw terminal
 Type : with earthing

Symbol	IP rating	Colour	Type
104-0E	IP54	yellow	
104-0R	IP54	red	
1050-0B	-	blue	Schuko
1050-0SS	-	black	side connection; Schuko
105-0E	IP54	yellow	Schuko

Socket; AC supply; plaster embedded; PCE



Type of connector : AC supply
 Mechanical mounting : plaster embedded
 U_{rated} : 400V AC
 Polarisation : 6H
 IP rating : IP44, IP54

Symbol	Wire [mm ²]	I _{nom} [A]
413-6PKR	1...2.5	16
423-6PKR	2.5...6	32

Socket; AC supply 3-phase; plaster embedded; PCE



Type of connector : AC supply 3-phase
 Connector : socket
 U_{rated} : 400V AC

Splitter; AC supply; PCE



U_{rated} : 250V AC
 I_{nom} : 16A
 Type : round; with hang hole; with earthing
 IP rating : IP44
 Output : 2x socket

Symbol	Type
24212-R	Schuko

Manufacturer series : TAURUS

Splitter; AC supply; 6H; PCE



U_{rated} : 230V AC
 I_{nom} : 16A

Symbol	Spatial orientation	Layout	IP rating	Cable length [m]
94325103	T	2x 2P+PE	IP44	-
94326103	T	2x 2P+PE	IP67	-
9432000	Y	3x 2P+PE	IP44	-
9432001	Y	3x 2P+PE	IP67	-
9432002	Y	3x 2P+PE	IP44	1.5
9432003	Y	3x 2P+PE	IP67	1.5
9432004	Y	3x 2P+PE	IP44	-

Splitter; AC supply 3-phase; 6H; PCE



U_{rated} : 400V AC
 Polarisation : 6H
 IP rating : IP44

Symbol	Layout	I _{nom} [A]	Structure
9430006W	3P+PE	16	supply 3P+PE socket x3
9430007W	3P+N+PE	16	supply 3P+N+PE socket x3
9430008W	3P+PE	32	supply 3P+PE socket x3
9430009W	3P+N+PE	32	supply 3P+N+PE socket x3

Plug; pluggable terminal block; AMPHENOL ANYTEK



Electrical mounting : screw terminal
 Rated voltage : 300V
 Contact plating : tinned
 Body material : thermoplastic
 Flammability rating : UL94V-0
 Operating temperature : -40...115°C

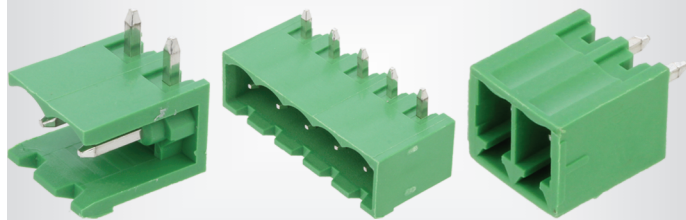
Symbol	Wire size	Wire cross-section [mm ²]	Contacts pitch [mm]	Pin
TJ0211530000G	28AWG...16AWG	1.5	3.5	2
TJ0611520000G	28AWG...16AWG	1.5	3.5	6
TJ0931520000G	28AWG...16AWG	1.5	3.81	9
TJ0971500000G	24AWG...12AWG	2.5	5	9

cont. on the next page

Plug; pluggable terminal block; AMPHENOL ANYTEK (cont.)

Symbol	Wire size	Wire cross-section [mm ²]	Contacts pitch [mm]	Pin
TJ0671520000G	24AWG...12AWG	2.5	5	6
TJ0971570000G	24AWG...12AWG	2.5	5	9

Socket; pluggable terminal block; AMPHENOL ANYTEK

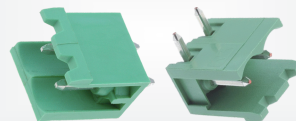


Kind : male
 Mechanical mounting : on PCBs
 Flammability rating : UL94V-0
 Contact plating : tinned
 Body material : thermoplastic
 Operating temperature : -40...115°C

Symbol	Contacts pitch [mm]	Spatial orientation	Pin
OQ021500D000G	3.5	straight	2
OQ0201010000G	7.62	angled	2
OQ0312510000G	3.5	angled	3
OQ043B00B000G	3.81	straight	4
OQ0654510300G	5.08	angled	6

Symbol	No. of ways	Layout
TBW-5-AMP-2P	2	1x2
TBW-5-AMP-3P	3	1x3
TBW-5-AMP-4P	4	1x4
TBW-5-AMP-5P	5	1x5
TBW-5-AMP-6P	6	1x6
TBW-5-AMP-8P	8	1x8
1-796634-0	10	1x10

Socket; pluggable terminal block; 5.08mm; TE Connectivity

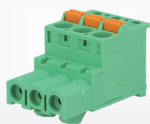


Type of connector : pluggable terminal block
 Connector : socket
 Kind : male
 Electrical mounting : THT
 Contacts pitch : 5.08mm
 Rated voltage : 250V
 Current rating : 12A
 Type : without side walls

Connectors features : assembling possibility

Symbol	Spatial orientation	No. of ways	Number of pins	Pin configuration
TBG-5-KB-2P	angled 90°	2	2	1x2
TBG-5-KB-3P	angled 90°	3	3	1x3
TBG-5-PB-2P	straight	2	2	1x2
TBG-5-PB-3P	straight	3	3	1x3

Plug; pluggable terminal block; DEGSON ELECTRONICS



Rated voltage : 320V
 Current rating : 20A
 Wire cross-section : 2.5mm²
 Manufacturer series : 2EDGKDB

Symbol	Contacts pitch [mm]	No. of ways
2EDGKDB-5.0-03P	5	3
2EDGKDB-5.08-04P	5.08	4

Accessories; PCE



Manufacturer : PCE
 Connector accessories : protection
 Connector : plug
 Kind : male
 IP rating : IP67
 Mechanical mounting : screwed

Symbol	Layout	No. of pins
20163	2P+PE	3
20165	3P+N+PE	5

Socket; pluggable terminal block; DEGSON ELECTRONICS



Contacts pitch : 5mm
 Rated voltage : 320V
 Current rating : 20A

Symbol	No. of ways
2EDGR-5.0-02P14	2
2EDGR-5.0-03P14	3

Soldering connectors and terminals

Terminal: flat; female; insulated

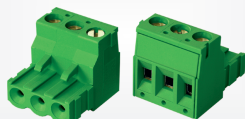
Ninigi



Mounting : crimped

Symbol	Cond. cross sec. [mm ²]	Colour
ST-005/R	0.5...1	red
ST-005/B	1.5...2.5	blue
ST-005/Y	4...6	yellow

Plug; pluggable terminal block; 5.08mm; TE Connectivity



Type of connector : pluggable terminal block
 Connector : plug
 Kind : female
 Spatial orientation : straight
 Rated voltage : 300V
 Contacts pitch : 5.08mm
 Current rating : 15A
 Wire cross-section : 0.03...2.5mm²
 Features : assembling possibility

Terminal: flat; complete set

Ninigi



Kind of terminal : female/male
 Max cable section : 2.5mm²
 Electrical mounting : crimped
 Insulator material : polypropylene
 Kit contents : complete set

cont. on the next page

Terminal: flat; complete set (cont.)

Symbol	No. of ways	Symbol	No. of ways
OK-1MF	1	OK-4MF	4
OK-2MF	2	OK-6MF	6
OK-3MF	3	OK-8MF	8

Terminal: flat; female; insulated; JST



Type of terminal : flat

Mounting : crimped

Symbol	Colour	Width [mm]	Conform to	Thickness [mm]	Wire [mm ²]
VDADF1.25-110A-8	red	2.8	DIN 46245	0.8	0.5...1.5
VDADF1.25-187A-8	red	4.8	DIN 46245	0.8	0.5...1.5
VDADF1.25-250A	red	6.3	DIN 46245	0.8	0.5...1.5
VDADF2-187A-8	blue	4.8	DIN 46245	0.8	1...2.5
VDADF5.5-250A	yellow	6.3	DIN 46245	0.8	2.5...6
FVDDF0.5-110A-8	yellow	2.8	CSA, UL	0.8	0.2...0.5
FVDDF1.25-110A-8	red	2.8	CSA, UL	0.8	0.5...1.5
FVDDF2-250A	blue	6.3	CSA, UL	0.8	1...2.5

Terminal: flat; with splitter, insulated; BM GROUP



Width : 6.3mm

Thickness : 0.8mm

Insulator material : PVC

Symbol Wire cross-section [mm²] Colour

BM00198 0.25...1.5 red

BM00298 1.5...2.5 blue

Terminal: flat; screw; BM GROUP



Width : 6.3mm

Thickness : 0.8mm

Hole for screw : M4

Electrical mounting : 6.3x0,8mm connectors

Symbol Contact plating Spatial orientation

BM01005 - angled

BM01014 - angled 90°

BM02011 tinned straight

Terminal: round; insulated; NICHIFU



Dia. : 4mm

Manufacturer series : WP

Symbol Cond. cross sec. [mm²] I_{max} [A] Kind

PC4009-F-WP 0.75...1.25 15 female

PC4009-M-WP 0.75...1.25 15 male

PC4020-F-WP 2 20 female

Tip: ring; in heat-shrinkable insulation; NINIGI



Symbol Hole Ring inside diam. [mm] Wire [mm²] Colour

ST-081/R-T M4 4.3 0.5...1.5 red

ST-081/B-T M4 4.3 1.5...2.5 blue

ST-081/Y-T M4 4.3 4...6 yellow

Tip: solder lug ring; OSTERRATH



Contact plating : tinned, nickel plated

Symbol Ring inside diam. [mm] Hole Orientation

STO-M3/NC 3.2 M3 straight

STO-M3K/NC 3.2 M3 angled 45°

STO-M3P/NC 3.2 M3 angled 90°

STO-M4/NC 4.3 M4 straight

73-2803-11/0030 3.2 M3 angled 45°

Tip: ring; insulated; MOLEX



Contact plating : tinned

Symbol Hole Wire cross-section [mm²]

MX-19324-0004 M4 0.5...1

MX-19324-0008 M4 1...2.5

MX-19324-0012 M4 2.5...6

Tip: ring; insulated; BM GROUP



Insulator material : PVC

Symbol Wire cross-section [mm²] Hole Ring inside diam. [mm] Colour

BM00101 0.25...1.5 M2,5 2.6 red

BM00201 1.5...2.5 M2,5 2.6 blue

BM00331 4...6 M6 6.2 yellow

Tip: ring; non-insulated; JST



Electrical mounting : crimped

Contact plating : tinned

Symbol Hole Wire cross-section [mm²] Ring inside diam. [mm]

GS8-2.5 M8 1...2.5 8.4

GS5-6 M5 2.5...6 5.3

GS10-10 M10 6...10 10.5

GS5-16 M5 10...16 5.3

GS10-25 M10 16...25 10.5

GS8-35 M8 25...35 8.4

Tip: ring; non-insulated; BM GROUP



Tip : ring

Mounting : crimped

Symbol Cond. cross sec. [mm²] Hole Ring inside diam. [mm]

BM01101 0.25...1.5 M2,5 2.6

BM01207 1.5...2.5 M3 3.2

BM01331 4...6 M6 6.2

BM02637 25 M8 8.4

BM91204 1...2.5 M4 4.3

BM91214 1...2.5 M4 4.3

Tip: ring tube; OUNEVA

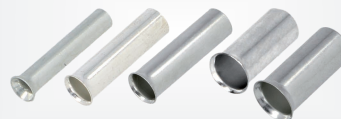


Contact material : copper

Contact plating : tinned

Symbol	Hole	Wire cross-section [mm ²]	Internal diameter [mm]
VA01-0095	M4	0.75	4.2
VA01-0133	M14	16	14
VA01-0103	M12	240	13
VA01-0092	M24	500	25

Tip: bootlace ferrule; non-insulated; BM GROUP



Contact plating : tinned

Electrical mounting : crimped

Symbol	Bit len. [mm]	Wire cross-section [mm ²]
BM01502	6	0.75
BM01509	12	4

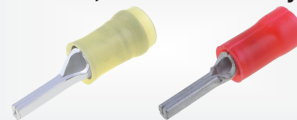
Tip: ring tube; WEIDMÜLLER



Electrical mounting : crimped

Symbol	Contact material	Hole	Sleeve internal diameter [mm]	Wire cross-section [mm ²]	Length [mm]	Spatial orientation
KP-M8/-16	copper	M8	5.5	16	37	-
KP-M10/-95	copper	M10	13.5	95	65.5	-
KP-M10/-185	copper	M10	19	185	83	-
1496550000	-	M8	8.5	35	34	-
KWN-M10/-7090	-	M10	12	70	-	angled

Tip: wire pin; insulated; TE Connectivity



Type of tip : wire pin

Mounting : crimped

Contact plating : tinned

Symbol	Colour	Length [mm]	Wire cross-section [mm ²]	Diameter [mm]	Manufacturer series
165142	red	6.7	0.3...1.42	1.8	-
165167	red	9.9	0.3...1.42	1.8	PLASTI-GRIP
165046	blue	6.7	1...2.5	1.8	-
165049	yellow	10	3...6	2.6	-

Tip: bootlace ferrule; insulated



Symbol	Cond. cross sec. [mm ²]	Bit len. [mm]	Colour
TUL-RI-00106	0.14	6	grey
TUL-RI-02510	2.5	10	blue
TUL-RI-06012	6	12	yellow
TUL-RI-16018	16	18	green

Tip: fork; insulated; BM GROUP

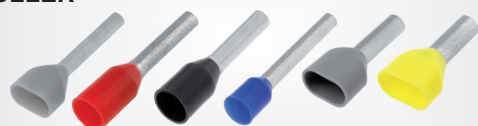


Symbol	Cond. cross sec. [mm ²]	Hole	Ring inside diam. [mm]	Insulator material	Colour
BM00102	0.25...1.5	M2,5	2.6	PVC	red
BM00202	1.5...2.5	M2,5	2.6	PVC	blue
BM00314	4...6	M3,5	3.7	PVC	yellow
BM80226	1.5...2.5	M5	5.2	polyamide	blue

Tip: bootlace ferrule; insulated;



WEIDMÜLLER



Symbol	Wire [mm ²]	Bit len. [mm]	Colour
H0.25/10T/GE	0.25	6	yellow
H10.0/30D2/RE	10	18	red
H2.5/20.5D2/BL	2.5	12	blue
H4.0/17D/GY	4	10	grey
H70.0/37/GE	70	20	yellow

Tip: flat; insulated; BM GROUP



Insulator material : PVC

Contact material : copper

Contact plating : tinned

Electrical mounting : crimped

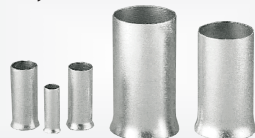
Mechanical mounting : for cable

Variant : insulated

Type of tip : flat

Symbol	Width [mm]	Colour	Length [mm]	Cond. cross sec. [mm ²]
BM00152	2.8	red	9	0.25...1.5
BM00153	3	red	14.5	0.25...1.5
BM00252	2.8	blue	9	1.5...2.5
BM00253	2.8	blue	16	1.5...2.5
BM00352	2.8	yellow	10.4	4...6
BM00353	4.5	yellow	18	4...6

Tip: bootlace ferrule; non-insulated



Contact plating : tinned

Electrical mounting : crimped

Symbol	Wire [mm ²]	Bit len. [mm]	Symbol	Wire [mm ²]	Bit len. [mm]
TUL-NI-02510	2.5	10	TUL-NI-25018	25	18
TUL-NI-10020	10	20	TUL-NI-50018	50	18
TUL-NI-16012	16	12			

Tip: splice; non-insulated; JST



The Quality Connection



Electrical mounting : crimped

Contact plating : tinned

Symbol	Bit len. [mm]	Wire cross-section [mm ²]
PSL-40T	5.5	0.6...1
PSL-60T	5.7	0.7...1.8

Butt splice; insulated; NICHIFU

Mounting : crimped

Contact plating : tinned

Variant : insulated

Symbol	Variant	Colour	Wire cross-section [mm ²]	Manufacturer series
--------	---------	--------	--	---------------------

TMNB-1.25-WP	sealed	red	0.5...1.25	WP
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TMNB-2-WP	sealed	blue	1.04...2.63	WP
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TMVB-1.25		red	0.3...1.65	-
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TMVB-2		blue	1.04...2.63	-
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TMVB-5.5		yellow	2.63...6.64	-
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Butt splice; non-insulated; TE Connectivity

AUTHORIZED DISTRIBUTOR

Electrical mounting : crimped

Symbol	Wire cross-section [mm ²]	Contact material	Contact plating	Operating temperature [°C]
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31818	0.3...1.42	brass	tinned	-
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323796	0.3...1.42	copper	nickel plated	max. 343
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34137	1.25...2	brass	tinned	-
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32151	3...6	brass	tinned	-
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Butt splice; for copper cables; non-insulated; BM GROUP

Electrical mounting : crimped

Application : for copper cables

Contact plating : tinned

Symbol	Wire cross-section [mm ²]
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BM01160	0.25...1.5
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BM01360	4...6
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BM01560	16
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Kit: self-soldering sleeve wire splices

Kit : self-soldering sleeve wire splices

Symbol	Shrinking ratio	Wire cross-section [mm ²]	Colour
--------	-----------------	--	--------

ST-ASS-HST3-1/1	3:1	0.2...0.5	white
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ST-ASS-HST3-1/2	3:1	0.5...1.5	red
-----------------	-----	-----------	-----

ST-ASS-HST3-1/3	3:1	1.5...2.5	blue
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ST-ASS-HST3-1/4	3:1	4...6	yellow
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ST-ASS-HST2-1/1.7	2:1	0.25...0.34	white
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ST-ASS-HST2-1/2.7	2:1	0.5...1	red
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ST-ASS-HST2-1/4.5	2:1	1.5...2.5	blue
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ST-ASS-HST2-1/6.0	2:1	4...6	yellow
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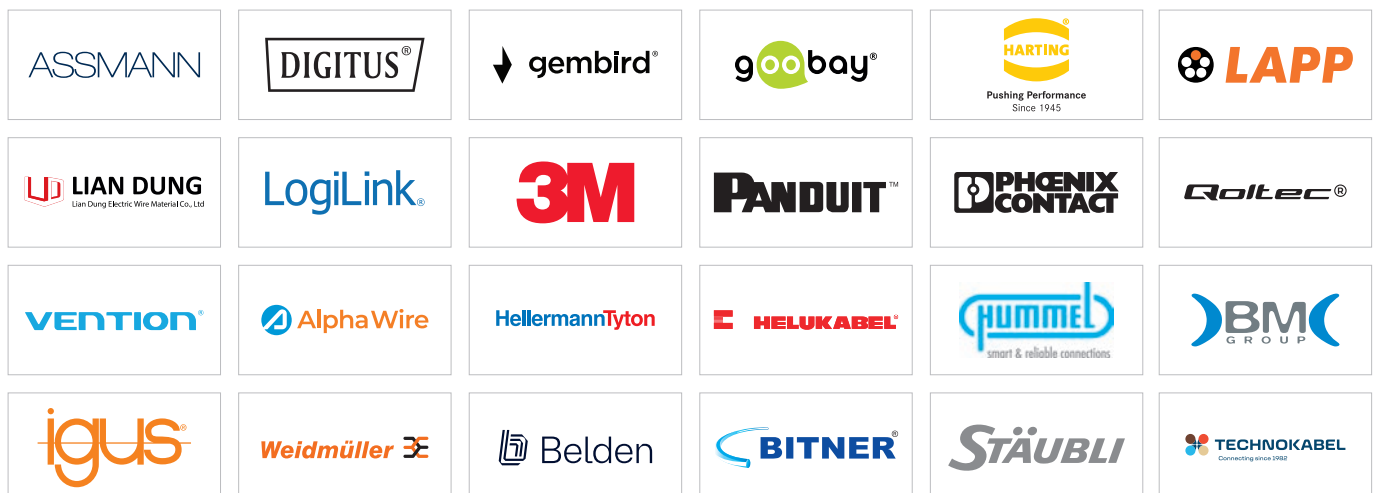
Cables and accessories

TME offers various types of cables, connection wires, as well as braids and sleeves in different sizes and versions. Depending on the type of products, customers can purchase cables by the meter or in rolls.

At TME you will find, among others:

- Single- and multi-core wires
- Data transmission cables
- Fiber optic patch cords and pigtailed
- USB and RJ45 cables
- Cable trays, ducts, protective pipes, and protective braids
- Cable ties, markers, bushings, and joints

Our portfolio includes, among others:



The 4Factory catalogue is only a representation of TME's full offer.

Visit our website to discover it in full.



Cables	134
Connecting leads	153
Cables accessories	159

Cables

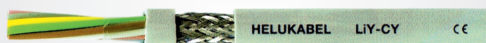
Wire: data transmission; LIYY; HELUKABEL



Manufacturer : HELUKABEL
 Kind of core : Cu
 Core : stranded
 Operating temperature : -40...80°C
 Flexibility class : 5
 Wire insulation material : PVC
 Insulation colour : grey
 CPR standard : E_{ca}

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
LIYY2X0.14	3.5	2	0.14
LIYY2X0.25	3.8	2	0.25
LIYY2X0.34	4.2	2	0.34
LIYY2X0.5	4.6	2	0.5
LIYY2X0.75	5.2	2	0.75
LIYY2X1	5.6	2	1
LIYY2X1.5	6.3	2	1.5
LIYY3X0.14	3.7	3	0.14
LIYY3X0.25	4	3	0.25
LIYY3X0.34	4.4	3	0.34
LIYY3X0.5	4.9	3	0.5
LIYY3X0.75	5.5	3	0.75
LIYY3X1	5.9	3	1
LIYY3X1.5	6.9	3	1.5
LIYY4X0.14	3.9	4	0.14
LIYY4X0.34	4.8	4	0.34
LIYY5X0.34	5.4	5	0.34
LIYY7X0.14	4.6	7	0.14
LIYY7X0.5	6.8	7	0.5
LIYY8X0.34	7.1	8	0.34
LIYY10X0.34	7.6	10	0.34
LIYY12X0.14	6.1	12	0.14
LIYY12X0.34	7.8	12	0.34
LIYY16X0.5	10	16	0.5
LIYY18X0.25	8.3	18	0.25
LIYY21X0.14	7.6	21	0.14
LIYY24X0.5	12.7	24	0.5
LIYY25X0.25	10	25	0.25
LIYY25X0.34	11.4	25	0.34
LIYY27X0.25	10.1	27	0.25
LIYY30X0.14	8.9	30	0.14
LIYY30X0.25	10.3	30	0.25
LIYY40X0.34	14	40	0.34

Wire: data transmission; LiY-CY; HELUKABEL



Manufacturer : HELUKABEL
 Manufacturer series : TRONIC CY
 Shield structure : shielded, tinned copper braid
 Kind of core : Cu
 Core : stranded
 Operating temperature : -40...80°C
 Flexibility class : 5
 Wire insulation material : PVC
 Insulation colour : grey
 Core marking : colours without colour repetition
 CPR standard : E_{ca}
 Kind of material : no flame propagation
 Resistance to : most of oils, most of chemical compounds
 Ground : tinned copper strand Ø0,4mm

Information : more products from this series available on www.tme.eu

Symbol	U _{rated} [V]	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
LIICY-1X0.34	500	3.2	1	0.34
LIICY-1X0.75	500	3.8	1	0.75
LIICY2X0.25	500	4.3	2	0.25
LIICY2X0.34	500	4.9	2	0.34
LIICY2X1	500	6.3	2	1
LIICY3X0.25	500	4.5	3	0.25
LIICY3X0.5	500	5.6	3	0.5
LIICY3X1	500	6.7	3	1

LIICY-1X0.34	500	3.2	1	0.34
LIICY2X0.25	500	4.3	2	0.25
LIICY3X1.5	500	7.7	3	1.5
LIICY5X0.14	350	4.7	5	0.14
LIICY5X0.25	500	5.4	5	0.25
LIICY5X0.5	500	6.8	5	0.5
LIICY5X1	500	8	5	1
LIICY6X0.14	350	5.2	6	0.14
LIICY7X0.14	350	5.2	7	0.14
LIICY7X0.25	500	5.8	7	0.25
LIICY7X0.75	500	8.1	7	0.75
LIICY7X1.5	500	9.9	7	1.5
LIICY8X0.34	500	7.5	8	0.34
LIICY8X0.75	500	9.4	8	0.75
LIICY10X0.14	350	6.5	10	0.14
LIICY10X0.25	500	7.3	10	0.25
LIICY10X0.34	500	8.4	10	0.34
LIICY12X0.14	350	6.7	12	0.14
LIICY12X0.25	500	7.5	12	0.25
LIICY12X0.34	500	8.6	12	0.34
LIICY12X0.5	500	9.6	12	0.5
LIICY12X0.75	500	10.5	12	0.75
LIICY14X0.25	500	8.1	14	0.25
LIICY16X0.14	350	7.3	16	0.14
LIICY16X0.5	500	10.6	16	0.5
LIICY16X0.75	500	11.8	16	0.75
LIICY18X0.14	350	7.6	18	0.14
LIICY18X0.34	500	10.1	18	0.34
LIICY20X0.14	350	8.1	20	0.14
LIICY20X0.75	500	13.3	20	0.75
LIICY21X0.34	500	10.9	21	0.34
LIICY24X0.5	500	13.2	24	0.5
LIICY25X0.14	350	9.1	25	0.14
LIICY25X0.25	500	10.6	25	0.25
LIICY25X0.75	500	15	25	0.75
LIICY30X0.14	350	9.5	30	0.14
LIICY32X0.14	350	9.9	32	0.14
LIICY32X0.34	500	13	32	0.34
LIICY32X0.75	500	16.3	32	0.75
LIICY36X0.5	500	15.5	36	0.5
LIICY36X0.75	500	17.2	36	0.75
LIICY40X0.14	350	11.1	40	0.14
LIICY40X0.75	500	18.5	40	0.75

Wire: data transmission; PROFIBUS; HELUKABEL



Manufacturer : HELUKABEL
 Kind of core : Cu
 Core marking : colours without colour repetition

Symbol	Core	Cable ext. dia. [mm]	Number of cores	Core diameter [mm]
PROFIBUS-L2-IN-VI	wire	7.8	2	0.34
PROFIBUS-L2-IN-GY	wire	7.8	2	0.34
PROFIBUS-L2-DB	wire	10	2	0.64
PROFIBUS-L2	wire	10.6	2	0.64
PROFIBUS-L2-DC-VI	stranded	8	2	0.25
PROFIBUS-L2-DC-TB	stranded	8	2	0.25
PROFIBUS-L2-OUT	wire	8	2	0.34
PROFIBUS-L2-IND	wire	8	2	0.34
PROFIBUS-L2-VI	stranded	7.8	2	0.64
PROFIBUS-L2-HYB	stranded	9.7	5	0.64; 1
PROFIBUS-L2-PVC	stranded	8	2	0.65

Wire: test lead cable; Silivolt® -1V; STÄUBLI



Manufacturer : STÄUBLI
 Kind of core : Cu
 Core : stranded
 Operating temperature : -50...90°C
 Flexibility class : 6
 Wire insulation material : silicone
 Number of cores : 1
 Conform to the norm : E175157
 Kind of material : halogen free

Information : more products from this series available on www.tme.eu

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Wire: test lead cable; Silivolt®-1V; STÄUBLI (cont.)

Symbol	Rated volt. [V]	Colour	Core section [mm ²]
SILI-1V/0.15B	300	black	0.15
SILI-1V/0.15R	300	red	0.15
SILI-1V/0.15YL	300	yellow	0.15
SILI-1V/0.25BL	300	blue	0.25
SILI-1V/0.5B	1.5k	black	0.5
SILI-1V/0.5GR	1.5k	green	0.5
SILI-1V/0.5R	1.5k	red	0.5
SILI-1V/0.5YL	1.5k	yellow	0.5
SILI-1V/0.75/3.2B	1.5k	black	0.75
SILI-1V/0.75/3.2R	1.5k	red	0.75
SILI-1V/0.75BL	1.5k	blue	0.75
SILI-1V/0.75GR	1.5k	green	0.75
SILI-1V/0.75WH	1.5k	white	0.75
SILI-1V/0.75YL	1.5k	yellow	0.75
SILI-1V/1.0BL	1.5k	blue	1
SILI-1V/1.0BR	1.5k	brown	1
SILI-1V/1.0GY	1.5k	grey	1
SILI-1V/1.0VI	1.5k	violet	1
SILI-1V/1.0YG	1.5k	yellow-green	1
SILI-1V/1.5B	1.5k	black	1.5
SILI-1V/1.5R	1.5k	red	1.5
SILI-1V/2.0B	1.5k	black	2
SILI-1V/2.0R	1.5k	red	2
SILI-1V/2.5B	1.5k	black	2.5
SILI-1V/2.5BR	1.5k	brown	2.5
SILI-1V/2.5GY	1.5k	grey	2.5
SILI-1V/2.5R	1.5k	red	2.5

Wire: test lead cable; FlexiVolt-2V; STÄUBLI



Manufacturer	: STÄUBLI
Kind of wire	: FlexiVolt-2V, Flexivolt®
Rated volt.	: 1.5kV
Kind of core	: Cu
Core	: stranded
Operating temperature	: -10...70°C
Flexibility class	: 6
Wire insulation material	: PVC
Conform to the norm	: E175157

Information : more products from this series available on www.tme.eu

Symbol	Colour	Cable ext. dia. [mm]	Core section [mm ²]
60.7026-21	black	2	0.25
60.7026-22	red	2	0.25
60.7026-23	blue	2	0.25
60.7027-21	black	2.3	0.5
60.7027-22	red	2.3	0.5
60.7027-23	blue	2.3	0.5
60.7028-21	black	3.5	0.75
60.7028-22	red	3.5	0.75
60.7028-23	blue	3.5	0.75
60.7941-20	yellow-green	3.9	0.75
60.7941-21	black	3.9	0.75
60.7941-22	red	3.9	0.75
60.7941-23	blue	3.9	0.75
60.7941-24	yellow	3.9	0.75
60.7941-25	green	3.9	0.75
60.7941-27	brown	3.9	0.75
60.7030-21	black	3.9	1
60.7030-22	red	3.9	1
60.7030-23	blue	3.9	1
60.7030-24	yellow	3.9	1
60.7030-25	green	3.9	1
60.7030-26	violet	3.9	1
60.7030-27	brown	3.9	1
60.7030-29	white	3.9	1
60.7031-21	black	3.9	1.5
60.7031-22	red	3.9	1.5
60.7031-23	blue	3.9	1.5
60.7032-21	black	4.4	2.5
60.7032-22	red	4.4	2.5
60.7032-23	blue	4.4	2.5
60.7032-24	yellow	4.4	2.5
60.7032-25	green	4.4	2.5
60.7032-26	violet	4.4	2.5
60.7033-20	green-yellow	3.9	2.5
60.7033-21	black	3.9	2.5
60.7033-22	red	3.9	2.5

Symbol	Colour	Cable ext. dia. [mm]	Core section [mm ²]
60.7033-23	blue	3.9	2.5
60.7033-24	yellow	3.9	2.5
60.7033-25	green	3.9	2.5
60.7033-29	white	3.9	2.5
60.7034-21	black	6	4
60.7034-22	red	6	4
60.7034-23	blue	6	4
60.7035-21	black	7	6
60.7035-22	red	7	6
60.7035-23	blue	7	6

Wire: control cable; ÖLFLEX® FD CLASSIC 810 CY; LAPP

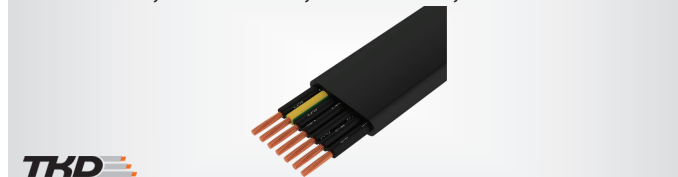


Manufacturer	: LAPP
Shield structure	: shielded, tinned copper braid
Rated volt.	: 300V/500V
Kind of core	: Cu
Core	: stranded
Operating temperature	: -40...80°C
Wire insulation material	: PVC
Insulation colour	: grey
Kind of material	: flame retardant
Application	: power chain

Information : more products from this series available on www.tme.eu

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
CL-FD810CY-2X0.5	6.9	2	0.5
CL-FD810CY-2X0.75	7.3	2	0.75
CL-FD810CY-2X1	7.7	2	1
CL-FD810CY-2X1.5	8.4	2	1.5
CL-FD810CY-3G0.5	7.3	3	0.5
CL-FD810CY-3G0.75	7.8	3	0.75
CL-FD810CY-3G1	8.2	3	1
CL-FD810CY-3G1.5	9	3	1.5
CL-FD810CY-3G2.5	10.8	3	2.5
CL-FD810CY-4G0.5	7.9	4	0.5
CL-FD810CY-4G0.75	8.4	4	0.75
CL-FD810CY-4G1	8.9	4	1
CL-FD810CY-4G1.5	9.9	4	1.5
CL-FD810CY-4G10	20.2	4	10
CL-FD810CY-4G16	23.6	4	16
CL-FD810CY-4G2.5	11.8	4	2.5
CL-FD810CY-4G4	13.7	4	4
CL-FD810CY-4G6	16.1	4	6
CL-FD810CY-5G0.5	8.4	5	0.5
CL-FD810CY-5G0.75	9	5	0.75
CL-FD810CY-5G1	9.8	5	1
CL-FD810CY-5G1.5	10.9	5	1.5
CL-FD810CY-5G2.5	13.2	5	2.5
CL-FD810CY-5G4	15.3	5	4
CL-FD810CY-7G0.5	9.8	7	0.5
CL-FD810CY-7G0.75	10.7	7	0.75
CL-FD810CY-7G1	11.4	7	1
CL-FD810CY-7G1.5	12.7	7	1.5
CL-FD810CY-12G0.50	11.3	12	0.5
CL-FD810CY-12G0.75	12.4	12	0.75
CL-FD810CY-12G1	13.4	12	1
CL-FD810CY-12G1.5	15.1	12	1.5
CL-FD810CY-18G0.5	13.4	18	0.5
CL-FD810CY-18G0.75	14.9	18	0.75
CL-FD810CY-18G1	16.1	18	1
CL-FD810CY-18G1.5	17.8	18	1.5
CL-FD810CY-25G0.5	15.9	25	0.5
CL-FD810CY-25G0.75	17.4	25	0.75
CL-FD810CY-25G1	18.8	25	1
CL-FD810CY-25G1.5	21.2	25	1.5
CL-FD810CY-30G0.5	16.5	30	0.5
CL-FD810CY-34G1	21.5	34	1
CL-FD810CY-41G1	23.2	41	1
CL-FD810CY-50G1	25.3	50	1

Wire: mains; H07VVH6-F; unshielded; TKD



Manufacturer	: TKD
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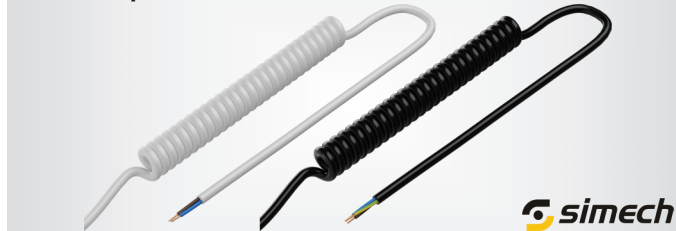
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Wire: mains; H07VVH6-F; unshielded; TKD (cont.)

Shield structure : unshielded
 Rated volt. : 450V/750V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -20...60°C
 Wire insulation material : PVC
 Insulation colour : black
 Shape : flat
 Kind of material : no flame propagation

Symbol	Number of cores	Core section [mm ²]	Earth core	Ext. dimensions [mm]
TKD-3000578	4	1.5	none	5x14.5
TKD-3000616	4	1.5	yellow-green	5x14.5
TKD-3000618	4	10	yellow-green	9.1x27.8
TKD-3000621	4	16	yellow-green	10.8x35.5
TKD-3000623	4	2.5	yellow-green	5.7x17.9
TKD-3000631	4	4	yellow-green	6.6x20.2
TKD-3000634	4	6	yellow-green	7.2x22.2
TKD-3000640	5	4	yellow-green	6.6x24.6
TKD-3000642	5	1.5	yellow-green	5x17.3
TKD-3000644	5	6	yellow-green	7.2x26.6
TKD-3000645	5	10	yellow-green	9.1x34.9
TKD-3000646	5	16	yellow-green	11.2x43.5
TKD-3000647	5	2.5	yellow-green	5.7x21.2
TKD-3000648	7	1.5	yellow-green	5x25.3
TKD-3000650	7	2.5	yellow-green	5.7x31.3
TKD-3000652	7	4	yellow-green	6.6x35.6
TKD-3000653	7	6	yellow-green	7.4x43
TKD-3000655	8	1.5	yellow-green	5x27.8
TKD-3000657	8	2.5	yellow-green	5.7x33.2
TKD-3000581	10	1.5	yellow-green	5x33.7
TKD-3000589	12	1.5	yellow-green	5x39.5
TKD-3000593	12	2.5	yellow-green	5.7x49.1
TKD-3000596	14	1.5	yellow-green	5x46.5
TKD-3000598	16	1.5	yellow-green	5x51.9
TKD-3000603	18	1.5	yellow-green	5x59.3
TKD-3000611	24	1.5	yellow-green	5.2x83
TKD-3000612	24	2.5	yellow-green	5.9x102

SIMECH Spiral Cables FS-05VQ-F



Manufacturer : SIMECH
 Shield structure : unshielded
 Rated volt. : 300V/500V
 Kind of core : Cu
 Core : stranded
 Operating temperature : 5...70°C
 Wire insulation material : PUR

Information : more products from this series available on www.tme.eu

Symbol	Number of cores	Core section [mm ²]	Leng. before stretch. [m]	Leng. after stretch. [m]
SPT00001B	2	0.75	0.1	0.35
SPT00001C	2	0.75	0.1	0.35
SPT00009B	2	1	0.2	0.7
SPT00009C	2	1	0.2	0.7
SPT00017B	2	1.5	0.3	1.05
SPT00017C	2	1.5	0.3	1.05
SPT00025B	3	0.75	0.5	1.75
SPT00025C	3	0.75	0.5	1.75
SPT00033B	3	1	0.8	2.8
SPT00033C	3	1	0.8	2.8
SPT00041B	3	1.5	1	3.5
SPT00041C	3	1.5	1	3.5
SPT00042B	3	1.5	1.5	5.25
SPT00042C	3	1.5	1.5	5.25

SIMECH Spiral Cables LiY11Y

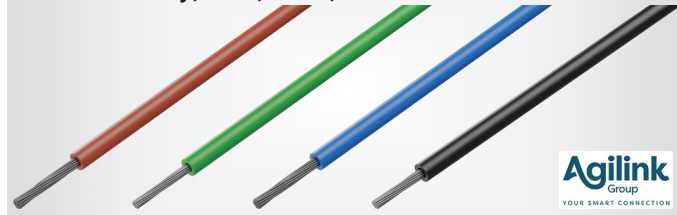


Manufacturer : SIMECH
 Shield structure : unshielded
 Rated volt. : 300V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -5...90°C
 Wire insulation material : PUR

Information : more products from this series available on www.tme.eu

Symbol	Number of cores	Core section [mm ²]	Leng. before stretch. [m]	Leng. after stretch. [m]
SPT00043B	2	0.15	0.1	0.4
SPT00043C	2	0.15	0.1	0.4
SPT00051B	3	0.15	0.2	0.8
SPT00051C	3	0.15	0.2	0.8
SPT00059B	4	0.15	0.3	1.2
SPT00059C	4	0.15	0.3	1.2
SPT00067B	5	0.15	0.5	2
SPT00067C	5	0.15	0.5	2
SPT00075B	6	0.15	0.8	3.2
SPT00075C	6	0.15	0.8	3.2
SPT00083B	7	0.15	1	4
SPT00083C	7	0.15	1	4
SPT00091B	2	0.22	1.5	6
SPT00091C	2	0.22	1.5	6
SPT00092B	3	0.22	0.1	0.4
SPT00092C	3	0.22	0.1	0.4
SPT00093B	3	0.22	0.2	0.8
SPT00100B	4	0.22	0.2	0.8
SPT00100C	4	0.22	0.2	0.8
SPT00108B	5	0.22	0.3	1.2
SPT00108C	5	0.22	0.3	1.2
SPT00116B	6	0.22	0.5	2
SPT00116C	6	0.22	0.5	2
SPT00124B	7	0.22	0.8	3.2
SPT00124C	7	0.22	0.8	3.2
SPT00132B	2	0.35	1	4
SPT00132C	2	0.35	1	4
SPT00140B	3	0.35	1.5	6
SPT00140C	3	0.35	1.5	6
SPT00148B	5	0.35	0.1	0.4
SPT00148C	5	0.35	0.1	0.4
SPT00156B	6	0.35	0.2	0.8
SPT00156C	6	0.35	0.2	0.8
SPT00164B	7	0.35	0.3	1.2
SPT00164C	7	0.35	0.3	1.2
SPT00172B	2	0.5	0.5	2
SPT00172C	2	0.5	0.5	2
SPT00180B	3	0.5	0.8	3.2
SPT00180C	3	0.5	0.8	3.2
SPT00188B	4	0.5	1	4
SPT00188C	4	0.5	1	4
SPT00197B	6	0.5	0.1	0.4
SPT00197C	6	0.5	0.1	0.4
SPT00205B	7	0.5	0.2	0.8
SPT00205C	7	0.5	0.2	0.8
SPT00210B	7	0.5	1.5	6
SPT00210C	7	0.5	1.5	6

Wire: assembly; PFA; 600V; AGILINK MICROWIRES



Manufacturer : AGILINK MICROWIRES
 Rated volt. : 600V
 Kind of core : Cu, silver plated
 Core : stranded
 Operating temperature : -196...200°C
 Wire insulation material : PFA

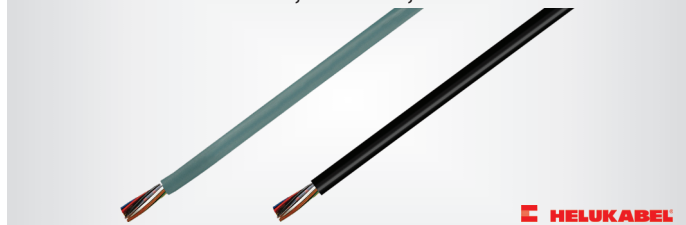
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Wire: assembly; PFA; 600V; AGILINK MICROWIRES (cont.)

Information : more products from this series available on www.tme.eu

Symbol	Insulation colour	Core diameter [AWG]
UCA-2619-BK-A	black	26
UCA-2619-BL-A	blue	26
UCA-2619-BR-A	brown	26
UCA-2619-GR-A	green	26
UCA-2619-GY-A	grey	26
UCA-2619-OR-A	orange	26
UCA-2619-PK-A	pink	26
UCA-2619-RD-A	red	26
UCA-2619-TR-A	transparent	26
UCA-2619-VI-A	violet	26
UCA-2619-WH-A	white	26
UCA-2619-YL-A	yellow	26
UCA-2819-BK-A	black	28
UCA-2819-BL-A	blue	28
UCA-2819-BR-A	brown	28
UCA-2819-GR-A	green	28
UCA-2819-GY-A	grey	28
UCA-2819-OR-A	orange	28
UCA-2819-PK-A	pink	28
UCA-2819-RD-A	red	28
UCA-2819-TR-A	transparent	28
UCA-2819-VI-A	violet	28
UCA-2819-WH-A	white	28
UCA-2819-YL-A	yellow	28
UCA-3019-BK-A	black	30
UCA-3019-BL-A	blue	30
UCA-3019-BR-A	brown	30
UCA-3019-GR-A	green	30
UCA-3019-GY-A	grey	30
UCA-3019-OR-A	orange	30
UCA-3019-PK-A	pink	30
UCA-3019-RD-A	red	30
UCA-3019-TR-A	transparent	30
UCA-3019-VI-A	violet	30
UCA-3019-WH-A	white	30
UCA-3019-YL-A	yellow	30

Wire: data transmission; LiYY-UL; HELUKABEL



Manufacturer : HELUKABEL
 Shield structure : unshielded
 Rated volt. : 300V
 Wire insulation material : PVC
 Kind of core : Cu, tinned
 Core : stranded
 Operating temperature : -10...80°C
 Resistance to : flame, most of dissolvents, most of oils, most of solvents

Information : more products from this series available on www.tme.eu

Conform to the norm : CSA FT1,
 UL 1581,
 UL 2464,
 VW-1

Symbol	Core diameter [AWG]	Number of cores	Conform to the norm
LIYY-BK-UL3X16AWG	16	3	UL 1007/1569
LIYY-BK-UL10X16AWG	16	10	UL 1007/1569
LIYY-BK-UL12X16AWG	16	12	UL 1007/1569
LIYY-UL-18X16AWG	16	18	UL 1007/1569
LIYY-BK-UL2X18AWG	18	2	UL 1007/1569
LIYY-UL-2X18AWG	18	2	UL 1007/1569
LIYY-BK-UL3X18AWG	18	3	UL 1007/1569
LIYY-UL-3X18AWG	18	3	UL 1007/1569
LIYY-BK-UL4X18AWG	18	4	UL 1007/1569
LIYY-UL-4X18AWG	18	4	UL 1007/1569
LIYY-BK-UL6X18AWG	18	6	UL 1007/1569
LIYY-BK-UL10X18AWG	18	10	UL 1007/1569
LIYY-BK-UL12X18AWG	18	12	UL 1007/1569
LIYY-UL-12X18AWG	18	12	UL 1007/1569
LIYY-BK-UL2X20AWG	20	2	UL 1061/1729
LIYY-UL-2X20AWG	20	2	UL 1061/1729
LIYY-BK-UL3X20AWG	20	3	UL 1061/1729
LIYY-UL-3X20AWG	20	3	UL 1061/1729
LIYY-BK-UL4X20AWG	20	4	UL 1061/1729

LIYY-BK-UL3X18AWG	18	3	UL 1007/1569
LIYY-UL-3X18AWG	18	3	UL 1007/1569
LIYY-UL-4X20AWG	20	4	UL 1061/1729
LIYY-BK-UL6X20AWG	20	6	UL 1061/1729
LIYY-UL-6X20AWG	20	6	UL 1061/1729
LIYY-BK-UL10X20AWG	20	10	UL 1061/1729
LIYY-UL-10X20AWG	20	10	UL 1061/1729
LIYY-BK-UL12X20AWG	20	12	UL 1061/1729
LIYY-BK-UL16X20AWG	20	16	UL 1061/1729
LIYY-BK-UL2X22AWG	22	2	UL 1061/1729
LIYY-UL-2X22AWG	22	2	UL 1061/1729
LIYY-BK-UL3X22AWG	22	3	UL 1061/1729
LIYY-UL-3X22AWG	22	3	UL 1061/1729
LIYY-BK-UL4X22AWG	22	4	UL 1061/1729
LIYY-UL-4X22AWG	22	4	UL 1061/1729
LIYY-BK-UL6X22AWG	22	6	UL 1061/1729
LIYY-UL-6X22AWG	22	6	UL 1061/1729
LIYY-BK-UL10X22AWG	22	10	UL 1061/1729
LIYY-BK-UL12X22AWG	22	12	UL 1061/1729
LIYY-UL-12X22AWG	22	12	UL 1061/1729
LIYY-BK-UL18X22AWG	22	18	UL 1061/1729
LIYY-UL-18X22AWG	22	18	UL 1061/1729
LIYY-BK-UL27X22AWG	22	27	UL 1061/1729
LIYY-BK-UL2X24AWG	24	2	UL 1061/1729
LIYY-UL-2X24AWG	24	2	UL 1061/1729
LIYY-BK-UL3X24AWG	24	3	UL 1061/1729
LIYY-UL-3X24AWG	24	3	UL 1061/1729
LIYY-BK-UL4X24AWG	24	4	UL 1061/1729
LIYY-UL-4X24AWG	24	4	UL 1061/1729
LIYY-BK-UL6X24AWG	24	6	UL 1061/1729
LIYY-UL-6X24AWG	24	6	UL 1061/1729
LIYY-BK-UL10X24AWG	24	10	UL 1061/1729
LIYY-BK-UL12X24AWG	24	12	UL 1061/1729
LIYY-BK-UL16X24AWG	24	16	UL 1061/1729
LIYY-UL-16X24AWG	24	16	UL 1061/1729
LIYY-BK-UL2X26AWG	26	2	UL 1061/1729
LIYY-UL-2X26AWG	26	2	UL 1061/1729
LIYY-BK-UL3X26AWG	26	3	UL 1061/1729
LIYY-UL-3X26AWG	26	3	UL 1061/1729
LIYY-BK-UL4X26AWG	26	4	UL 1061/1729
LIYY-UL-4X26AWG	26	4	UL 1061/1729
LIYY-BK-UL6X26AWG	26	6	UL 1061/1729
LIYY-UL-6X26AWG	26	6	UL 1061/1729
LIYY-BK-UL10X26AWG	26	10	UL 1061/1729
LIYY-UL-10X26AWG	26	10	UL 1061/1729
LIYY-BK-UL12X26AWG	26	12	UL 1061/1729
LIYY-UL-12X26AWG	26	12	UL 1061/1729
LIYY-BK-UL16X26AWG	26	16	UL 1061/1729
LIYY-UL-16X26AWG	26	16	UL 1061/1729
LIYY-BK-UL27X26AWG	26	27	UL 1061/1729

Wire: control cable; BiT 500 (ST) CH B2ca; BITNER



Manufacturer : BITNER
 Shield structure : shielded twofold, Al-PET foil, tinned copper braid
 Rated volt. : 300V/500V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -40...80°C
 Wire insulation material : LSZH
 Insulation colour : grey
 CPR standard : B_{2ca}
 Resistance to : UV rays

Information : more products from this series available on www.tme.eu

Symbol	Number of cores	Core section [mm ²]	Cable ext. dia. [mm]
BITNER-SB7125	2	0.5	5.5
BITNER-SB7126	3	0.5	5.8
BITNER-SB7128	4	0.5	6.2
BITNER-SB7380	4	0.5	7.8
BITNER-SB7133	7	0.5	7.5
BITNER-SB7382	8	0.5	9.8
BITNER-SB7386	16	0.5	12.8
BITNER-SB7388	24	0.5	14.7
BITNER-SB7156	2	0.75	5.9
BITNER-SB7157	3	0.75	6.2
BITNER-SB7159	4	0.75	6.9
BITNER-SB7395	4	0.75	8.4
BITNER-SB7161	5	0.75	7.5

cont. on the next page

Cables

Wire: control cable; BIT 500 (ST) CH B2ca; BITNER (cont.)

Symbol	Number of cores	Core section [mm ²]	Cable ext. dia. [mm]
BITNER-SB7165	7	0.75	8.1
BITNER-SB7397	8	0.75	10.6
BITNER-SB7170	12	0.75	10.7
BITNER-SB7401	16	0.75	14.1
BITNER-SB7403	24	0.75	16.5
BITNER-SB7188	2	1	6.2
BITNER-SB7189	3	1	6.5
BITNER-SB7191	4	1	7.3
BITNER-SB7193	5	1	7.9
BITNER-SB7197	7	1	8.5
BITNER-SB7202	12	1	11.5
BITNER-SB7221	2	1.5	7.2
BITNER-SB7222	3	1.5	7.6
BITNER-SB7224	4	1.5	8.3
BITNER-SB7226	5	1.5	9.4
BITNER-SB7230	7	1.5	10.1
BITNER-SB7253	3	2.5	9.2
BITNER-SB7257	5	2.5	10.8
BITNER-SB7261	7	2.5	12

Braids; insulated earthing tape; CONNECT



Manufacturer : CONNECT

Electrical insulation : 20kV/mm

Operating temperature : max. 105°C

Information : more products from this series available on www.tme.eu

Symbol	Wire cross-section [mm ²]	Ø1 [mm]	Ø2 [mm]	Length [mm]	Current rating [A]
IST-010-100-0707-D	10	7	7	100	75
IST-016-200-0909-D	16	9	9	200	120
IST-025-300-0909-D	25	9	9	300	135
IST-035-400-1111-D	35	11	11	400	195
IST-050-500-1111-D	50	11	11	500	250
IST-070-200-1313-D	70	13	13	200	290
IST-095-300-1717-D	95	17	17	300	330
IST-120-400-1717-D	120	17	17	400	420
IKT-010-100-0707-D	10	7	7	100	75
IKT-016-200-0909-D	16	9	9	200	120
IKT-025-300-0909-D	25	9	9	300	135
IKT-035-400-1111-D	35	11	11	400	195
IKT-050-500-1111-D	50	11	11	500	250
IKT-070-200-1313-D	70	13	13	200	290
IKT-095-300-1717-D	95	17	17	300	330
IKT-120-400-1717-D	120	17	17	400	420

Braids; earthing tape; CONNECT



Manufacturer : CONNECT

Information : more products from this series available on www.tme.eu

Symbol	Wire cross-section [mm ²]	Ø1 [mm]	Ø2 [mm]	Length [mm]	Current rating [A]
KT-010-100-0707-D	10	7	7	100	75
KT-016-200-0909-D	16	9	9	200	120
KT-025-300-0909-D	25	9	9	300	135
KT-035-400-1111-D	35	11	11	400	195
KT-050-500-1111-D	50	11	11	500	250
KT-070-200-1313-D	70	13	13	200	290
KT-095-300-1717-D	95	17	17	300	330
KT-120-400-1717-D	120	17	17	400	420
ST-010-100-0707-D	10	7	7	100	75
ST-016-200-0909-D	16	9	9	200	120
ST-025-300-0909-D	25	9	9	300	135
ST-035-400-1111-D	35	11	11	400	195

Symbol	Wire cross-section [mm ²]	Ø1 [mm]	Ø2 [mm]	Length [mm]	Current rating [A]
ST-050-500-1111-D	50	11	11	500	250
ST-070-200-1313-D	70	13	13	200	290
ST-095-300-1717-D	95	17	17	300	330
ST-120-400-1717-D	120	17	17	400	420

Braids; super flexible, stranded; CONNECT



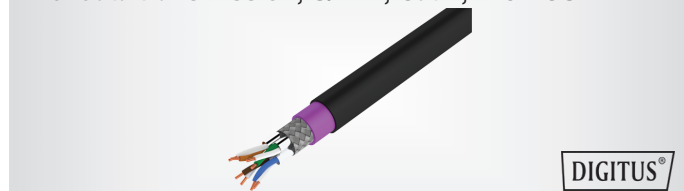
Manufacturer : CONNECT

Shape : round

Information : more products from this series available on www.tme.eu

Symbol	Core section [mm ²]	Core diameter [mm]
KBO-0060-20	6	4
KBO-0100-20	10	4.5
KBO-0160-20	16	5.8
KBO-0250-20	25	7.5
KBO-0350-20	35	9
KBO-0500-20	50	11
KBO-0700-20	70	13
KBO-0950-20	95	15
SBO-0060-20	6	4
SBO-0100-20	10	4.5
SBO-0160-20	16	5.8
SBO-0250-20	25	7.5
SBO-0350-20	35	9
SBO-0500-20	50	11
SBO-0700-20	70	13
SBO-0950-20	95	15

Wire: data transmission; S/FTP; Cat 7; DIGITUS



Manufacturer : DIGITUS

Shield structure : shielded twofold, tinned copper braid, pairs shielded with Al-PET foil

Kind of core : Cu

Core : wire

Operating temperature : -20...60°C

Wire insulation material : PE

Insulation colour : black

Number of cores : 8

No. of pairs : 4

Core diameter : 23AWG

Cable structure AWG : 4x2x23AWG

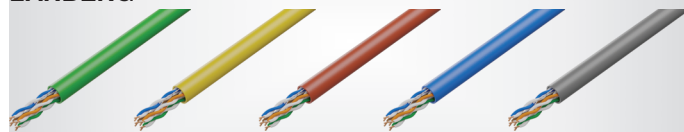
Kind of material : halogen free

Features : low smoke density;
twisted pair conductors

Symbol : Cable ext. dia. CPR standard
[mm]

DK-1741-VH-1-OD	8.5	E _{ca}
DK-1741-VH-5-OD	8.5	E _{ca}
DK-1741-VH-10-OD	8.5	E _{ca}
DK-1741-V-1-OD	7.3	F _{ca}
DK-1741-V-5-OD	7.3	F _{ca}

Wire: data transmission; U/UTP; 100Mbps; LANBERG



Manufacturer : LANBERG

Shield structure : unshielded

Kind of core : CCA

cont. on the next page

Wire: data transmission; U/UTP; 100Mbps; LANBERG (cont.)

Core : wire
 Operating temperature : -20...70°C
 Wire insulation material : PVC
 Core diameter : 24AWG
 Application : LAN
 CPR standard : F_{ca}
 Data transfer rate : 100Mbps

Symbol	Cable ext. dia. [mm]	Insulation colour
LCU5-10CC-0305.S	5.2	grey
LCU5-10CC-0305.BK	5.2	black
LCU5-10CC-0305.B	5.2	blue
LCU5-10CC-0305.R	5.2	red
LCU5-10CC-0305.Y	5.2	yellow
LCU5-10CC-0305.G	5.2	green
LCU5-10CC-0305.O	5.2	orange
LCU5-10CC-0100-S	5.1	grey
LCU5-15CC-0305-S	5	grey

Wire: data transmission; ETHERLINE® Cat.5e, SF/UTP; LAPP

Manufacturer : LAPP
 Shield structure : shielded twofold, Al foil, tinned copper braid
 Kind of core : Cu
 Core : wire
 Operating temperature : -30...80°C
 Insulation colour : turquoise
 Core diameter : 24AWG
 Features : twisted pair conductors
 Kind of material : halogen free
 Resistance to : to weather conditions, mechanical stresses, moisture
 Application : industrial applications, automatics, EtherCAT, industrial Ethernet, EtherNet/IP

Symbol	Cable ext. dia. [mm]	Number of cores	No. of pairs	Wire insul. mat.
ETH-2170280	6.1	4	2	LSZH
ETH-2170281	5.8	4	2	PUR
ETH-2170296	6.3	8	4	LSZH
ETH-2170297	6.3	8	4	PUR
ETH-2170298	6.3	8	4	LSZH

Wire: control cable; ÖLFLEX® HEAT 180 SiF A; LAPP

Manufacturer : LAPP
 Shield structure : unshielded
 Rated volt. : 600V/1kV
 Kind of core : Cu, tinned
 Core : stranded
 Wire insulation material : silicone
 Operating temperature : -50...180°C
 Flexibility class : 5
 CPR standard : E_{ca}
 Conform to the norm : UL 3644
 Kind of material : halogen free, no flame propagation
 Resistance to : chemical, UV rays, flame, temperature, most of alcohols, most of oils

Information : more products from this series available on www.tme.eu

Symbol	Cable ext. dia. [mm]	Core section [mm ²]	Insulation colour
HEAT180SIF-A0.25BK	2.25	0.25	black
HEAT180SIF-A0.25BL	2.25	0.25	blue
HEAT180SIF-A0.25BR	2.25	0.25	brown
HEAT180SIF-A0.25GR	2.25	0.25	green
HEAT180SIF-A0.25GY	2.25	0.25	grey
HEAT180SIF-A0.25WH	2.25	0.25	white
HEAT180SIF-A0.25YL	2.25	0.25	yellow
HEAT180SIF-A0.5BK	2.45	0.5	black
HEAT180SIF-A0.5BL	2.45	0.5	blue
HEAT180SIF-A0.5BR	2.45	0.5	brown
HEAT180SIF-A0.5GR	2.45	0.5	green
HEAT180SIF-A0.5GY	2.45	0.5	grey
HEAT180SIF-A0.5RD	2.45	0.5	red
HEAT180SIF-A0.5WH	2.45	0.5	white
HEAT180SIF-A0.5YL	2.45	0.5	yellow

Symbol	Cable ext. dia. [mm]	Core section [mm ²]	Insulation colour
HEAT180SIF-A0.75BK	2.75	0.75	black
HEAT180SIF-A0.75BL	2.75	0.75	blue
HEAT180SIF-A0.75BR	2.75	0.75	brown
HEAT180SIF-A0.75GR	2.75	0.75	green
HEAT180SIF-A0.75GY	2.75	0.75	grey
HEAT180SIF-A0.75RD	2.75	0.75	red
HEAT180SIF-A0.75WH	2.75	0.75	white
HEAT180SIF-A0.75YL	2.75	0.75	yellow
HEAT180SIF-A1.0BK	2.85	1	black
HEAT180SIF-A1.0BL	2.85	1	blue
HEAT180SIF-A1.0BR	2.85	1	brown
HEAT180SIF-A1.0GR	2.85	1	green
HEAT180SIF-A1.0GY	2.85	1	grey
HEAT180SIF-A1.0RD	2.85	1	red
HEAT180SIF-A1.0WH	2.85	1	white
HEAT180SIF-A1.0YL	2.85	1	yellow
HEAT180SIF-A1.5BK	3.15	1.5	black
HEAT180SIF-A1.5BL	3.15	1.5	blue
HEAT180SIF-A1.5BR	3.15	1.5	brown
HEAT180SIF-A1.5GR	3.15	1.5	green
HEAT180SIF-A1.5GY	3.15	1.5	grey
HEAT180SIF-A1.5RD	3.15	1.5	red
HEAT180SIF-A1.5WH	3.15	1.5	white
HEAT180SIF-A1.5YL	3.15	1.5	yellow
HEAT180SIF-A2.5BK	3.55	2.5	black
HEAT180SIF-A2.5BL	3.55	2.5	blue
HEAT180SIF-A2.5BR	3.55	2.5	brown
HEAT180SIF-A2.5GR	3.55	2.5	green
HEAT180SIF-A2.5GY	3.55	2.5	grey
HEAT180SIF-A2.5WH	3.55	2.5	white
HEAT180SIF-A2.5YL	3.55	2.5	yellow
HEAT180SIF-A4.0BK	4.15	4	black
HEAT180SIF-A4.0BL	4.15	4	blue
HEAT180SIF-A4.0BR	4.15	4	brown
HEAT180SIF-A4.0GY	4.15	4	grey
HEAT180SIF-A4.0RD	4.15	4	red
HEAT180SIF-A4.0WH	4.15	4	white
HEAT180SIF-A6.0BK	5.5	6	black
HEAT180SIF-A6.0BL	5.5	6	blue
HEAT180SIF-A6.0BR	5.5	6	brown
HEAT180SIF-A6.0GY	5.5	6	grey
HEAT180SIF-A10.0BK	7.65	10	black
HEAT180SIF-A10.0BL	7.65	10	blue
HEAT180SIF-A10.0BR	7.65	10	brown
HEAT180SIF-A10.0RD	7.65	10	red
HEAT180SIF-A16.0BK	8.45	16	black
HEAT180SIF-A16.0BL	8.45	16	blue
HEAT180SIF-A16.0RD	8.45	16	red

Wire: control cable; ÖLFLEX® SMART 108; LAPP

Manufacturer : LAPP
 Shield structure : unshielded
 Rated volt. : 300V/500V
 Kind of core : Cu
 Core : stranded
 Wire insulation material : PVC
 Insulation colour : grey
 Operating temperature : -40...80°C
 CPR standard : E_{ca}

Symbol	Number of cores	Core section [mm ²]
SMART108-2X0.5	2	0.5
SMART108-3G0.5	3	0.5
SMART108-3X0.5	3	0.5
SMART108-4G0.5	4	0.5
SMART108-4X0.5	4	0.5
SMART108-5G0.5	5	0.5
SMART108-7G0.5	7	0.5
SMART108-2X0.75	2	0.75
SMART108-3G0.75	3	0.75
SMART108-3X0.75	3	0.75
SMART108-4G0.75	4	0.75
SMART108-4X0.75	4	0.75
SMART108-5G0.75	5	0.75

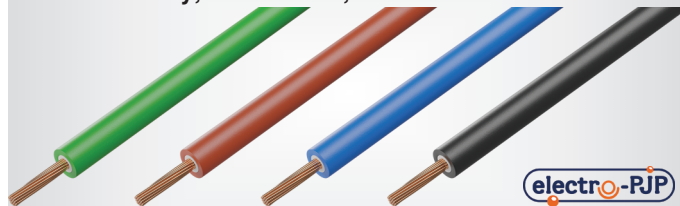
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Cables

Wire: control cable; ÖLFLEX® SMART 108; LAPP (cont.)

Symbol	Number of cores	Core section [mm ²]
SMART108-7G0.75	7	0.75
SMART108-2X1	2	1
SMART108-3G1	3	1
SMART108-4G1	4	1
SMART108-5G1	5	1
SMART108-7G1	7	1
SMART108-2X1.5	2	1.5
SMART108-3G1.5	3	1.5
SMART108-4G1.5	4	1.5
SMART108-5G1.5	5	1.5
SMART108-7G1.5	7	1.5
SMART108-2X2.5	2	2.5
SMART108-3G2.5	3	2.5
SMART108-4G2.5	4	2.5
SMART108-5G2.5	5	2.5
SMART108-7G2.5	7	2.5

Wire: assembly; unshielded; ELECTRO-PJP



Manufacturer : ELECTRO-PJP
 Shield structure : unshielded
 Rated volt. : 1000V
 Core : stranded
 Kind of core : Cu
 Wire insulation material : PVC
 Operating temperature : -20...80°C

Symbol	Core section [mm ²]	Cable ext. dia. [mm]	Insulation colour
PJP-9002-BK	0.4	2	black
PJP-9002-BL	0.4	2	blue
PJP-9002-GR	0.4	2	green
PJP-9002-RD	0.4	2	red
PJP-9002-WH	0.4	2	white
PJP-9002-YL	0.4	2	yellow
PJP-9007-BK	0.5	2.8	black
PJP-9007-BL	0.5	2.8	blue
PJP-9007-GR	0.5	2.8	green
PJP-9007-GY	0.5	2.8	yellow-green
PJP-9007-RD	0.5	2.8	red
PJP-9007-WH	0.5	2.8	white
PJP-9007-YL	0.5	2.8	yellow
PJP-9010-BK	0.75	3.7	black
PJP-9010-BL	0.75	3.7	blue
PJP-9010-BR	0.75	3.7	brown
PJP-9010-GR	0.75	3.7	green
PJP-9010-GY	0.75	3.7	yellow-green
PJP-9010-RD	0.75	3.7	red
PJP-9010-WH	0.75	3.7	white
PJP-9010-YL	0.75	3.7	yellow
PJP-9012-BK	1	3.8	black
PJP-9012-BL	1	3.8	blue
PJP-9012-BR	1	3.8	brown
PJP-9012-GR	1	3.8	green
PJP-9012-GY	1	3.8	yellow-green
PJP-9012-RD	1	3.8	red
PJP-9012-WH	1	3.8	white
PJP-9012-YL	1	3.8	yellow
PJP-9015-BK	1.5	3.8	black
PJP-9015-BL	1.5	3.8	blue
PJP-9015-GR	1.5	3.8	green
PJP-9015-GY	1.5	3.8	yellow-green
PJP-9015-RD	1.5	3.8	red
PJP-9015-WH	1.5	3.8	white
PJP-9015-YL	1.5	3.8	yellow
PJP-9017-BK	2.5	3.8	black
PJP-9017-BL	2.5	3.8	blue
PJP-9017-BR	2.5	3.8	brown
PJP-9017-GR	2.5	3.8	green
PJP-9017-GY	2.5	3.8	yellow-green
PJP-9017-RD	2.5	3.8	red
PJP-9017-WH	2.5	3.8	white
PJP-9017-YL	2.5	3.8	yellow

Wire: data transmission; RS485; BELDEN



Manufacturer : BELDEN
 Shield structure : shielded twofold, Al-PET foil, tinned copper braid
 Kind of core : Cu, tinned
 Core : stranded
 Core marking : colours with colour repetition
 Core diameter : 22AWG
 Ground : tinned copper strand 22AWG

Symbol	Wire insul. mat.	Operating temp. [°C]	Conform to the norm
3105A.00152	PVC	-20...60	UL 1277, UL 1685
3105A.00305	PVC	-20...60	UL 1277, UL 1685
3106A.00152	PVC	-20...60	UL 1277, UL 1685
3106A.00305	PVC	-20...60	UL 1277, UL 1685
3107A.00305	PVC	-20...60	UL 1277, UL 1685
3107ELV.00500	LSZH	-45...80	-
3107ELW.00305	LSZH	-45...80	-
3107ENH.00305	LSZH	-45...80	-
3108A.0101000	PVC	-20...60	UL 1277, UL 1685
3109A.0101000	PVC	-20...60	UL 1277, UL 1685
3105DB.0101000	CPE	-20...60	UL 1277, UL 1685
3106DB.0101000	CPE	-20...60	UL 1277, UL 1685
3106ENH.00305	LSZH	-15...80	-
3107DB.0101000	CPE	-20...60	UL 1277, UL 1685
3108DB.0101000	CPE	-20...60	UL 1277, UL 1685
3109DB.0101000	CPE	-20...60	UL 1277, UL 1685
3107ELW.00500	LSZH	-45...80	-
3107ENH.01500	LSZH	-45...80	-

Wire: data transmission; BELDEN



Manufacturer : BELDEN
 Shield structure : unshielded
 Kind of core : Cu, tinned
 Core : stranded

Symbol	Core diam. [AWG]	CPR standard	Wire insul. mat.	Rated volt. [V]
8471.00305	16	E _{ca}	PVC	300
8471.01152	16	E _{ca}	PVC	300
8471NH.00152	16	D _{ca}	LSZH	-
8471NH.00305	16	D _{ca}	LSZH	-
8471NH.03305	16	D _{ca}	LSZH	-
8471ELV.00305	16	B2 _{ca}	LSZH	300
8471ELW.00305	16	C _{ca}	LSZH	300
8471NH.00500	16	D _{ca}	LSZH	-
8477.0601000	12	E _{ca}	PVC	600

Wire: data transmission; shielded; BELDEN



Manufacturer : BELDEN
 Shield structure : shielded, Al-PET foil
 Rated volt. : 300V
 Kind of core : Cu, tinned
 Core : stranded
 Core diameter : 24AWG

Information : more products from this series available on www.tme.eu

Symbol	Number of cores	Wire insul. mat.	CPR standard
9501.01305	2	PVC	E _{ca}
9501.060100	2	PVC	E _{ca}
9501.060500	2	PVC	E _{ca}
9501NH.00152	2	LSZH	D _{ca}
9501NH.00305	2	LSZH	D _{ca}
9502.0030	4	PVC	E _{ca}
9502.00U305	4	PVC	E _{ca}
9502.060500	4	PVC	E _{ca}
9502NH.00152	4	LSZH	D _{ca}
9502NH.00305	4	LSZH	D _{ca}
9503.01305	6	PVC	E _{ca}
9503.060100	6	PVC	E _{ca}
9503.060500	6	PVC	E _{ca}
9503NH.00305	6	LSZH	D _{ca}
9504.01305	8	PVC	E _{ca}
9504.060100	8	PVC	E _{ca}
9504.060500	8	PVC	E _{ca}

cont. on the next page

Wire: data transmission; shielded; BELDEN (cont.)

Symbol	Number of cores	Wire insul. mat.	CPR standard
9504NH.00305	8	LSZH	D _{ca}
9504NH.00500	8	LSZH	D _{ca}
9505.00305	10	PVC	E _{ca}
9505.00U152	10	PVC	E _{ca}
9505.060100	10	PVC	E _{ca}
9505.0601000	10	PVC	E _{ca}
9505NH.00305	10	PE	D _{ca}
9506.00305	12	PVC	E _{ca}
9506.01152	12	PVC	E _{ca}
9506.060100	12	PVC	E _{ca}
9506.0601000	12	PVC	E _{ca}
9507.00305	14	PVC	E _{ca}
9507.01152	14	PVC	E _{ca}
9507.060100	14	PVC	E _{ca}
9507.060500	14	PVC	E _{ca}
9508.0030	16	PVC	E _{ca}
9508.00305	16	PVC	E _{ca}
9508.01152	16	PVC	E _{ca}
9509.00305	18	PVC	E _{ca}
9509.01152	18	PVC	E _{ca}
9510.00152	20	PVC	E _{ca}
9510.00305	20	PVC	E _{ca}
9515.060500	30	PVC	E _{ca}
9519.060100	38	PVC	E _{ca}
9519.0601000	38	PVC	E _{ca}
9519.060500	38	PVC	E _{ca}
9550.060100	100	PVC	E _{ca}

Wire: data transmission; SF/UTP; Cat 5e; PROFINET; BELDEN



Manufacturer : BELDEN
 Shield structure : shielded twofold, Al foil, tinned copper braid
 Operating temperature : -40...80°C
 Insulation colour : green
 Core diameter : 22AWG
 Application : industrial Ethernet, PROFINET

Kind of core : Cu

Symbol	Kind of core	Core	Wire insul. mat.	Conform to the norm
70006E.01305	wire	wire	PVC	UL 2464
70006E.01500	wire	wire	PVC	UL 2464
70006E.01B100	wire	wire	PVC	UL 2464
70006NH.01305	wire	wire	LSZH	-
70006PU.01305	wire	wire	PUR	UL 20549
70007E.01305	tinned	stranded	PVC	UL 2464
70007E.01500	tinned	stranded	PVC	UL 2464
70007E.01B100	tinned	stranded	PVC	UL 2464
70007NH.01305	tinned	stranded	LSZH	UL 21286
70007NH.01B100	tinned	stranded	LSZH	UL 21286
70008PU.01305	tinned	stranded	PUR	UL 20549
70008PU.01B100	tinned	stranded	PUR	UL 20549
70007NH.01500	tinned	stranded	LSZH	UL 21286

Wire: data transmission; CAN bus; HELUKABEL



Manufacturer : HELUKABEL
 Shield structure : shielded, tinned copper braid
 Kind of core : Cu
 Core : stranded
 Core marking : colours without colour repetition

Information : more products from this series available on www.tme.eu

Symbol	Operating temp. [°C]	Core section [mm ²]	Wire insul. mat.	Conform to the norm
CANBUS-1X2X0.22-IN	-40...70	0.22	PVC	UL 2571
CANBUS-4X1X0.22-IN	-40...70	0.22	PVC	UL 2571
CANBUS-1X2X0.34-IN	-25...70	0.34	PVC	-
CANBUS-4X1X0.34-IN	-25...70	0.34	PVC	-
CANBUS-1X2X0.50-IN	-40...70	0.5	PVC	UL 2571
CANBUS-4X1X0.50-IN	-40...70	0.5	PVC	UL 2571
CANBUS-2X2X0.50-IN	-40...70	0.5	PVC	-
CANBUS-1X2X0.25-DC	-20...70	0.22	PUR	-
CANBUS-4X1X0.25-DC	-20...70	0.22	PUR	-
CANBUS-2X2X0.22-IN	-25...70	0.22	PVC	-

Symbol	Operating temp. [°C]	Core section [mm ²]	Wire insul. mat.	Conform to the norm
CANBUS-2X2X0.25IND	-40...105	0.25	PUR	-
CANBUS-1X2X0.34PUR	-30...70	0.34	PUR	-
CANBUS-4X1X0.34PUR	-30...70	0.34	PUR	-
CANBUS-2X2X0.34-IN	-40...70	0.34	PVC	-
CANBUS-1X2X0.75-IN	-40...70	0.75	PVC	-
CANBUS-4X1X0.75-IN	-40...70	0.75	PVC	-
CANBUS-ERD-1X2X0.5	-40...70	0.5	PE	-
CANBUS-ERD-4X1X0.5	-40...70	0.5	PE	-

Wire: data transmission; RS232, RS485; BELDEN



Manufacturer : BELDEN
 Rated volt. : 30V
 Wire insulation material : PVC
 Insulation colour : chrome
 Operating temperature : -30...80°C
 Kind of core : Cu, tinned
 Core diameter : 28AWG
 Core marking : colours with colour repetition
 Wave imp. : 120Ω
 Conform to the norm : UL 1685, UL 2919

Application : RS232, RS485

CPR standard : E_{ca}

Symbol	Number of cores	No. of pairs	Cable ext. dia. [mm]
8132.060100	4	2	5.59
8132.0601000	4	2	5.59
8132.060500	4	2	5.59
8132FO.0601000	4	2	5.59
8133.060100	6	3	6.73
8133.0601000	6	3	6.73
8133.060500	6	3	6.73
8134.0601000	8	4	7.26
8134.060500	8	4	7.26
8135.060100	10	5	7.32
8138.060100	16	8	8.38
8138.0601000	16	8	8.38
8138.060500	16	8	8.38
8142.0601000	24	12	9.88
8142.060500	24	12	9.88
8148.060500	36	18	11.86
8155.0601000	56	28	14.35

Wire: data transmission; chainflex® CFBUS; IGUS



Manufacturer : IGUS
 Rated volt. : 50V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -35...70°C
 Wire insulation material : elastomer thermoplastic TPE

Symbol	Number of cores	Core section [mm ²]	Core diameter [AWG]
CFBUS.001	2	0.25	-
CFBUS.002	6	0.25; 1.5	-
CFBUS.003	5	0.25; 0.75	-
CFBUS.010	6	0.25	-
CFBUS.011	9	0.25; 1	-
CFBUS.020	4	0.25	-
CFBUS.021	2	0.5	-
CFBUS.022	4	0.5	-
CFBUS.030	4	-	22, 24
CFBUS.031	4	-	15, 18
CFBUS.035	3	-	20
CFBUS.040	4	0.25	-
CFBUS.045	8	0.15	-
CFBUS.049	8	0.15	-
CFBUS.050	8	0.15	-
CFBUS.052	8	0.15	-
CFBUS.055	6	0.15; 0.34	-
CFBUS.060	4	0.38	-
CFBUS.065	4	-	20, 28
CFBUS.066	4	-	20, 24
CFBUS.070	13	-	28

Cables

Wire: data transmission; chainflex® CFBUS.PUR; IGUS



Manufacturer : IGUS
 Rated volt. : 50V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -20...70°C
 Wire insulation material : PUR
 Core marking : coloured
 Kind of material : halogen free, no flame propagation
 Resistance to : coolant, UV rays, mechanical stresses, moisture, most of oils

Information : more products from this series available on www.tme.eu

Symbol	Conform to the norm	Number of cores	Core section [mm ²]
CFBUS.PUR.001	UL 1598, UL 20236	2	0.25
CFBUS.PUR.020	UL 1598, UL 20236	4	0.25
CFBUS.PUR.021	UL 1598, UL 20236	2	0.5
CFBUS.PUR.022	UL 1598, UL 20236	4	0.5
CFBUS.PUR.035	UL 1598, UL 20236	3	0.5
CFBUS.PUR.040	UL 1598, UL 20236	4	0.25
CFBUS.PUR.042	UL 444	2	0.15
CFBUS.PUR.045	UL 1598, UL 20236	8	0.15
CFBUS.PUR.049	UL 1598, UL 20236	8	0.15
CFBUS.PUR.050	UL 1598, UL 20236	8	0.2
CFBUS.PUR.052	UL 1598, UL 20236	8	0.15
CFBUS.PUR.056	UL 1598, UL 20236	6	0.15; 0.38
CFBUS.PUR.060	UL 1598, UL 20236	4	0.38
CFBUS.PUR.068	UL 1598, UL 20236	8	-
CFBUS.PUR.H01.049	UL 444	12	0.15; 1.5
CFBUS.PUR.H01.060	UL 444	8	0.38; 1.5

Wire: data transmission; chainflex® CFBUS.PVC; IGUS



Manufacturer : IGUS
 Rated volt. : 50V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -5...70°C
 Wire insulation material : PVC
 Core marking : coloured
 Kind of material : no flame propagation
 Resistance to : UV rays, most of oils
 Conform to the norm : UL 1598, UL 2571

Information : more products from this series available on www.tme.eu

Symbol	Insulation colour	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
CFBUS.PVC.001	violet	8.5	2	0.25
CFBUS.PVC.021	violet	8.5	2	0.5
CFBUS.PVC.022	violet	8.5	4	0.5
CFBUS.PVC.035	violet	8	3	0.5
CFBUS.PVC.040	violet	6.5	4	0.25
CFBUS.PVC.045	violet	7.5	8	0.15
CFBUS.PVC.049	violet	7.5	8	0.15
CFBUS.PVC.050	violet	9.5	8	0.2
CFBUS.PVC.052	violet	9.5	8	0.15
CFBUS.PVC.056	violet	9	6	0.15; 0.38
CFBUS.PVC.060	green	7	4	0.38

Wire: data transmission; PROFINET; Cat 5; HARTING



Manufacturer : HARTING
 Kind of core : Cu, tinned
 Core : stranded
 Wire insulation material : PUR
 Insulation colour : green
 Kind of material : no flame propagation
 Application : industrial Ethernet, PROFINET

Symbol	Number of cores	Cable ext. dia. [mm]	Core diam. [AWG]	Operating temp. [°C]
09456000109	4	6.5	22	-40...70
09456000119	4	6.5	22	-40...70
09456000139	4	6.5	22	-40...70

Symbol	Number of cores	Cable ext. dia. [mm]	Core diam. [AWG]	Operating temp. [°C]
09456001110	4	6.5	22	-40...80
09456001120	4	6.5	22	-40...80
09456001130	4	6.5	22	-40...80

Wire: data transmission; UNITRONIC® LiYY; LAPP



Manufacturer : LAPP
 Shield structure : unshielded
 Kind of core : Cu
 Core : stranded
 Operating temperature : -5...70°C
 Flexibility class : 5
 Wire insulation material : PVC
 Insulation colour : grey
 Core marking : colours without colour repetition
 CPR standard : E_{ca}
 Kind of material : no flame propagation
 Resistance to : moisture
 Application : industrial applications, automatics, industrial electronics

Information : more products from this series available on www.tme.eu

Symbol	Rated volt. [V]	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
LIYY-2X0.14	350	3.2	2	0.14
LIYY-2X0.25	500	3.8	2	0.25
LIYY-2X0.34	500	4.2	2	0.34
LIYY-2X0.5	500	4.7	2	0.5
LIYY-2X0.75	500	5.1	2	0.75
LIYY-2X1	500	5.6	2	1
LIYY-2X1.5	500	6.2	2	1.5
LIYY-3X0.14	350	3.4	3	0.14
LIYY-3X0.25	500	4	3	0.25
LIYY-3X0.34	500	4.4	3	0.34
LIYY-3X0.5	500	5	3	0.5
LIYY-3X0.75	500	5.6	3	0.75
LIYY-3X1	500	5.9	3	1
LIYY-3X1.5	500	6.8	3	1.5
LIYY-4X0.14	350	3.6	4	0.14
LIYY-4X0.25	500	4.3	4	0.25
LIYY-4X0.75	500	6.1	4	0.75
LIYY-4X1	500	6.4	4	1
LIYY-5X0.25	500	4.7	5	0.25
LIYY-5X1	500	7.3	5	1
LIYY-7X0.14	350	4.2	7	0.14
LIYY-7X0.34	500	5.9	7	0.34
LIYY-7X0.75	500	7.5	7	0.75
LIYY-8X0.25	500	6.2	8	0.25
LIYY-10X0.14	350	5.2	10	0.14
LIYY-10X0.34	500	7.6	10	0.34
LIYY-10X0.75	500	9.4	10	0.75
LIYY-12X0.34	500	7.8	12	0.34
LIYY-14X0.14	350	5.8	14	0.14
LIYY-16X0.14	350	6.1	16	0.14
LIYY-16X0.5	500	10.2	16	0.5
LIYY-20X0.25	500	8.6	20	0.25
LIYY-20X0.34	500	9.6	20	0.34
LIYY-21X0.34	500	10.4	21	0.34
LIYY-25X0.34	500	11.2	25	0.34
LIYY-25X0.5	500	12.7	25	0.5
LIYY-25X0.75	500	14	25	0.75
LIYY-30X0.25	500	10.3	30	0.25
LIYY-32X0.25	500	10.7	32	0.25
LIYY-36X0.25	500	11.1	36	0.25
LIYY-37X0.25	500	11.4	37	0.25
LIYY-40X0.25	500	12	40	0.25
LIYY-40X0.34	500	13.5	40	0.34
LIYY-50X0.25	500	12.9	50	0.25

Wire: data transmission; UNITRONIC® BUS LD; LAPP



Manufacturer : LAPP
 Shield structure : shielded, braid made of copper wires
 Rated volt. : 250V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -40...80°C
 Wire insulation material : PVC
 Insulation colour : violet
 Core section : 0.22mm²

cont. on the next page

Wire: data transmission; UNITRONIC® BUS LD; LAPP (cont.)

CPR standard : no classification
 Features : twisted pair conductors
 Kind of material : flame retardant
 Resistance to : moisture
 Application : industrial applications, CAN bus, Modbus, Modulink, RS422, RS485, SUCOnet, VariNet

Information : more products from this series available on www.tme.eu

Symbol	Cable ext. dia. [mm]	Number of cores	No. of pairs
BUS-LD-1X2X0.22	5.7	2	1
BUS-LD-2X2X0.22	7.1	4	2
BUS-LD-3X2X0.22	7.2	6	3

Insulation colour : grey
 Core marking : colours with colour repetition
 No. of pairs : 2
 Features : twisted pair conductors
 CPR standard : E_{ca}
 Kind of material : flame retardant
 Application : RS422, RS485, data transmission, indoor

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
LI-2YCY2X2X0.22	6.4	4	0.22
LI-2YCY2X2X0.34	7.6	4	0.34
LI-2YCY2X2X0.50	8.4	4	0.5
LI-2YCY3X2X0.22	6.7	6	0.22
LI-2YCY3X2X0.34	8	6	0.34
LI-2YCY3X2X0.50	8.8	6	0.5
LI-2YCY4X2X0.22	7.3	8	0.22
LI-2YCY4X2X0.34	8.6	8	0.34
LI-2YCY4X2X0.50	9.6	8	0.5
LI-2YCY8X2X0.50	12.3	16	0.5
LI-2YCY10X2X0.34	12.5	20	0.34

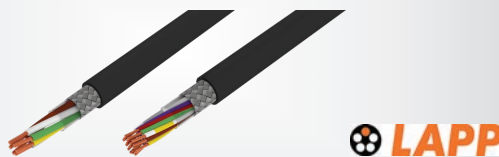
Wire: data transmission; PROFINET; LAPP



Manufacturer : LAPP
 Shield structure : shielded twofold, Al foil, braid made of copper wires
 Kind of core : Cu
 Core : wire
 Operating temperature : -40...70°C
 Wire insulation material : PVC
 Insulation colour : green
 Number of cores : 4
 No. of pairs : 2
 Core diameter : 22AWG
 Features : self-supporting; twisted pair conductors
 Kind of material : flame retardant
 Resistance to : flame
 Application : industrial applications, automatics, industrial Ethernet, PRO-FINET

Symbol	Kind of wire	Ethernet category	Cable ext. dia. [mm]
ETH-2170891	ETHERLINE® Cat.5e	Cat 5e	6.5
ETH-2170893	ETHERLINE® Cat.5	Cat 5	6.8

Wire: data transmission; UNITRONIC® Li2YCYv (TP); LAPP



Manufacturer : LAPP
 Shield structure : shielded, tinned copper braid
 Rated volt. : 50V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -5...70°C
 Wire insulation material : PVC
 Insulation colour : black
 Core marking : colours without colour repetition
 Features : twisted pair conductors
 Kind of material : flame retardant
 Application : industrial applications, RS422, RS485, control for machines, data transmission, indoor, outdoor

Information : more products from this series available on www.tme.eu

Symbol	Number of cores	Core section [mm ²]
LI-2YCYV-1X2X0.5	2	0.5
LI-2YCYV-2X2X0.22	4	0.22
LI-2YCYV-2X2X0.34	4	0.34
LI-2YCYV-3X2X0.34	6	0.34
LI-2YCYV-3X2X0.5	6	0.5
LI-2YCYV-4X2X0.5	8	0.5

Wire: data transmission; chainflex® CF898; IGUS

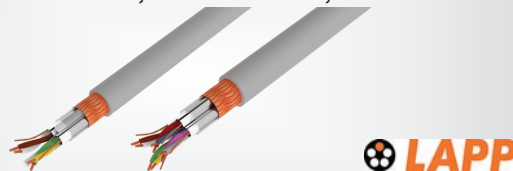


Manufacturer : IGUS
 Rated volt. : 500V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -20...80°C
 Wire insulation material : PUR
 Core marking : coloured
 Kind of material : no flame propagation
 Resistance to : temperature, most of oils

Information : more products from this series available on www.tme.eu

Symbol	Number of cores	Core section [mm ²]	Conform to the norm
CF898.001	2	0.25	UL 1589, UL 20236
CF898.021	2	0.5	UL 10578, UL 21161
CF898.045	8	0.14	UL 11602, UL 21161
CF898.060	4	0.34	UL 11602, UL 21161
CF898.061.FC	4	0.34	UL 11602, UL 21161
CF898.082	2	2.5	UL 21866
CF898.083	2	2.5	UL 21866

Wire: data transmission; Li-2Y-CY-PIMF; LAPP



Manufacturer : LAPP
 Shield structure : shielded threefold, Al-PET foil, braid made of copper wires, pairs shielded with Al-PET foil
 Rated volt. : 250V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -5...70°C
 Wire insulation material : PVC
 Insulation colour : grey
 Core marking : colours without colour repetition
 Features : twisted pair conductors
 Kind of material : flame retardant
 Application : industrial applications, RS422, RS485, control for machines, data transmission, indoor

Symbol	Cable ext. dia. [mm]	Number of cores	No. of pairs	Core section [mm ²]
LAPP-0034040	7.7	4	2	0.22
LAPP-0034041	8.1	6	3	0.22
LAPP-0034042	8.7	8	4	0.22
LAPP-0034044	12	20	10	0.22
LAPP-0034045	9	4	2	0.34
LAPP-0034046	9.4	6	3	0.34
LAPP-0034047	9.8	8	4	0.34

Wire: data transmission; PAAR-TRONIC Li-2YCY; HELUKABEL



Manufacturer : HELUKABEL
 Shield structure : shielded, tinned copper braid
 Rated volt. : 250V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -5...70°C
 Wire insulation material : PE

cont. on the next page

Wire: data transmission; Li-2Y-CY-PIMF; LAPP (cont.)

Symbol	Cable ext. dia. [mm]	Number of cores	No. of pairs	Core section [mm ²]
LAPP-0034060	9.9	4	2	0.5
LAPP-0034061	10.4	6	3	0.5
LAPP-0034062	11.3	8	4	0.5
LAPP-0034063	11.8	10	5	0.5
LAPP-0034064	14.5	16	8	0.5
LAPP-0034070	11.7	4	2	1
LAPP-0034071	11.8	6	3	1
LAPP-0034073	19.7	20	10	1

Wire: data transmission; BiTsenser; BITNER



Manufacturer	: BITNER
Shield structure	: shielded twofold, tinned copper braid, pairs shielded with Al-PET foil
Rated volt.	: 300V
Kind of core	: Cu
Core	: stranded
Operating temperature	: -40...80°C
Wire insulation material	: LSZH
Insulation colour	: green
Core section	: 0.22mm ²
Kind of material	: halogen free
Features	: low smoke density; twisted pair conductors
Application	: industrial applications, RS485, data transmission, indoor
CPR standard	: E _{ca}

Symbol	Cable ext. dia. [mm]	Number of cores	No. of pairs
BITNER-LP0178	5.6	2	1
BITNER-LP0185	7.1	4	2

Wire: data transmission; RS232; BELDEN



Manufacturer	: BELDEN
Shield structure	: shielded twofold, Al-PET foil, tinned copper braid
Rated volt.	: 300V
Kind of core	: Cu, tinned
Core	: stranded
Operating temperature	: -30...80°C
Wire insulation material	: PVC
Insulation colour	: chrome
Core diameter	: 22AWG
Core marking	: colours without colour repetition
Conform to the norm	: UL 1685, UL 2464

Symbol	Cable ext. dia. [mm]	Number of cores
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9939.060500	5.13	3
9940.060100	5.46	4
9940.0601000	5.46	4
9941.060100	5.84	5
9941.0601000	5.84	5
9941.060500	5.84	5
9942.060100	6.22	6
9942.0601000	6.22	6
9942.060500	6.22	6
9943.060500	6.22	7
9944.060500	6.7	8
9945.060100	6.71	8
9945.0601000	6.71	8
9945.060500	7.11	9
9946.0601000	7.62	10
9947.060500	8.63	15
9948.060500	10.41	25
9949.060500	11.68	37
9950.060500	14.09	50

Wire: data transmission; RS485; BELDEN



Manufacturer	: BELDEN
Shield structure	: shielded twofold, Al-PET foil, tinned copper braid
Rated volt.	: 300V
Kind of core	: Cu, tinned
Core	: stranded
Core diameter	: 24AWG
Core marking	: colours with colour repetition
Ground	: tinned copper strand 24AWG

Information : more products from this series available on www.tme.eu

Symbol	Insulation colour	Insulation	Number of cores	No. of pairs
82841.8771000	grey	PVC	2	1
82841.877500	grey	PVC	2	1
82842.8771000	grey	PVC	4	2
82842.877500	grey	PVC	4	2
89841.0021000	red	FEP	2	1
89841.002500	red	FEP	2	1
89842.0021000	red	FEP	4	2
89842.002500	red	FEP	4	2
89842.0081001	grey	FEP	4	2
9841.01152	grey	PVC	2	1
9841.01305	grey	PVC	2	1
9841.060100	grey	PVC	2	1
9841LS.01500	black	LSZH	2	1
9841LV.00500	grey	LSZH	2	1
9841LW.00305	chrome	LSZH	2	1
9841LW.00500	chrome	LSZH	2	1
9841NH.00152	chrome	LSZH	2	1
9841NH.00305	chrome	LSZH	2	1
9841ZH.060500	chrome	LSZH	2	1
9842.00152	chrome	PVC	4	2
9842.00305	chrome	PVC	4	2
9842.060100	chrome	PVC	4	2
9842LS.00152	black	LSZH	4	2
9842LV.00305	chrome	LSZH	4	2
9842LV.00500	chrome	LSZH	4	2
9842LV.01500	black	LSZH	4	2
9842LW.00305	chrome	LSZH	4	2
9842LW.00500	chrome	LSZH	4	2
9842NH.00152	chrome	LSZH	4	2
9842NH.00305	chrome	LSZH	4	2
9842NH.00500	chrome	LSZH	4	2
9842NH.01305	white	LSZH	4	2
9842ZH.060500	chrome	LSZH	4	2
9843.00305	chrome	PVC	6	3
9843.060100	chrome	PVC	6	3
9843.060500	chrome	PVC	6	3
9843NH.00305	chrome	LSZH	6	3
9844.00305	chrome	PVC	8	4
9844.060500	chrome	PVC	8	4
9844NH.00305	chrome	LSZH	8	4
9844NH.00500	chrome	LSZH	8	4

Wire: control cable; JZ-500; HELUKABEL



Manufacturer	: HELUKABEL
Shield structure	: unshielded
Rated volt.	: 300V/500V
Kind of core	: Cu
Core	: stranded
Operating temperature	: -40...80°C
Flexibility class	: 5
Wire insulation material	: PVC
Insulation colour	: grey
Core marking	: black, numbered + ground wire
Earth core	: yellow-green
CPR standard	: E _{ca}
Kind of material	: no flame propagation, flame retardant
Resistance to	: most of oils, most of chemical compounds
Application	: assembly line tools, production line tools, control for machines

Information : more products from this series available on www.tme.eu

Symbol	Number of cores	Core section [mm ²]	Symbol	Number of cores	Core section [mm ²]
JZ500/3X0.5	3	0.5	JZ500/8X0.75	8	0.75
JZ500/3X0.75	3	0.75	JZ500/8X1	8	1
JZ500/3X1	3	1	JZ500/9X1.5	9	1.5
JZ500/3X1.5	3	1.5	JZ500/10X0.75	10	0.75

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Wire: control cable; JZ-500; HELUKABEL (cont.)

Symbol	Number of cores	Core section [mm ²]	Symbol	Number of cores	Core section [mm ²]
JZ500/3X2.5	3	2.5	JZ500/12X0.5	12	0.5
JZ500/4X1.5	4	1.5	JZ500/12X0.75	12	0.75
JZ500/5X0.75	5	0.75	JZ500/14X0.5	14	0.5
JZ500/5X1	5	1	JZ500/18X0.5	18	0.5
JZ500/5X1.5	5	1.5	JZ500/18X1.5	18	1.5
JZ500/5X2.5	5	2.5	JZ500/18X2.5	18	2.5
JZ500/7X0.5	7	0.5	JZ500/21X0.75	21	0.75
JZ500/7X1	7	1	JZ500/25X1	25	1
JZ500/7X1.5	7	1.5	JZ500/32X0.75	32	0.75
JZ500/8X0.5	8	0.5	JZ500/41X0.75	41	0.75

Wire: control cable; ÖLFLEX® FD CLASSIC 810; LAPP

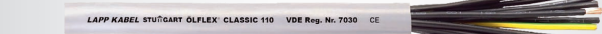


Manufacturer : LAPP
 Shield structure : unshielded
 Rated volt. : 300V/500V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -40...70°C
 Flexibility class : 6
 Wire insulation material : PVC
 Insulation colour : grey
 Kind of material : flame retardant
 Application : power chain

Information : more products from this series available on www.tme.eu

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
CL-FD810-2X1.5	6.8	2	1.5
CL-FD810-3G0.75	6.2	3	0.75
CL-FD810-3G1.5	7.4	3	1.5
CL-FD810-3G2.5	9	3	2.5
CL-FD810-3G4	10.6	3	4
CL-FD810-4G0.5	6.3	4	0.5
CL-FD810-4G0.75	6.8	4	0.75
CL-FD810-4G1.5	8.1	4	1.5
CL-FD810-4G16	21	4	16
CL-FD810-4G4	11.7	4	4
CL-FD810-4G6	13.9	4	6
CL-FD810-5G0.5	6.8	5	0.5
CL-FD810-5G1	8	5	1
CL-FD810-5G10	19.6	5	10
CL-FD810-5G16	23.6	5	16
CL-FD810-5G2.5	11.2	5	2.5
CL-FD810-5G6	15.5	5	6
CL-FD810-7G0.5	8	7	0.5
CL-FD810-7G1	9.6	7	1
CL-FD810-7G1.5	10.9	7	1.5
CL-FD810-7G2.5	13.6	7	2.5
CL-FD810-12G0.5	9.5	12	0.5
CL-FD810-12G1.5	12.9	12	1.5
CL-FD810-16G0.75	12	16	0.75
CL-FD810-18G0.5	11.4	18	0.5
CL-FD810-18G0.75	12.7	18	0.75
CL-FD810-18G1	13.9	18	1
CL-FD810-25G0.5	13.7	25	0.5
CL-FD810-25G1	16.4	25	1
CL-FD810-26G1	16.4	26	1
CL-FD810-34G0.5	15.6	34	0.5
CL-FD810-34G1.5	21.1	34	1.5
CL-FD810-41G1	20.6	41	1
CL-FD810-50G0.5	18.5	50	0.5
CL-FD810-50G1.5	25	50	1.5

Wire: control cable; ÖLFLEX® CLASSIC 110; LAPP



Manufacturer : LAPP
 Shield structure : unshielded
 Rated volt. : 300V/500V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -40...80°C
 Wire insulation material : PVC

Insulation colour : grey
 Kind of material : no flame propagation
 Resistance to : most of chemical compounds
Information : more products from this series available on www.tme.eu

Symbol	Number of cores	Core section [mm ²]
CL110-2X2.5	2	2.5
CL110-2X1.5	2	1.5
CL110-2X1	2	1
CL110-2X0.75	2	0.75
CL110-3X1.5	3	1.5
CL110-3X1	3	1
CL110-3X0.75	3	0.75
CL110-3X0.5	3	0.5
CL110-3G10	3	10
CL110-3G1.5	3	1.5
CL110-3G1	3	1
CL110-3G0.75	3	0.75
CL110-4X0.5	4	0.5
CL110-4G2.5	4	2.5
CL110-4G1.5	4	1.5
CL110-4G0.75	4	0.75
CL110-5X0.5	5	0.5
CL110-5G2.5	5	2.5
CL110-5G0.5	5	0.5
CL110-7X0.5	7	0.5
CL110-7G1	7	1
CL110-7G0.75	7	0.75
CL110-10G1.5	10	1.5
CL110-10G1	10	1
CL110-10G0.75	10	0.75
CL110-10G0.5	10	0.5
CL110-12G1.5	12	1.5
CL110-12G1	12	1
CL110-12G0.75	12	0.75
CL110-12G0.5	12	0.5
CL110-16G1.5	16	1.5
CL110-16G1	16	1
CL110-16G0.75	16	0.75
CL110-18G1.5	18	1.5
CL110-18G0.75	18	0.75
CL110-18G0.5	18	0.5
CL110-34G1.5	34	1.5
CL110-34G1	34	1
CL110-61G1	61	1
CL110-65G1.5	65	1.5
CL110-80G1	80	1

Wire: control cable; ÖLFLEX® CLASSIC 100; LAPP



Manufacturer : LAPP
 Shield structure : unshielded
 Rated volt. : 300V/500V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -40...80°C
 Flexibility class : 5
 Wire insulation material : PVC
 Insulation colour : grey
 Kind of material : no flame propagation
 Resistance to : torsion, most of chemical compounds
Information : more products from this series available on www.tme.eu

Symbol	Number of cores	Core section [mm ²]
CL100-2X0.50	2	0.5
CL100-2X0.75	2	0.75
CL100-2X1.5	2	1.5
CL100-3G0.75	3	0.75
CL100-3G1.5	3	1.5
CL100-3X0.75	3	0.75
CL100-3X1.0	3	1
CL100-4G1.0	4	1
CL100-4X0.75	4	0.75
CL100-4X1.5	4	1.5
CL100-5G0.50	5	0.5
CL100-5G0.75	5	0.75
CL100-5G1.0	5	1
CL100-5X0.75	5	0.75
CL100-5X1.0	5	1
CL100-6G0.50	6	0.5
CL100-7G0.50	7	0.5
CL100-7G1.0	7	1

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Cables

Wire: control cable; ÖLFLEX® CLASSIC 100; LAPP (cont.)

Symbol	Number of cores	Core section [mm ²]
CL100-7G1.5	7	1.5
CL100-8G0.75	8	0.75
CL100-8G1.0	8	1
CL100-8G1.5	8	1.5
CL100-9G0.75	9	0.75
CL100-10G0.50	10	0.5
CL100-10G0.75	10	0.75
CL100-12G0.50	12	0.5
CL100-12G0.75	12	0.75
CL100-12G1.5	12	1.5
CL100-14G0.50	14	0.5
CL100-16G0.50	16	0.5
CL100-18G0.75	18	0.75
CL100-18G1.5	18	1.5
CL100-21G0.50	21	0.5
CL100-24G0.50	24	0.5
CL100-25G1.0	25	1
CL100-25G1.5	25	1.5

Wire: control cable; chainflex® CF130.UL; IGUS



Manufacturer : IGUS
 Shield structure : unshielded
 Kind of core : Cu
 Core : stranded
 Operating temperature : 5...70°C
 Wire insulation material : PVC
 Insulation colour : grey
 Kind of material : no flame propagation
 Features : self-supporting
 Resistance to : torsion
 Application : industrial applications, power chain, control for machines, rapid handling systems, indoor
 Conform to the norm : UL 10493, UL 20200

Information : more products from this series available on www.tme.eu

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
CF130.02.07.UL	6.5	7	0.25
CF130.02.12.UL	8.5	12	0.25
CF130.02.20.UL	10.5	20	0.25
CF130.02.25.UL	11.5	25	0.25
CF130.02.30.UL	12.5	30	0.25
CF130.03.02.UL	5	2	0.34
CF130.03.05.UL	6	5	0.34
CF130.05.02.UL	5.5	2	0.5
CF130.05.03.UL	5.5	3	0.5
CF130.05.04.UL	6	4	0.5
CF130.05.18.UL	12	18	0.5
CF130.07.02.UL	6	2	0.75
CF130.07.03.UL	6	3	0.75
CF130.07.04.UL	6.5	4	0.75
CF130.07.05.UL	7	5	0.75
CF130.07.12.UL	11.5	12	0.75
CF130.07.36.UL	18.5	36	0.75
CF130.07.42.UL	21	42	0.75
CF130.10.04.UL	7	4	1
CF130.10.05.UL	7.5	5	1
CF130.10.07.UL	9	7	1
CF130.10.18.UL	14.5	18	1
CF130.10.25.UL	17	25	1
CF130.15.02.UL	7	2	1.5
CF130.15.03.UL	7	3	1.5
CF130.15.04.UL	8	4	1.5
CF130.15.05.UL	8.5	5	1.5
CF130.15.07.UL	9.5	7	1.5
CF130.15.12.UL	13	12	1.5
CF130.15.18.UL	17.5	18	1.5
CF130.15.25.UL	19.5	25	1.5
CF130.25.03.UL	8.5	3	2.5
CF130.25.04.UL	9.5	4	2.5
CF130.25.07.UL	12	7	2.5
CF130.25.12.UL	17.5	12	2.5
CF130.40.05.UL	12	5	4
CF130.60.05.UL	14.5	5	6

IGUS control cables CF140.UL series



Manufacturer : IGUS
 Shield structure : shielded, tinned copper braid
 Kind of core : Cu
 Core : stranded
 Operating temperature : 5...70°C
 Wire insulation material : PVC
 Insulation colour : grey
 Kind of material : no flame propagation
 Features : self-supporting
 Application : industrial applications, power chain, control for machines, rapid handling systems, indoor
 Conform to the norm : UL 10493, UL 20200

Information : more products from this series available on www.tme.eu

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
CF140.02.12.UL	10.5	12	0.25
CF140.03.05.UL	7.5	5	0.34
CF140.05.03.UL	7	3	0.5
CF140.05.05.UL	8.5	5	0.5
CF140.05.18.UL	14.5	18	0.5
CF140.05.36.UL	19	36	0.5
CF140.07.03.UL	8	3	0.75
CF140.07.04.UL	8.5	4	0.75
CF140.07.05.UL	9	5	0.75
CF140.07.07.UL	10	7	0.75
CF140.07.12.UL	13.5	12	0.75
CF140.07.18.UL	16	18	0.75
CF140.07.25.UL	18	25	0.75
CF140.10.02.UL	8	2	1
CF140.10.03.UL	8.5	3	1
CF140.10.04.UL	9	4	1
CF140.10.05.UL	9.5	5	1
CF140.10.07.UL	11	7	1
CF140.10.12.UL	14.5	12	1
CF140.10.18.UL	17.5	18	1
CF140.10.25.UL	19.5	25	1
CF140.15.03.UL	9	3	1.5
CF140.15.05.UL	10.5	5	1.5
CF140.15.07.UL	12	7	1.5
CF140.15.12.UL	16.5	12	1.5
CF140.15.18.UL	19	18	1.5
CF140.15.25.UL	22.5	25	1.5
CF140.15.36.UL	26.5	36	1.5
CF140.25.03.UL	11	3	2.5
CF140.25.04.UL	11.5	4	2.5

Wire: control cable; JZ-HF; HELUKABEL



Manufacturer : HELUKABEL
 Shield structure : unshielded
 Rated volt. : 300V/500V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -40...80°C
 Wire insulation material : PVC
 Insulation colour : grey
 Kind of material : no flame propagation
 Resistance to : flame, most of oils, most of chemical compounds
 Application : industrial applications, industrial electronics, power chain, robotics

Information : more products from this series available on www.tme.eu

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
JZ-HF3G0.50	5.3	3	0.5
JZ-HF3G0.75	5.7	3	0.75
JZ-HF3G1	6	3	1
JZ-HF3G1.5	6.9	3	1.5
JZ-HF4G1	6.8	4	1
JZ-HF4G6	13.3	4	6
JZ-HF4X2.5	9.6	4	2.5
JZ-HF5G0.75	7	5	0.75
JZ-HF5G10	19.7	5	10
JZ-HF5G6	14.6	5	6
JZ-HF7G0.75	8.4	7	0.75
JZ-HF7G1.5	10.1	7	1.5

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Wire: control cable; JZ-HF; HELUKABEL (cont.)

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
JZ-HF7G2.5	12.2	7	2.5
JZ-HF10G1.5	11.9	10	1.5
JZ-HF12G0.75	10.3	12	0.75
JZ-HF12G1.5	12.3	12	1.5
JZ-HF12G2.5	15.3	12	2.5
JZ-HF16G0.50	10.3	16	0.5
JZ-HF18G0.75	12.2	18	0.75
JZ-HF18G1	13	18	1
JZ-HF25G0.50	13.6	25	0.5
JZ-HF25G1	15.6	25	1
JZ-HF25G1.5	17.5	25	1.5
JZ-HF34G0.75	16.6	34	0.75
JZ-HF61G0.50	19.3	61	0.5

Wire: control cable; MULTIFLEX 512®-PUR; HELUKABEL



Manufacturer	: HELUKABEL
Shield structure	: unshielded
Rated voltage	: 300V/500V
Kind of core	: Cu
Core	: stranded
Operating temperature	: -40...80°C
Wire insulation material	: PUR
Insulation colour	: grey
Resistance to	: to weather conditions, ozone, UV rays, mechanical stresses, most of dissolvents, most of oils, most of lubricants, most of alkalis, most of chemical compounds
Application	: industrial applications, power chain, robotics

Information : more products from this series available on www.tme.eu

Symbol	Number of cores	Core section [mm ²]
MF512-PUR2X0.5	2	0.5
MF512-PUR2X0.75	2	0.75
MF512-PUR2X1	2	1
MF512-PUR2X1.5	2	1.5
MF512-PUR2X2.5	2	2.5
MF512-PUR3G0.5	3	0.5
MF512-PUR3G0.75	3	0.75
MF512-PUR3G1	3	1
MF512-PUR3G1.5	3	1.5
MF512-PUR3G2.5	3	2.5
MF512-PUR4G1.5	4	1.5
MF512-PUR4G4	4	4
MF512-PUR4G16	4	16
MF512-PUR5G0.5	5	0.5
MF512-PUR5G1.5	5	1.5
MF512-PUR5G6	5	6
MF512-PUR5G16	5	16
MF512-PUR7G0.75	7	0.75
MF512-PUR7G1	7	1
MF512-PUR7G2.5	7	2.5
MF512-PUR12G1	12	1
MF512-PUR18G0.5	18	0.5
MF512-PUR18G1.5	18	1.5
MF512-PUR25G0.5	25	0.5
MF512-PUR25G2.5	25	2.5
MF512-PUR30G0.5	30	0.5

Wire: control cable; JZ-500-BK; HELUKABEL

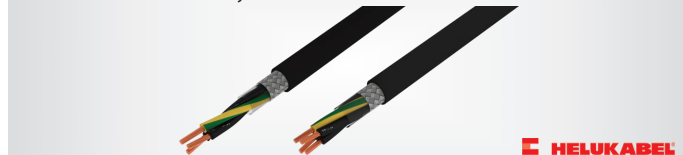


Manufacturer	: HELUKABEL
Shield structure	: unshielded
Rated volt.	: 300V/500V
Kind of core	: Cu
Core	: stranded
Operating temperature	: -15...80°C
Flexibility class	: 5
Wire insulation material	: PVC
Insulation colour	: black
Kind of material	: no flame propagation

CPR standard	: E _{ca}
Resistance to	: UV rays, most of oils, most of chemical compounds
Application	: assembly line tools, production line tools, machine terminals, control for machines

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
JZ500-BK-3G0.50	5.1	3	0.5
JZ500-BK-3G0.75	5.6	3	0.75
JZ500-BK-3G2.50	8.3	3	2.5
JZ500-BK-4G0.50	5.5	4	0.5
JZ500-BK-4G1.00	6.6	4	1
JZ500-BK-4G10	16.4	4	10
JZ500-BK-4G25	25.1	4	25
JZ500-BK-4G6.00	13.2	4	6
JZ500-BK-5G0.50	6.2	5	0.5
JZ500-BK-5G1.50	8.3	5	1.5
JZ500-BK-5G2.50	10.1	5	2.5
JZ500-BK-7G0.75	7.7	7	0.75
JZ500-BK-7G1.00	8.1	7	1
JZ500-BK-7G2.50	11.2	7	2.5
JZ500-BK-12G1.5	12.2	12	1.5
JZ500-BK-18G1.00	12.9	18	1
JZ500-BK-25G1.00	15.4	25	1

Wire: control cable; HELUKABEL



Manufacturer	: HELUKABEL
Rated volt.	: 300V/500V
Kind of core	: Cu
Core	: stranded
Operating temperature	: -10...80°C
Flexibility class	: 5
Wire insulation material	: PVC
Insulation colour	: black
CPR standard	: E _{ca}
Kind of material	: no flame propagation
Resistance to	: UV rays, most of oils, most of chemical compounds
Application	: assembly line tools, production line tools, control for machines

Symbol	Kind of wire	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
OZ500-C-BK-2X0.75	OZ-500-C	6.7	2	0.75
OZ500-C-BK-2X1.50	OZ-500-C	7.8	2	1.5
JZ500-C-BK-3G1.00	JZ-500-C	7.5	3	1
JZ500-C-BK-3G2.50	JZ-500-C	9.8	3	2.5
JZ500-C-BK-4G0.75	JZ-500-C	7.7	4	0.75
JZ500-C-BK-4G1.00	JZ-500-C	8	4	1
JZ500-C-BK-5G0.75	JZ-500-C	8.2	5	0.75
JZ500-C-BK-5G1.00	JZ-500-C	8.8	5	1
JZ500-C-BK-7G0.75	JZ-500-C	9	7	0.75
JZ500-C-BK-7G1.50	JZ-500-C	10.8	7	1.5
JZ500-C-BK-7G2.50	JZ-500-C	12.8	7	2.5
JZ500-C-BK-12G0.75	JZ-500-C	11.6	12	0.75

Wire: control cable; MACHFLEX 375CY; BELDEN



Manufacturer	: BELDEN
Shield structure	: shielded, tinned copper braid
Kind of core	: Cu
Core	: stranded
Operating temperature	: -5...70°C
Flexibility class	: 5
Wire insulation material	: PVC
Insulation colour	: transparent
Core marking	: colours without colour repetition + ground wire
Earth core	: yellow-green
Kind of material	: no flame propagation
Resistance to	: UV rays, most of oils, most of chemical compounds
Application	: industrial applications, industrial tools, assembly line tools, production line tools, control for machines

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
C3GBCY-K100	7.7	3	0.75
C3GBCY-KC50	7.7	3	0.75
C3GCCY-K100	8.2	3	1
C3GCCY-KC50	8.2	3	1

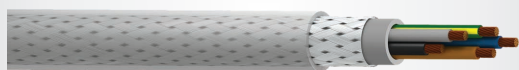
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Cables

Wire: control cable; MACHFLEX 375CY; BELDEN (cont.)

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
C3GDCY-K100	8.8	3	1.5
C3GDCY-KC50	8.8	3	1.5
C3GECY-KC50	12	3	2.5
C4GBCY-K100	8.3	4	0.75
C4GCCY-K100	8.8	4	1
C4GCCY-KC50	8.8	4	1
C4GDCY-K100	9.5	4	1.5
C4GDCY-KC50	9.5	4	1.5
C4GECY-KC50	13.3	4	2.5
C5GBCY-K100	9	5	0.75
C5GBCY-KC50	9	5	0.75
C5GCCY-K100	9.6	5	1
C5GDCY-KC50	10.3	5	1.5
C5GECY-K100	14.5	5	2.5
C7GBCY-KC50	9.7	7	0.75
C7GCCY-KC50	10.3	7	1
C7GDCY-KC50	11.1	7	1.5
C7GECY-K100	15.8	7	2.5
C7GECY-KC50	15.8	7	2.5

Wire: control cable; MACHFLEX 375SY; BELDEN



Manufacturer : BELDEN
 Shield structure : shielded, galvanized steel wire braid
 Kind of core : Cu
 Core : stranded
 Operating temperature : -5...70°C
 Wire insulation material : PVC
 Insulation colour : transparent
 Core marking : colours without colour repetition + ground wire
 Earth core : yellow-green
 Kind of material : no flame propagation
 Resistance to : UV rays, mechanical stresses, most of oils, most of chemical compounds
 Application : industrial applications, industrial tools, assembly line tools, production line tools, control for machines

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
C3GBSY-KC50	8.3	3	0.75
C3GDSY-K100	9.3	3	1.5
C3GESY-KC50	12.6	3	2.5
C4GBSY-K100	8.9	4	0.75
C4GCSY-KC50	9.4	4	1
C4GDSY-K100	10	4	1.5
C4GDSY-KC50	10	4	1.5
C5GDSY-K100	10.8	5	1.5
C5GDSY-KC50	10.8	5	1.5
C7GBSY-K100	10.2	7	0.75
C7GBSY-KC50	10.2	7	0.75
C7GDSY-KC50	11.6	7	1.5
C7GESY-K100	16.4	7	2.5
C7GESY-KC50	16.4	7	2.5

Wire: control cable; MACHFLEX 350YY; BELDEN

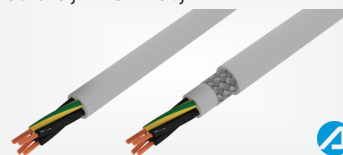


Manufacturer : BELDEN
 Shield structure : unshielded
 Rated volt. : 300V/500V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -15...70°C
 Flexibility class : 5
 Wire insulation material : PVC
 Insulation colour : grey
 Core marking : black, numbered + ground wire
 Earth core : yellow-green
 Kind of material : no flame propagation
 Resistance to : UV rays, most of oils, most of chemical compounds
 Application : industrial applications, industrial tools, assembly line tools, production line tools, control for machines

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
3GB-B100	5.6	3	0.75

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
3GB-BC50	5.6	3	0.75
3GC-B100	6	3	1
3GD-BC50	6.6	3	1.5
3GE-B100	8.3	3	2.5
3GE-BC50	8.3	3	2.5
4GB-B100	6.2	4	0.75
4GD-B100	7.3	4	1.5
4GD-BC50	7.3	4	1.5
4GE-B100	9.2	4	2.5
5GB-B100	6.8	5	0.75
5GD-B100	8.1	5	1.5
5GD-BC50	8.1	5	1.5
5GE-B100	10.2	5	2.5
6GD-BC50	8.9	6	1.5
7GD-B100	8.9	7	1.5
7GE-B100	11.2	7	2.5
7GE-BC50	11.2	7	2.5
8GC-B100	9.2	8	1
8GC-BC50	9.2	8	1
8GD-B100	10.3	8	1.5
8GD-BC50	10.3	8	1.5
9GB-BC50	9.4	9	0.75
10GB-B100	9.8	10	0.75
10GD-B100	11.7	10	1.5
12GB-B100	10.2	12	0.75
15GB-BC50	11.4	15	0.75

Wire: control cable; Pro-Met; ALPHA WIRE

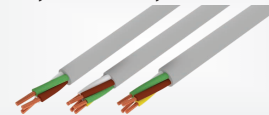


Manufacturer : ALPHA WIRE
 Rated volt. : 300V/500V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -30...70°C
 Flexibility class : 5
 Wire insulation material : PVC
 Core marking : black, numbered + ground wire
 Earth core : yellow-green
 Kind of material : no flame propagation
 Resistance to : UV rays, most of oils
 Application : industrial applications, control for machines

Information : more products from this series available on www.tme.eu

Symbol	Insulation colour	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
470041CY-CL033	transparent	9.25	4	1
470041CY-CL321	transparent	9.25	4	1
470041CY-GE033	dark grey	9.25	4	1
470041CY-GE321	dark grey	9.25	4	1
470041YY-GE033	dark grey	6.58	4	1
470041YY-GE321	dark grey	6.58	4	1
470125YY-GE321	dark grey	9.23	12	0.5
470125YY-GE033	dark grey	9.23	12	0.5
470125CY-GE321	dark grey	12	12	0.5
470125CY-GE033	dark grey	12	12	0.5
470125CY-CL321	transparent	12	12	0.5
470125CY-CL033	transparent	12	12	0.5

Wire: control cable; BIT LiYY; BITNER



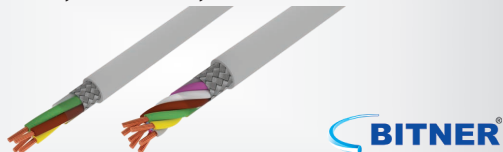
Manufacturer : BITNER
 Shield structure : unshielded
 Rated volt. : 300V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -40...80°C
 Flexibility class : 5
 Wire insulation material : PVC
 Insulation colour : grey
 Core marking : colours without colour repetition
 Kind of material : no flame propagation
 Resistance to : most of oils
 Application : industrial applications, automatics, industrial electronics, in-door

cont. on the next page

Wire: control cable; BiT LiYY; BITNER (cont.)

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
BITNER-S30127	5.8	2	1
BITNER-S30080	5	3	0.5
BITNER-S30128	6.2	3	1
BITNER-S30081	5.5	4	0.5
BITNER-S30107	6	4	0.75
BITNER-S30129	6.8	4	1
BITNER-S30151	7.5	4	1.5
BITNER-S30108	6.5	5	0.75
BITNER-S30109	7.1	6	0.75
BITNER-S30084	6.5	7	0.5
BITNER-S30132	8.3	7	1
BITNER-S30133	9.2	8	1
BITNER-S30112	9.2	10	0.75
BITNER-S30087	8.7	12	0.5
BITNER-S30115	10.8	16	0.75

Wire: control cable; BiT LiYCY; BITNER



Manufacturer	: BITNER
Shield structure	: shielded, tinned copper braid
Rated volt.	: 300V
Kind of core	: Cu
Core	: stranded
Operating temperature	: -40...80°C
Flexibility class	: 5
Wire insulation material	: PVC
Insulation colour	: grey
Core marking	: colours without colour repetition
Kind of material	: no flame propagation
Resistance to	: most of oils
Application	: industrial applications, automatics, industrial electronics, in-door

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
BITNER-S30615	5.8	2	0.75
BITNER-S30637	6.5	2	1
BITNER-S30588	5.6	3	0.5
BITNER-S30616	6.1	3	0.75
BITNER-S30638	6.9	3	1
BITNER-S30658	7.5	3	1.5
BITNER-S30589	6.2	4	0.5
BITNER-S30639	7.6	4	1
BITNER-S30659	8.4	4	1.5
BITNER-S30618	7.2	5	0.75
BITNER-S30660	9.1	5	1.5
BITNER-S30619	7.9	6	0.75
BITNER-S30592	7.2	7	0.5
BITNER-S30642	9	7	1
BITNER-S30662	9.9	7	1.5
BITNER-S30621	8.7	8	0.75
BITNER-S30643	9.9	8	1
BITNER-S30594	9.1	10	0.5
BITNER-S30664	13	10	1.5
BITNER-S30623	10.2	12	0.75

Wire: control cable; BiT 500; BITNER



Manufacturer	: BITNER
Shield structure	: unshielded
Rated volt.	: 300V/500V
Kind of core	: Cu
Core	: stranded
Operating temperature	: -40...80°C
Flexibility class	: 5
Wire insulation material	: PVC
Insulation colour	: grey
Kind of material	: no flame propagation
Resistance to	: most of oils
Application	: industrial applications, automatics, industrial electronics, in-door

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
BITNER-S54425	5.4	2	0.75

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
BITNER-S54448	5.7	2	1
BITNER-S54473	6.7	2	1.5
BITNER-S54401	5.3	3	0.5
BITNER-S54402	5.3	3	0.5
BITNER-S54426	5.7	3	0.75
BITNER-S54427	5.7	3	0.75
BITNER-S54449	6.1	3	1
BITNER-S54450	6.1	3	1
BITNER-S54474	7	3	1.5
BITNER-S54475	7	3	1.5
BITNER-S54488	8.3	3	2.5
BITNER-S54403	5.8	4	0.5
BITNER-S54428	6.3	4	0.75
BITNER-S54429	6.3	4	0.75
BITNER-S54451	6.8	4	1
BITNER-S54452	6.8	4	1
BITNER-S54476	7.8	4	1.5
BITNER-S54477	7.8	4	1.5
BITNER-S54490	9.5	4	2.5
BITNER-S54430	7	5	0.75
BITNER-S54453	7.4	5	1
BITNER-S54478	8.5	5	1.5
BITNER-S54492	10.4	5	2.5
BITNER-S54408	7	7	0.5
BITNER-S54434	7.6	7	0.75
BITNER-S54457	8	7	1
BITNER-S54458	8	7	1
BITNER-S54481	9.6	7	1.5
BITNER-S54438	10.2	10	0.75
BITNER-S54484	12.7	10	1.5
BITNER-S54439	10.2	12	0.75
BITNER-S54485	12.7	12	1.5
BITNER-S54441	10.7	14	0.75
BITNER-S54534	13.5	14	1.5
BITNER-S54443	12.1	18	0.75
BITNER-S54536	15	18	1.5
BITNER-S54446	12.7	21	0.75
BITNER-S54512	14.5	25	0.75
BITNER-S54522	15.5	25	1

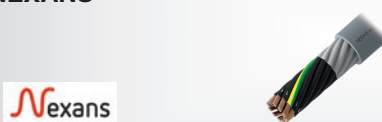
Wire: control cable; BiT LiYCY; BITNER



Manufacturer	: BITNER
Shield structure	: shielded, tinned copper braid
Rated volt.	: 300V
Kind of core	: Cu
Core	: stranded
Operating temperature	: -5...80°C
Flexibility class	: 5
Wire insulation material	: PVC
Insulation colour	: grey
Core marking	: colours without colour repetition
Features	: twisted pair conductors
Kind of material	: no flame propagation
Resistance to	: most of oils
Application	: industrial applications, automatics, industrial electronics, in-door

Symbol	Cable ext. dia. [mm]	Number of cores	No. of pairs	Core section [mm ²]
BITNER-S30849	7.7	4	2	0.5
BITNER-S30864	8.3	4	2	0.75
BITNER-S30866	10.1	8	4	0.75
BITNER-S30877	9.5	4	2	1

Wire: control cable; MOTIONLINE® ADVANCED; NEXANS



Manufacturer	: NEXANS
Shield structure	: unshielded
Rated volt.	: 600V
Kind of core	: Cu
Core	: stranded
Operating temperature	: -5...80°C
Flexibility class	: 5

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Cables

Wire: control cable; MOTIONLINE® ADVANCED; NEXANS (cont.)

Wire insulation material : PVC
 Insulation colour : grey
 Conform to the norm : UL 1581
 Core marking : black, numbered + ground wire
 Earth core : yellow-green
 Kind of material : no flame propagation
 Resistance to : flame, most of oils

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
F105004T100	5.7	4	0.5
F105007T100	7.2	7	0.5
F105012T100	8.9	12	0.5
F105018T100	10.2	18	0.5
F105025T100	12.5	25	0.5
F107512T100	9.7	12	0.75
F110003T100	6.1	3	1
F110005T100	7.2	5	1
F110007T100	8.5	7	1
F110012T100	10.5	12	1
F110018T100	12.4	18	1
F110025T100	15.1	25	1

Wire: control cable; ÖLFLEX® ROBUST 200; LAPP



Manufacturer : LAPP
 Shield structure : unshielded
 Rated volt. : 450V/750V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -50...80°C
 Flexibility class : 5
 Wire insulation material : elastomer thermoplastic TPE
 Insulation colour : black
 CPR standard : F_{ca}
 Kind of material : halogen free
 Resistance to : to weather conditions, mineral oils, ozone, UV rays, temperature, most of chemical compounds, water
 Application : elements of agricultural machinery, chemical industry, mechanical engineering, food industry, outdoor

Symbol	Cable ext. dia. [mm]	Number of cores	Symbol	Cable ext. dia. [mm]	Number of cores
OL-RB-200-2X1	8	2	OL-RB-200-4G2.5	11.5	4
OL-RB-200-2X1.5	8.6	2	OL-RB-200-4G4	14	4
OL-RB-200-2X2.5	9.8	2	OL-RB-200-4G6	15.7	4
OL-RB-200-3G1	8.4	3	OL-RB-200-5G1	10	5
OL-RB-200-3G1.5	9.1	3	OL-RB-200-5G1.5	10.8	5
OL-RB-200-3G2.5	11.5	3	OL-RB-200-5G2.5	13.1	5
OL-RB-200-3G4	12.4	3	OL-RB-200-5G4	15.8	5
OL-RB-200-4G1	9.2	4	OL-RB-200-5G6	17.2	5
OL-RB-200-4G1.5	9.9	4	OL-RB-200-7G2.5	15.9	7

Wire: control cable; OZ-500-BK; HELUKABEL



Manufacturer : HELUKABEL
 Shield structure : unshielded
 Rated volt. : 300V/500V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -15...80°C
 Flexibility class : 5
 Wire insulation material : PVC
 Insulation colour : black
 Core marking : black, numbered
 CPR standard : E_{ca}
 Kind of material : no flame propagation
 Resistance to : UV rays, most of oils, most of chemical compounds
 Application : assembly line tools, production line tools, machine terminals, control for machines

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
OZ500-BK-4X0.75	6.3	4	0.75
OZ500-BK-2G1.50	6.4	2	1.5
OZ500-BK-2X0.50	4.8	2	0.5

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
OZ500-BK-2X0.75	5.3	2	0.75
OZ500-BK-2X1.00	5.6	2	1
OZ500-BK-2X2.50	7.8	2	2.5
OZ500-BK-5X0.75	6.9	5	0.75

Wire: assembly; H05V-K; HELUKABEL



Manufacturer : HELUKABEL
 Rated volt. : 300V/500V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -30...80°C
 Flexibility class : 5
 Wire insulation material : PVC
 Number of cores : 1
 CPR standard : E_{ca}
 Kind of material : no flame propagation

Information : more products from this series available on www.tme.eu

Symbol	Insulation colour	Cable ext. dia. [mm]	Core section [mm ²]
H05VK05BL	blue	2.1...2.5	0.5
H05VK05BL.D	dark blue	2.1...2.5	0.5
H05VK05BR	brown	2.1...2.5	0.5
H05VK05GN	green	2.1...2.5	0.5
H05VK05RT	red	2.1...2.5	0.5
H05VK05SW	black	2.1...2.5	0.5
H05VK05WS	white	2.1...2.5	0.5
H05VK075BR	brown	2.2...2.7	0.75
H05VK075GE	yellow	2.2...2.7	0.75
H05VK075GN/GE	yellow-green	2.2...2.7	0.75
H05VK075OR	orange	2.2...2.7	0.75
H05VK075RT	red	2.2...2.7	0.75
H05VK075VI	violet	2.2...2.7	0.75
H05VK075WS	white	2.2...2.7	0.75
H05VK100BL	blue	2.4...2.8	1
H05VK100BR	brown	2.4...2.8	1
H05VK100GE	yellow	2.4...2.8	1
H05VK100GN/GE	yellow-green	2.4...2.8	1
H05VK100GR	grey	2.4...2.8	1
H05VK100RT	red	2.4...2.8	1

Wire: assembly; LgY; BQ CABLE



Manufacturer : BQ CABLE
 Rated volt. : 300V/500V
 Kind of core : Cu
 Core : stranded
 Operating temperature : -40...105°C
 Number of cores : 1
 Flexibility class : 5
 Wire insulation material : PVC

Information : more products from this series available on www.tme.eu

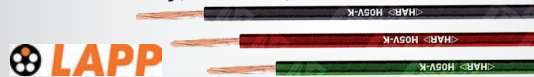
Symbol	Insulation colour	Ø _{ext. cable} [mm]	Core section [mm ²]
LGY0.35-BD	dark blue	1.4	0.35
LGY0.35-BK	black	1.4	0.35
LGY0.35-BK/RD	black-red	1.4	0.35
LGY0.35-BL/GR	blue-green	1.4	0.35
LGY0.35-WH/BR	white-brown	1.4	0.35
LGY0.35-WH/VI	white-violet	1.4	0.35
LGY0.50-BD	dark blue	1.6	0.5
LGY0.50-BK	black	1.6	0.5
LGY0.50-BK/VI	black-violet	1.6	0.5
LGY0.50-RD/WH	red-white	1.6	0.5
LGY0.75-BD	dark blue	1.9	0.75
LGY0.75-BK	black	1.9	0.75
LGY0.75-BK/BR	black-brown	1.9	0.75
LGY0.75-BL/BR	blue-brown	1.9	0.75
LGY0.75-PK/BK	pink-black	1.9	0.75
LGY1.0-BD	dark blue	2.1	1
LGY1.0-BK	black	2.1	1
LGY1.0-BK/PK	black-pink	2.1	1
LGY1.0-YL/RD	yellow-red	2.1	1
LGY1.5-BD	dark blue	2.4	1.5
LGY1.5-BK	black	2.4	1.5

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Wire: assembly; LgY; BQ CABLE (cont.)

Symbol	Insulation colour	Ø _{ext. cable} [mm]	Core section [mm ²]
LGY1.5-BK/RD	black-red	2.4	1.5
LGY1.5-BK/WH	black-white	2.4	1.5
LGY2.5-BL	blue	3	2.5
LGY2.5-BL/BK	blue-black	3	2.5
LGY2.5-BR	brown	3	2.5
LGY2.5-GY/WH	grey-white	3	2.5

Wire: assembly; H07V-K; LAPP



Manufacturer : LAPP
 Rated volt. : 450V/750V
 Operating temperature : -30...80°C
 Kind of core : Cu
 Core : stranded
 Wire insulation material : PVC
 Flexibility class : 5
 Number of cores : 1

Kind of material : no flame propagation, flame retardant
Information : *more products from this series available on www.tme.eu*

Symbol	Core section [mm ²]	Ø _{ext. cable} [mm]	Colour
H07V-K1X1.5DBL	1.5	2.8...3.4	dark blue
H07V-K1X1.5BK	1.5	2.8...3.4	black
H07V-K1X1.5GY	1.5	2.8...3.4	grey
H07V-K1X1.50BK.150	1.5	2.8...3.4	black
H07V-K1X1.50BL.150	1.5	2.8...3.4	blue
H07V-K1X1.50GR.150	1.5	2.8...3.4	grey
H07V-K1X2.50BR.100	2.5	3.4...4.1	brown
H07V-K1X2.50RD.100	2.5	3.4...4.1	red
H07V-K1X2.5BL	2.5	3.4...4.1	blue
H07V-K1X2.5OR	2.5	3.4...4.1	orange
H07V-K1X4.0WH	4	3.9...4.8	white
H07V-K1X4.0BR	4	3.9...4.8	brown
H07V-K1X4.0R	4	3.9...4.8	orange
H07V-K1X6.0BR	6	4.4...5.3	brown
H07V-K1X6.0BK	6	4.4...5.3	black
H07V-K1X6.0OR	6	4.4...5.3	orange
H07V-K1X10.0BR	10	5.7...6.8	brown
H07V-K1X10.0OR	10	5.7...6.8	orange
H07V-K1X16.0GRYL	16	6.7...8.1	yellow-green
H07V-K1X25OR	25	8.4...10.2	orange
H07V-K1X35GRYL	35	9.7...11.7	yellow-green
H07V-K1X70BK	70	13.2...16	black
H07V-K1X95BK	95	15.1...18.2	black
H07V-K1X95BL	95	15.1...18.2	blue
H07V-K1X95GRYL	95	15.1...18.2	yellow-green
H07V-K1X120BK	120	16.7...20.2	black
H07V-K1X150GRYL	150	18.6...22.5	yellow-green
H07V-K1X185BK	185	20.6...24.9	black
H07V-K1X240GRYL	240	23.4...28.4	yellow-green

Wire: assembly; BitOne; BITNER



Manufacturer : BITNER
 Kind of core : Cu
 Core : stranded
 Shield structure : unshielded
 Operating temperature : -40...80°C
 Number of cores : 1
 Flexibility class : 5
 Wire insulation material : PVC

Symbol	Insulation colour	Ø _{ext. cable} [mm]	Core section [mm ²]
BITNER-IG2050.02	grey	2.2	0.5
BITNER-IG2050.03	black	2.2	0.5
BITNER-IG2050.05	red	2.2	0.5
BITNER-IG2050.06	blue	2.2	0.5
BITNER-IG2050.09	brown	2.2	0.5
BITNER-IG2050.43	pink	2.2	0.5
BITNER-IG2050.44	dark blue	2.2	0.5
BITNER-IG2051.03	black	2.4	0.75
BITNER-IG2051.04	orange	2.4	0.75
BITNER-IG2051.10	white	2.4	0.75
BITNER-IG2051.13	yellow-green	2.4	0.75

Symbol	Insulation colour	Ø _{ext. cable} [mm]	Core section [mm ²]
BITNER-IG2052.03	black	2.5	1
BITNER-IG2052.05	red	2.5	1
BITNER-IG2052.07	green	2.5	1
BITNER-IG2052.09	brown	2.5	1
BITNER-IG2052.11	yellow	2.5	1
BITNER-IG2052.43	pink	2.5	1
BITNER-IG2052.44	dark blue	2.5	1
BITNER-IG2000.06	blue	2.9	1.5
BITNER-IG2001.05	red	3.6	2.5
BITNER-IG2001.06	blue	3.6	2.5
BITNER-IG2002.05	red	4	4
BITNER-IG2002.13	yellow-green	4	4
BITNER-IG2003.09	brown	4.5	6
BITNER-IG2004.03	black	5.9	10
BITNER-IG2004.05	red	5.9	10
BITNER-IG2004.13	yellow-green	5.9	10
BITNER-IG2005.06	blue	6.9	16

Wire: assembly; LgYc; MANEX



Manufacturer : MANEX
 Kind of core : Cu
 Core : stranded
 Operating temperature : -40...90°C
 Number of cores : 1
 Flexibility class : 5
 Wire insulation material : PVC

Symbol	Insulation colour	Ø _{ext. cable} [mm]	Core section [mm ²]
H05V2-K-0.50-BK	black	2.5	0.5
H05V2-K-0.50-BL	blue	2.5	0.5
H05V2-K-0.50-BR	brown	2.5	0.5
H05V2-K-0.75-BK	black	2.7	0.75
H05V2-K-0.75-BR	brown	2.7	0.75
H05V2-K-0.75-GY	grey	2.7	0.75
H05V2-K-1.00-BK	black	2.9	1
H05V2-K-1.00-GY	grey	2.9	1
H05V2-K-1.00-WH	white	2.9	1
H05V2-K-1.50-BL	blue	3.2	1.5
H05V2-K-1.50-BR	brown	3.2	1.5
H05V2-K-2.50-BK	black	3.7	2.5
H05V2-K-2.50-BR	brown	3.7	2.5
H05V2-K-2.50-RD	red	3.7	2.5
H07V2-K-0.50-BK	black	3	0.5
H07V2-K-0.50-BL	blue	3	0.5
H07V2-K-0.50-BR	brown	3	0.5
H07V2-K-0.50-RD	red	3	0.5
H07V2-K-0.75-BL	blue	3.2	0.75
H07V2-K-0.75-GY	grey	3.2	0.75
H07V2-K-1.00-BK	black	3.3	1
H07V2-K-1.00-BL	blue	3.3	1
H07V2-K-1.00-BR	brown	3.3	1
H07V2-K-1.00-WH	white	3.3	1
H07V2-K-1.50-BK	black	3.6	1.5
H07V2-K-1.50-BL	blue	3.6	1.5
H07V2-K-1.50-GY	grey	3.6	1.5
H07V2-K-2.50-BK	black	4.1	2.5
H07V2-K-2.50-BL	blue	4.1	2.5
H07V2-K-2.50-GY	grey	4.1	2.5

Silver plated copper wires; BQ CABLE



Manufacturer : BQ CABLE
 Kind of core : Cu, silver plated
 Operating temperature : -200...800°C
 Features : silver plating min. 0,7µm
Information : *more products from this series available on www.tme.eu*

Symbol	Package contents [m]	Out. diam. [mm]	Net weight [g]
SCW-0.35/100	160	0.35	100
SCW-0.35/250	312	0.35	250
SCW-0.35/500	620	0.35	500
SCW-0.40/100	88	0.4	100

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Cables

Silver plated copper wires; BQ CABLE (cont.)

Symbol	Package contents [m]	Out. diam. [mm]	Net weight [g]
SCW-0.40/250	221	0.4	250
SCW-0.40/500	443	0.4	500
SCW-0.50/100	60	0.5	100
SCW-0.50/250	150	0.5	250
SCW-0.50/500	300	0.5	500
SCW-0.60/100	40	0.6	100
SCW-0.60/250	104	0.6	250
SCW-0.60/500	200	0.6	500
SCW-0.70/100	29	0.7	100
SCW-0.70/250	72	0.7	250
SCW-0.70/500	145	0.7	500
SCW-0.80/100	22	0.8	100
SCW-0.80/250	58	0.8	250
SCW-0.80/500	110	0.8	500
SCW-0.90/100	18	0.9	100
SCW-0.90/250	44	0.9	250
SCW-0.90/500	88	0.9	500
SCW-1.00/100	14	1	100
SCW-1.00/250	36	1	250
SCW-1.00/500	72	1	500
SCW-1.10/100	11.5	1.1	100
SCW-1.10/250	29.5	1.1	250
SCW-1.10/500	59	1.1	500
SCW-1.20/100	9.5	1.2	100
SCW-1.20/250	24.5	1.2	250
SCW-1.20/500	49	1.2	500
SCW-1.50/100	6	1.5	100
SCW-1.50/250	15	1.5	250
SCW-1.50/500	30	1.5	500
SCW-2.00/100	3	2	100
SCW-2.00/250	8	2	250
SCW-2.00/500	16	2	500

Symbol	Out. diam. [mm]	Net weight [kg]	Package [m]
DNE0.25/0.25	0.25	0.25	500
DNE0.30/0.50	0.3	0.5	800
DNE0.35/0.25	0.35	0.25	270
DNE0.40/0.50	0.4	0.5	440
DNE0.45/0.25	0.45	0.25	170
DNE0.50/0.50	0.5	0.5	280
DNE0.55/0.25	0.55	0.25	110
DNE0.60/0.50	0.6	0.5	194
DNE0.65/0.25	0.65	0.25	84
DNE0.70/0.50	0.7	0.5	142
DNE0.75/0.25	0.75	0.25	63
DNE0.80/0.50	0.8	0.5	110
DNE0.85/0.25	0.85	0.25	47
DNE0.90/0.50	0.9	0.5	88
DNE0.95/0.25	0.95	0.25	39
DNE1.00/0.50	1	0.5	70
DNE1.05/0.25	1.05	0.25	30
DNE1.10/0.50	1.1	0.5	56
DNE1.15/0.25	1.15	0.25	26
DNE1.20/0.50	1.2	0.5	48
DNE1.25/0.25	1.25	0.25	22
DNE1.30/0.50	1.3	0.5	42
DNE1.35/0.25	1.35	0.25	20
DNE1.40/0.50	1.4	0.5	36
DNE1.45/0.25	1.45	0.25	17
DNE1.50/0.50	1.5	0.5	32
DNE1.55/0.25	1.55	0.25	14.5
DNE1.60/0.50	1.6	0.5	26
DNE1.65/0.25	1.65	0.25	13
DNE1.70/0.50	1.7	0.5	24
DNE1.75/0.25	1.75	0.25	11.3
DNE1.80/0.50	1.8	0.5	20
DNE1.85/0.25	1.85	0.25	10.2
DNE1.90/0.50	1.9	0.5	18
DNE2.00/0.25	2	0.25	8.5
DNE2.50/0.50	2.5	0.5	11

Silver plated copper wires; DONAU ELEKTRONIK



Manufacturer : DONAU ELEKTRONIK
 Operating temperature : max. 155°C
 Kind of core : Cu, silver plated

Symbol	Colour	Out. diam. [mm]
D-LD10-0	red	0.1
D-LD10-1	black	0.1
D-LD10-2	blue	0.1
D-LD10-3	yellow	0.1
D-LD10-4	green	0.1
D-LD10-6	violet	0.1
D-LD10-7	orange	0.1
D-LD15-0	red	0.15
D-LD15-1	black	0.15
D-LD15-2	blue	0.15
D-LD15-3	yellow	0.15
D-LD15-4	green	0.15
D-LD15-6	violet	0.15
D-LD15-7	orange	0.15

Wire: servo drive; MOTIONLINE® PREMIUM; NEXANS



Manufacturer : NEXANS
 Shield structure : shielded, tinned copper braid
 Rated volt. : 600V/1kV
 Kind of core : Cu
 Core : stranded
 Operating temperature : -30...80°C
 Wire insulation material : PUR
 Insulation colour : orange
 Earth core : yellow-green
 Conform to the norm : CSA FT1, UL 1581
 Resistance to : flame, most of oils
 Application : SIEMENS® STANDARD 6FX8008 PLUS

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
13-EBU15G04P	9.1	4	1.5
13-EBU13G04P	10.6	4	2.5
13-EBU11G04P	11.7	4	4
13-EBU09G04P	14.4	4	6
13-EBU05G04P	21.6	4	16
13-EBU15Z06P	11.6	6	1.5
13-EBU13Z06P	13.4	6	1.5; 2.5
13-EBU11Z06P	14.8	6	1.5; 4
13-EBU09Z06P	16.7	6	1.5; 6
13-EBU07Z06P	19.4	6	1.5; 10
13-EBU05Z06P	22.6	6	1.5; 16
13-EBU02Z06P	30.5	6	1.5; 35

Coil wire; Cu; BQ CABLE



Manufacturer : BQ CABLE
 Kind of core : Cu
 Operating temp. : -65...200°C
 Features : single coated enamelled
 Insulator material : enamel polyester imide
Information : more products from this series available on www.tme.eu

Symbol	Out. diam. [mm]	Net weight [kg]	Package [m]
DNE0.15/0.25	0.15	0.25	1600
DNE0.20/0.50	0.2	0.5	1708

Wire: servo drive; hybrid, MOTIONLINE® PREMIUM; NEXANS



Manufacturer : NEXANS
 Shield structure : shielded, tinned copper braid

cont. on the next page


Wire: servo drive; hybrid, MOTIONLINE® PREMIUM; NEXANS (cont.)

Rated volt. : 600V/1kV
 Kind of core : Cu
 Core : stranded
 Operating temperature : -30...80°C
 Wire insulation material : PUR
 Insulation colour : orange
 Core marking : black, numbered + ground wire
 Earth core : yellow-green
 Number of cores : 8
 Conform to the norm : CSA FT1, UL 1581

Resistance to : flame, most of oils
 Application : BOSCH REXROTH STANDARD
 Kind of wire : hybrid, MOTIONLINE® PREMIUM

Symbol	Cable ext. dia. [mm]	Core section [mm ²]
13-EBY07Z08P-A5	21.8	1; 1.5; 10
13-EBY11Z08P-A5	16.3	1; 1.5; 4
13-EBY13Z08P-A5	14.6	1; 2.5
13-EBY15Z08P-A5	12.2	0.75; 1.5
13-EBY17Z08P-A5	11.6	0.75; 1

Wire: servo drive; MOTIONLINE® FIXED INSTALLATION; NEXANS




Manufacturer : NEXANS
 Kind of wire : MOTIONLINE® FIXED INSTALLATION
 Shield structure : shielded, tinned copper braid
 Rated volt. : 600V/1kV
 Kind of core : Cu
 Core : stranded
 Operating temperature : -10...80°C
 Wire insulation material : PVC
 Insulation colour : orange
 Core marking : black, numbered + ground wire
 Earth core : yellow-green
 Conform to the norm : CSA FT1, UL 1581

Resistance to : flame, most of oils
 Kind of material : no flame propagation
 Application : SIEMENS® STANDARD 6FX8008

Symbol	Cable ext. dia. [mm]	Number of cores	Core section [mm ²]
13-EPS09G04R-A1	13.5	4	6
13-EPS13G04R-A1	9.6	4	2.5
13-EPS15G04R-A1	8	4	1.5

Wire: ribbon; Pitch: 1.27mm; CONNFLY



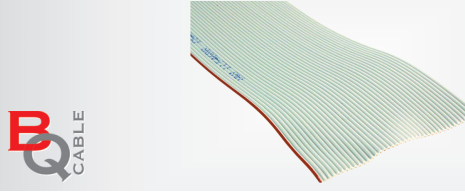
Manufacturer : CONNFLY
 Shield structure : unshielded
 Rated voltage : 300V
 Kind of core : Cu, tinned
 Core : stranded
 Operating temperature : -20...80°C
 Wire insulation material : PVC
 Core diameter : 28AWG
 Earth core : none
 Tape pitch : 1.27mm

Information : more products from this series available on www.tme.eu

Symbol	Core marking	Number of cores
DS1058-08M28	colours without colour repetition	8
DS1058-10M28	colours without colour repetition	10
DS1058-14M28	colours with colour repetition	14
DS1058-16M28	colours with colour repetition	16
DS1058-20M28	colours with colour repetition	20
DS1058-24M28	colours with colour repetition	24
DS1058-26M28	colours with colour repetition	26
DS1058-34M28	colours with colour repetition	34

Symbol	Core marking	Number of cores
DS1058-40M28	colours with colour repetition	40
DS1058-50M28	colours with colour repetition	50
DS1058-60M28	colours with colour repetition	60

Wire: ribbon; Pitch: 1.27mm; BQ CABLE




Manufacturer : BQ CABLE
 Type of wire : ribbon
 Shield structure : unshielded
 Rated volt. : 300V
 Kind of core : Cu, tinned
 Core : stranded
 Core diameter : 28AWG
 Operating temperature : -20...105°C
 Wire insulation material : PVC
 Insulation colour : grey
 Conform to the norm : UL 2651, VW-1

Tape pitch : 1.27mm

Symbol	Number of cores	Symbol	Number of cores
FLC-06/30-E	6	FLC-26/30-E	26
FLC-08/30-E	8	FLC-34/30-E	34
FLC-09/30-E	9	FLC-40/30-E	40
FLC-10/30-E	10	FLC-50/30-E	50
FLC-14/30-E	14	FLC-60/30-E	60
FLC-16/30-E	16	FLC-64/30-E	64
FLC-20/30-E	20		

Connecting leads

Patch cord; BELDEN



Manufacturer : BELDEN
 Kind of core : Cu
 Kind of material : no flame propagation

Symbol	Kind of wire	Ethernet category	Core	Number of cores	Core diameter [AWG]	Cable length [m]
CA00600.00C05	SF/UTP	Cat 5e	wire	8	24	5
CA00613.00C03	SF/UTP	Cat 5e	stranded	8	26	3
CA00613.00C10	SF/UTP	Cat 5e	stranded	8	26	10
CA00652.00C01	S/FTP	Cat 6a	stranded	8	26	1
CA00652.00C03	S/FTP	Cat 6a	stranded	8	26	3
CA00652.00C05	S/FTP	Cat 6a	stranded	8	26	5
CA00652.00C10	S/FTP	Cat 6a	stranded	8	26	10
CA00730.00C01	SF/UTP	Cat 5e	stranded	4	22	1
CA00730.00C03	SF/UTP	Cat 5e	stranded	4	22	3
CA00730.00C05	SF/UTP	Cat 5e	stranded	4	22	5
CAE4102003M	S/FTP	Cat 6a	stranded	8	26	3

Patch cord; S/FTP; HARTING



Manufacturer : HARTING
 Kind of core : Cu
 Core : stranded
 Version : connection 1:1
 Wire insulation material : PUR
 Insulation colour : yellow
 Core diameter : 26AWG
 Application : industrial Ethernet
 Features : low-smoke

Information : more products from this series available on www.tme.eu

cont. on the next page

Connecting leads

Patch cord; S/FTP; HARTING (cont.)

Symbol	Ethernet category	Cable length [m]	Symbol	Ethernet category	Cable length [m]
9474747101	Cat 6	0.2	9474747114	Cat 6	4
9474747102	Cat 6	0.3	9474747117	Cat 6	7
9474747106	Cat 6	0.7	9474747120	Cat 6	9
9474747110	Cat 6	1.5	9474747124	Cat 6	16
9474747111	Cat 6	2			

Patch cord; Cat 6a; S/FTP; HARTING



Manufacturer : HARTING
Kind of core : Cu
Core : stranded
Ethernet category : Cat 6a
Wire insulation material : PUR
Insulation colour : yellow
Kind of material : halogen free
Core diameter : 27AWG
Resistance to : most of oils
Version : connection 1:1
Information : *more products from this series available on www.tme.eu*

Symbol	Cable length [m]	Symbol	Cable length [m]
09488447745005	0.5	09488447745050	5
09488485745005	0.5	09488447745075	7.5
09488484745010	1	09488485745075	7.5
09488547745010	1	09488547745075	7.5
09488484745020	2	09488447745100	10
09488547745020	2	09488485745100	10
09488447745030	3	09488585745100	10
09488484745030	3	09488585745150	15
09488547745030	3	09488547745200	20

Patch cord; S/FTP, ETHERLINE® Cat.6a; LAPP



Manufacturer : LAPP
Kind of core : Cu
Core : stranded
Ethernet category : Cat 6a
Core diameter : 26AWG
Wire insulation material : LSZH
Kind of material : halogen free
Conform to the norm : UL DUXR.E353543, UL DUXR7.E353543
Flammability rating : UL94

Symbol	Insulation colour	Cable length [m]	Symbol	Insulation colour	Cable length [m]
ETH-24441316	black	0.25	ETH-24441395	red	2
ETH-24441317	black	0.5	ETH-24441396	red	3
ETH-24441318	black	1	ETH-24441407	white	0.5
ETH-24441320	black	2	ETH-24441408	white	1
ETH-24441331	blue	0.25	ETH-24441325	black	15
ETH-24441332	blue	0.5	ETH-24441327	black	25
ETH-24441336	blue	3	ETH-24441328	black	30
ETH-24441347	green	0.5	ETH-24441341	blue	20
ETH-24441349	green	1.5	ETH-24441353	green	7.5
ETH-24441350	green	2	ETH-24441355	green	15
ETH-24441352	green	5	ETH-24441357	green	25
ETH-24441363	grey	1	ETH-24441390	orange	50
ETH-24441365	grey	2	ETH-24441398	red	7.5
ETH-24441366	grey	3	ETH-24441400	red	15
ETH-24441367	grey	5	ETH-24441432	yellow	25
ETH-24441376	orange	0.25	ETH-24441433	yellow	30
ETH-24441392	red	0.5			

Patch cord; S/FTP, TX6A 10Gig; PANDUIT



Manufacturer : PANDUIT
Kind of wire : S/FTP, TX6A 10Gig
Ethernet category : Cat 6a
Core diameter : 26AWG
Kind of core : Cu
Core : stranded
Wire insulation material : LSZH
Ver. : round, connection 1:1

Information : *more products from this series available on www.tme.eu*

Symbol	Cable length [m]	Insulation colour	Symbol	Cable length [m]	Insulation colour
STP6X0.5MBL	0.5	black	STP6X2MRD	2	red
STP6X0.5MBU	0.5	blue	STP6X2MVL	2	violet
STP6X0.5MIG	0.5	grey	STP6X2MYL	2	yellow
STP6X0.5MRD	0.5	red	STP6X3MBL	3	black
STP6X1MBL	1	black	STP6X3MIG	3	grey
STP6X1MBU	1	blue	STP6X3MRD	3	red
STP6X1MGR	1	green	STP6X5MBU	5	blue
STP6X1MIG	1	grey	STP6X5MGR	5	green
STP6X1MRD	1	red	STP6X5MVL	5	violet
STP6X2MBL	2	black	STP6X5MYL	5	yellow
STP6X2MIG	2	grey			

Patch cord; U/UTP, TX6-28; PANDUIT



Manufacturer : PANDUIT
Kind of wire : TX6-28, U/UTP
Ethernet category : Cat 6
Core diameter : 28AWG
Kind of core : Cu
Core : stranded
Wire insulation material : LSZH
Ver. : round, connection 1:1

Information : *more products from this series available on www.tme.eu*

Symbol	Cable length [m]	Insulation colour	Symbol	Cable length [m]	Insulation colour
UTP28SP0.2M	0.2	white	UTP28SP2MBL	2	black
UTP28SP0.5M	0.5	white	UTP28SP2MGY	2	grey
UTP28SP0.5MVL	0.5	violet	UTP28SP2MYL	2	yellow
UTP28SP0.5MGY	0.5	grey	UTP28SP3MBL	3	black
UTP28SP1M	1	white	UTP28SP3MYL	3	yellow
UTP28SP1MVL	1	violet	UTP28SP5MBL	5	black
UTP28SP1MGY	1	grey	UTP28SP5MVL	5	violet
UTP28SP1MYL	1	yellow	UTP28SP5MBU	5	blue
UTP28SP2M	2	white	UTP28SP5MYL	5	yellow

Patch cord; Cat 6; U/UTP; HELUKABEL



Manufacturer : HELUKABEL
Ethernet category : Cat 6
Kind of core : Cu
Core : stranded
Core diameter : 24AWG
Wire insulation material : PVC
Ver. : connection 1:1

Information : *more products from this series available on www.tme.eu*

cont. on the next page

Patch cord; Cat 6; U/UTP; HELUKABEL (cont.)

Symbol	Cable length [m]	Insulation colour
HELUKAT-803097	0.5	grey
HELUKAT-803106	1	red
HELUKAT-803115	2	blue
HELUKAT-803125	5	green
HELUKAT-803135	10	yellow
HELUKAT-803144	15	black

Patch cord; Cat 6; S/FTP; LSZH; HELUKABEL



Manufacturer : HELUKABEL
 Kind of core : Cu
 Core : stranded
 Ethernet category : Cat 6
 Core diameter : 27AWG
 Wire insulation material : LSZH
 Kind of material : halogen free
 Ver. : connection 1:1

Information : *more products from this series available on www.tme.eu*

Symbol	Insulation colour	Cable length [m]
HELUKAT-802991	red	0.5
HELUKAT-802997	red	10
HELUKAT-803000	blue	1
HELUKAT-803009	green	2
HELUKAT-803018	yellow	3
HELUKAT-803027	black	5
HELUKAT-82862	grey	7.5
HELUKAT-82864	grey	15

Patch cord; F/UTP; Cat 6; LANBERG



Manufacturer : LANBERG
 Ethernet category : Cat 6
 Kind of core : CCA
 Core : stranded
 Core diameter : 26AWG
 Wire insulation material : PVC
 Features : FLUKE PASSED certificate
 Application : network infrastructure in apartments and houses
Information : *more products from this series available on www.tme.eu*

Symbol	Cable length [m]	Insulation colour
PCF6-10CC-0025-W	0.25	white
PCF6-10CC-0050-BK	0.5	black
PCF6-10CC-0100-R	1	red
PCF6-10CC-0150-B	1.5	blue
PCF6-10CC-0200-S	2	grey
PCF6-10CC-0300-G	3	green
PCF6-10CC-0500-Y	5	yellow
PCF6-10CC-1000-W	10	white
PCF6-10CC-1500-BK	15	black
PCF6-10CC-2000-R	20	red
PCF6-10CC-3000-B	30	blue

Patch cord; U/UTP; Cat 6; LANBERG



Manufacturer : LANBERG
 Ethernet category : Cat 6

Kind of core : CCA
 Core : stranded
 Core diameter : 26AWG
 Wire insulation material : PVC
 Features : FLUKE PASSED certificate
 Application : network infrastructure in apartments and houses
Information : *more products from this series available on www.tme.eu*

Symbol	Cable length [m]	Insulation colour
PCU6-10CC-0025-W	0.25	white
PCU6-10CC-0050-BK	0.5	black
PCU6-10CC-0100-R	1	red
PCU6-10CC-0150-B	1.5	blue
PCU6-10CC-0200-O	2	orange
PCU6-10CC-0300-S	3	grey
PCU6-10CC-0500-G	5	green
PCU6-10CC-0750-Y	7.5	yellow
PCU6-10CC-1000-W	10	white
PCU6-10CC-1500-BK	15	black
PCU6-10CC-2000-R	20	red

Patch cord; U/UTP; Cat 6; LSZH; LANBERG



Manufacturer : LANBERG
 Ethernet category : Cat 6
 Kind of core : Cu
 Core : stranded
 Core diameter : 26AWG
 Wire insulation material : LSZH
 Kind of material : halogen free
 Features : FLUKE PASSED certificate
 Application : network infrastructure in apartments and houses
Information : *more products from this series available on www.tme.eu*

Symbol	Cable length [m]	Insulation colour
PCU6-10CU-0025-B	0.25	blue
PCU6-10CU-0050-G	0.5	green
PCU6-10CU-0100-O	1	orange
PCU6-10CU-0150-R	1.5	red
PCU6-10CU-0200-W	2	white
PCU6-10CU-0300-Y	3	yellow
PCU6-10CU-1000-B	10	blue
PCU6-10CU-1500-BK	15	black
PCU6-10CU-2000-B	20	blue

Patch cord; S/FTP; Cat 6; LSZH; LANBERG



Manufacturer : LANBERG
 Ethernet category : Cat 6
 Kind of core : Cu
 Core : stranded
 Core diameter : 26AWG
 Wire insulation material : LSZH
 Features : FLUKE PASSED certificate
 Application : network infrastructure in apartments and houses
Information : *more products from this series available on www.tme.eu*

Symbol	Cable length [m]	Insulation colour
PCF6-10CU-0025-B	0.25	blue
PCF6-10CU-0050-BK	0.5	black
PCF6-10CU-0100-G	1	green
PCF6-10CU-0150-O	1.5	orange
PCF6-10CU-0200-R	2	red
PCF6-10CU-0300-S	3	grey
PCF6-10CU-0500-W	5	white
PCF6-10CU-1000-Y	10	yellow
PCF6-10CU-1500-BK	15	black
PCF6-10CU-2000-G	20	green

Connecting leads

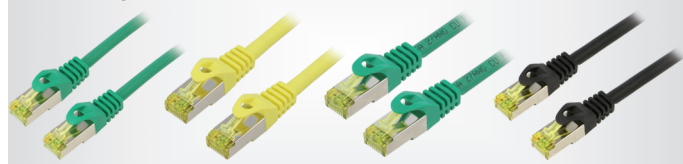
Patch cord; S/FTP; Cat 6a; LSZH; LANBERG



Manufacturer : LANBERG
Ethernet category : Cat 6a
Kind of core : CCA
Core : stranded
Core diameter : 26AWG
Wire insulation material : LSZH
Kind of material : halogen free
Features : FLUKE PASSED certificate
Application : corporate network infrastructures
Information : **more products from this series available on www.tme.eu**

Symbol	Cable length [m]	Insulation colour
PCF6A-10CC-0025-B	0.25	blue
PCF6A-10CC-0050-BK	0.5	black
PCF6A-10CC-0100-G	1	green
PCF6A-10CC-0150-O	1.5	orange
PCF6A-10CC-0200-R	2	red
PCF6A-10CC-0300-S	3	grey
PCF6A-10CC-0500-W	5	white
PCF6A-10CC-1000-Y	10	yellow
PCF6A-10CC-2000-B	20	blue

Patch cord; S/FTP; Cat 6a; LSZH; LANBERG



Manufacturer : LANBERG
Ethernet category : Cat 6a
Kind of core : Cu
Core : stranded
Core diameter : 27AWG
Wire insulation material : LSZH
Kind of material : halogen free
Features : FLUKE PASSED certificate
Application : corporate network infrastructures
Information : **more products from this series available on www.tme.eu**

Symbol	Cable length [m]	Insulation colour
PCF6A-10CU-0025-B	0.25	blue
PCF6A-10CU-0050-BK	0.5	black
PCF6A-10CU-0100-G	1	green
PCF6A-10CU-0150-R	1.5	red
PCF6A-10CU-0200-S	2	grey
PCF6A-10CU-0300-Y	3	yellow
PCF6A-10CU-1000-S	10	grey

Patch cord; S/FTP; Cat 7; LSZH; LANBERG

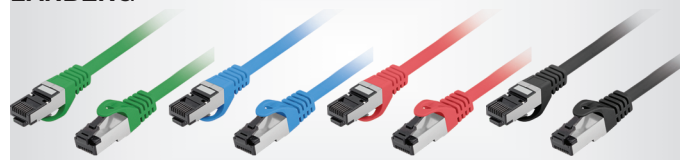


Manufacturer : LANBERG
Ethernet category : Cat 7
Kind of core : Cu
Core : stranded
Core diameter : 26AWG
Insulation colour : grey
Wire insulation material : LSZH
Kind of material : halogen free
Features : FLUKE PASSED certificate
Application : data centers

Symbol	Cable length [m]	Symbol	Cable length [m]
PCF7-10CU-0025-S	0.25	PCF7-10CU-0300-S	3
PCF7-10CU-0050-S	0.5	PCF7-10CU-0500-S	5

Symbol	Cable length [m]	Symbol	Cable length [m]
PCF7-10CU-0100-S	1	PCF7-10CU-1000-S	10
PCF7-10CU-0150-S	1.5	PCF7-10CU-1500-S	15
PCF7-10CU-0200-S	2	PCF7-10CU-2000-S	20

Patch cord; S/FTP; Cat 8.1; LSZH; LANBERG



Manufacturer : LANBERG
Ethernet category : Cat 8.1
Kind of core : Cu
Core : stranded
Core diameter : 26AWG
Wire insulation material : LSZH
Kind of material : halogen free
Features : FLUKE PASSED certificate
Application : data centers
Information : **more products from this series available on www.tme.eu**

Symbol	Cable length [m]	Insulation colour
PCF8-10CU-0025-B	0.25	blue
PCF8-10CU-0050-BK	0.5	black
PCF8-10CU-0100-G	1	green
PCF8-10CU-0150-R	1.5	red
PCF8-10CU-0200-S	2	grey
PCF8-10CU-0300-W	3	white
PCF8-10CU-0500-Y	5	yellow

Cable: coaxial; CoaXPress (CXP); 75Ω; 3M



Manufacturer : 3M
Manufacturer series : CoaXPress (CXP)
Shield structure : shielded, braided made of copper wires
Impedance : 75Ω
Operating temperature : 0...40°C
Insulation colour : black
Application : industrial applications, automatics, industrial electronics, robotics

Symbol	Structure	Cable length [m]
1CX12-22-0S-003.0	BNC male; both sides	3
1CX12-22-0S-005.0	BNC male; both sides	5
1CX12-22-0S-007.0	BNC male; both sides	7
1CX12-22-0S-009.0	BNC male; both sides	9
1CX12-33-0G-003.0	Micro BNC male; both sides	3
1CX12-33-0G-005.0	Micro BNC male; both sides	5
1CX12-33-0G-007.0	Micro BNC male; both sides	7
1CX12-33-0G-011.0	Micro BNC male; both sides	11
1CX6-11-0S-003.0	DIN plug; both sides	3
1CX6-11-0S-005.0	DIN plug; both sides	5
1CX6-11-0S-007.0	DIN plug; both sides	7
1CX6-11-0S-009.0	DIN plug; both sides	9
1CX12-33-0S-003.0	Micro BNC male; both sides	3
1CX12-33-0S-005.0	Micro BNC male; both sides	5
1CX12-33-0S-007.0	Micro BNC male; both sides	7
1CX12-33-0S-009.0	Micro BNC male; both sides	9

Cable: mains; Uni-Schuko; LIAN DUNG



Manufacturer : LIAN DUNG
Kind of wire : H05VV-F
I_{oper. max} : 10A
U_{rated} : 250V
Wire insulation material : PVC
Kind of core : Cu

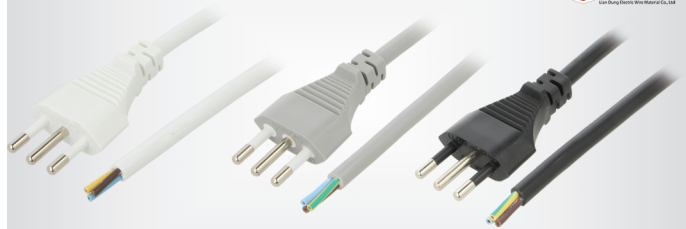
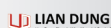
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Cable: mains; Uni-Schuko; LIAN DUNG (cont.)

Connector variant : Uni-Schuko
 Structure : CEE 7/7 (E/F) plug angled; IEC C13 female angled right
 Information : **more products from this series available on www.tme.eu**

Symbol	Insulation colour	Cable length [m]	Core section [mm ²]
SN312-3/07/1.0B	black	1	0.75
SN312-3/07/1.0G	grey	1	0.75
SN312-3/07/1.0W	white	1	0.75
SN312-3/10/1.0B	black	1	1
SN312-3/10/1.0G	grey	1	1
SN312-3/10/1.0W	white	1	1
SN312-3/07/1.8B	black	1.8	0.75
SN312-3/07/1.8G	grey	1.8	0.75
SN312-3/07/1.8W	white	1.8	0.75
SN312-3/10/1.8B	black	1.8	1
SN312-3/10/1.8G	grey	1.8	1
SN312-3/10/1.8W	white	1.8	1
SN312-3/10/2.5B	black	2.5	1
SN312-3/10/2.5G	grey	2.5	1
SN312-3/10/2.5W	white	2.5	1
SN312-3/10/3.0B	black	3	1
SN312-3/10/3.0G	grey	3	1
SN312-3/10/3.0W	white	3	1
SN312-3/10/5.0B	black	5	1
SN312-3/10/5.0G	grey	5	1
SN312-3/10/5.0W	white	5	1

Cable: mains; PVC; LIAN DUNG



Manufacturer : LIAN DUNG
 Structure : CEI 23-50 (L) plug; wires
 Kind of wire : H05VV-F
 Number of cores : 3
 Rated voltage : 250V
 I_{oper. max} : 10A
 Wire insulation material : PVC
 Connectors for the country : Italy
 Information : **more products from this series available on www.tme.eu**

Symbol	Cable length [m]	Core section [mm ²]	Insulation colour
S26-3/07/1BK	1	0.75	black
S26-3/07/1GY	1	0.75	grey
S26-3/07/1WH	1	0.75	white
S26-3/07/1.8BK	1.8	0.75	black
S26-3/07/1.8GY	1.8	0.75	grey
S26-3/07/1.8WH	1.8	0.75	white
S26-3/07/3BK	3	0.75	black
S26-3/07/3GY	3	0.75	grey
S26-3/07/3WH	3	0.75	white
S26-3/07/5BK	5	0.75	black
S26-3/07/5GY	5	0.75	grey
S26-3/07/5WH	5	0.75	white
S26-3/10/1BK	1	1	black
S26-3/10/1GY	1	1	grey
S26-3/10/1WH	1	1	white
S26-3/10/1.8BK	1.8	1	black
S26-3/10/1.8GY	1.8	1	grey
S26-3/10/1.8WH	1.8	1	white
S26-3/10/3BK	3	1	black
S26-3/10/3GY	3	1	grey
S26-3/10/3WH	3	1	white
S26-3/10/5BK	5	1	black
S26-3/10/5GY	5	1	grey
S26-3/10/5WH	5	1	white

Cable: mains; coiled; PUR; Uni-Schuko; SIMECH



Manufacturer : SIMECH
 Structure : CEE 7/7 (E/F) plug angled; wires
 Rated voltage : 250V
 Wire insulation material : PUR
 IP rating : IP20
 Number of cores : 3
 Earth core : yellow-green
 Resistance to : flame, most of oils
 Information : **more products from this series available on www.tme.eu**

Symbol	Leng. before stretch [m]	Leng. after stretch [m]	Core section [mm ²]	Insulation colour
WTT00001B	0.1	0.25	0.75	white
WTT00002B	0.2	0.5	0.75	white
WTT00003B	0.3	0.75	0.75	white
WTT00004B	0.5	1.25	0.75	white
WTT00005B	0.8	2	0.75	white
WTT00006B	0.1	0.25	1	white
WTT00007B	0.2	0.5	1	white
WTT00008B	0.3	0.75	1	white
WTT00009B	0.5	1.25	1	white
WTT00010C	0.8	2	1	black
WTT00011C	1	2.5	1	black
WTT00012C	0.1	0.25	1.5	black
WTT00013C	0.2	0.5	1.5	black
WTT00014C	0.3	0.75	1.5	black
WTT00015C	0.5	1.25	1.5	black
WTT00016C	0.8	2	1.5	black
WTT00017C	1	2.5	1.5	black
WTT00018C	1.5	3.75	1.5	black

Cable: mains; coiled; PVC; Uni-Schuko; SIMECH



Manufacturer : SIMECH
 Structure : CEE 7/7 (E/F) plug angled; wires
 Rated voltage : 250V
 IP rating : IP20
 Number of cores : 3
 Earth core : yellow-green
 Information : **more products from this series available on www.tme.eu**

Symbol	Leng. before stretch [m]	Leng. after stretch [m]	Core section [mm ²]	Insulation colour
WTT00021B	0.1	0.2	0.75	white
WTT00022B	0.2	0.4	0.75	white
WTT00023B	0.3	0.6	0.75	white
WTT00024B	0.5	1	0.75	white
WTT00025B	0.8	1.6	0.75	white
WTT00026B	0.1	0.2	1	white
WTT00027B	0.2	0.4	1	white
WTT00028B	0.3	0.6	1	white
WTT00029C	0.5	1	1	black
WTT00030C	0.8	1.6	1	black
WTT00031C	1	2	1	black
WTT00032C	0.1	0.2	1.5	black
WTT00033C	0.2	0.4	1.5	black
WTT00034C	0.3	0.6	1.5	black
WTT00035C	0.5	1	1.5	black
WTT00036C	0.8	1.6	1.5	black
WTT00037C	1	2	1.5	black
WTT00038C	1.5	3	1.5	black

Connecting leads

Cable with crimped terminals; CHEVAL



Manufacturer : CHEVAL
 Structure : terminal; wires
 Kind of terminal : flat
 Width : 4.8mm
 Cable length : 250mm

Information : more products from this series available on www.tme.eu

Symbol	Core section [mm ²]	Kind	Insulation colour
A48-035BK025	0.35	male; non-insulated	black
A48-050RD025	0.5	male; non-insulated	red
A48-075YG025	0.75	male; non-insulated	yellow-green
A48-100BK025	1	male; non-insulated	black
F48-035RD025	0.35	non-insulated; female	red
F48-050YG025	0.5	non-insulated; female	yellow-green
F48-075BK025	0.75	non-insulated; female	black
F48-100RD025	1	non-insulated; female	red
F48O48-035YG025	0.35	insulated; female	yellow-green
F48O48-050BK025	0.5	insulated; female	black
F48O48-075RD025	0.75	insulated; female	red
F48O48-100YG025	1	insulated; female	yellow-green

Cable with crimped terminals; CHEVAL

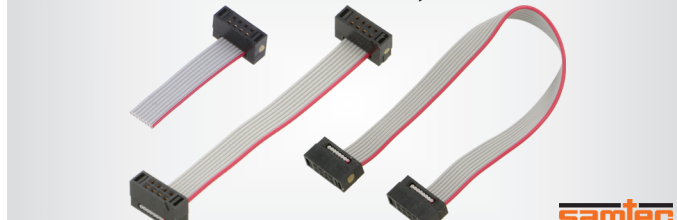


Manufacturer : CHEVAL
 Structure : terminal; wires
 Kind of terminal : flat
 Width : 6.3mm
 Cable length : 250mm

Information : more products from this series available on www.tme.eu

Symbol	Kind of wire	Core section [mm ²]	Insulation colour
E63-035BK025	H05V-K	0.35	black
E63-050RD025	H05V-K	0.5	red
E63-075YG025	H05V-K	0.75	yellow-green
E63-100BK025	H05V-K	1	black
E63-150RD025	H07V-K	1.5	red
E63-250YG025	H07V-K	2.5	yellow-green
E63OK-035BK025	H05V-K	0.35	black
E63OK-050RD025	H05V-K	0.5	red
E63OK-075YG025	H05V-K	0.75	yellow-green
E63OK-100BK025	H05V-K	1	black
E63OK-150RD025	H07V-K	1.5	red
E63OK-250YG025	H07V-K	2.5	yellow-green
J63-035BK025	H05V-K	0.35	black
J63-050RD025	H05V-K	0.5	red
J63-075YG025	H05V-K	0.75	yellow-green
J63-100BK025	H05V-K	1	black
J63-150RD025	H07V-K	1.5	red
J63-250YG025	H07V-K	2.5	yellow-green
J63ON-035BK025	H05V-K	0.35	black
J63ON-050RD025	H05V-K	0.5	red
J63ON-075YG025	H05V-K	0.75	yellow-green
J63ON-100BK025	H05V-K	1	black
J63ON-150RD025	H07V-K	1.5	red
J63ON-250YG025	H07V-K	2.5	yellow-green

Ribbon cable with IDC connectors; SAMTEC

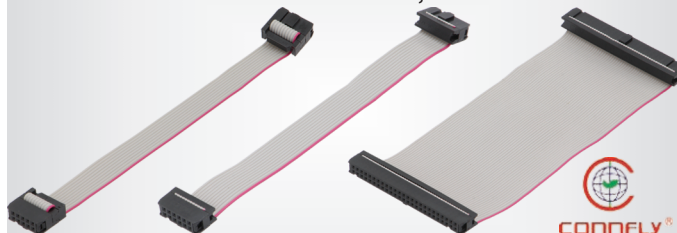


Manufacturer : SAMTEC
 Insulation colour : grey
 Contacts pitch : 1.27mm
 Tape pitch : 0.64mm
 Number of cores : 8
 Contact plating : gold-plated
 Plating th. : 10µm

Information : more products from this series available on www.tme.eu

Symbol	Cable length - inch ["]	Symbol	Cable length - inch ["]
FFSD04D020001	2	FFSD04D090001	9
FFSD04D023601	2.36	FFSD04D100001	10
FFSD04D030001	3	FFSD04D120001	12
FFSD04D040001	4	FFSD04D180001	18
FFSD04D040001R	4	FFSD04D200001	20
FFSD04D050001	5	FFSD04S010001	1
FFSD04D060001	6	FFSD04S020001	2
FFSD04D080001	8		

Ribbon cable with IDC connectors; CONNFLY



Manufacturer : CONNFLY
 Shield structure : unshielded
 Insulation colour : grey
 Wire insulation material : PVC
 Contacts pitch : 2.54mm
 Tape pitch : 1.27mm

Information : more products from this series available on www.tme.eu

Symbol	Number of cores	Cable length [m]	Ver.
DS1052-062B2MA2015	6	0.15	with strain relief
DS1052-062B2NA2020	6	0.2	-
DS1052-082B2MA2030	8	0.3	with strain relief
DS1052-082B2NA2060	8	0.6	-
DS1052-102B2MA2015	10	0.15	with strain relief
DS1052-102B2NA2020	10	0.2	-
DS1052-122B2MA2030	12	0.3	with strain relief
DS1052-122B2NA2060	12	0.6	-
DS1052-142B2MA2015	14	0.15	with strain relief
DS1052-142B2NA2020	14	0.2	-
DS1052-162B2MA2030	16	0.3	with strain relief
DS1052-162B2NA2060	16	0.6	-
DS1052-202B2MA2015	20	0.15	with strain relief
DS1052-202B2NA2020	20	0.2	-
DS1052-242B2MA2030	24	0.3	with strain relief
DS1052-242B2NA2060	24	0.6	-
DS1052-262B2MA2015	26	0.15	with strain relief
DS1052-262B2NA2020	26	0.2	-
DS1052-302B2MA2030	30	0.3	with strain relief
DS1052-302B2NA2060	30	0.6	-
DS1052-342B2MA2015	34	0.15	with strain relief
DS1052-342B2NA2020	34	0.2	-
DS1052-402B2MA2030	40	0.3	with strain relief
DS1052-402B2NA2060	40	0.6	-
DS1052-502B2MA2015	50	0.15	with strain relief
DS1052-502B2NA2030	50	0.3	-

Ribbon cable with IDC connectors; VARIOFACE; PHOENIX CONTACT



Manufacturer : PHOENIX CONTACT
 Manufacturer series : VARIOFACE
 Shield structure : unshielded
 Structure : IDC/FLK 50pin; wires
 Wire insulation material : PVC
 Insulation colour : grey
 Kind of core : Cu, tinned
 Contacts pitch : 2.54mm
 Cable structure AWG : 50x26AWG
 Operating temperature : -10...70°C
 Conform to the norm : CSA FT1,
 UL 2464/1061,
 VW-1

Symbol	Cable length	Symbol	Cable length
2305871	0.5m	2305884	4m
2305350	1m	2305897	6m
2305363	1.5m	2900152	6m
2305376	2m	2305907	8m
2305389	2.5m	2305910	10m
2305392	3m		

Ribbon cable with IDC connectors; VARIOFACE; PHOENIX CONTACT



Manufacturer : PHOENIX CONTACT
 Manufacturer series : VARIOFACE
 Shield structure : shielded
 Structure : IDC/FLK 2x24pin; both sides
 Wire insulation material : PVC
 Insulation colour : grey
 Kind of core : Cu, tinned
 Contacts pitch : 2.54mm
 Cable structure AWG : 50x26AWG
 Operating temperature : -10...70°C
 Conform to the norm : CSA FT1,
 UL 2464/1061,
 VW-1

Symbol	Cable length [m]	Symbol	Cable length [m]
2906950	0.5	2906955	3
2906951	1	2906956	4
2906952	1.5	2906957	6
2906954	2	2906959	10

Symbol Kit contents
HOT-KIT 20 pcs of HV2210 grommets; 20 pcs of HV1201 bushings; grommet HV1201 x15; grommet HV2210 x15; HV1203 grommets x15

Set of heat shrink sleeves; polyolefine; CYG/KTG



Cable accessories : set of heat shrink sleeves
 Manufacturer : CYG/KTG
 Material : polyolefine
 Shrinking ratio : 2:1

Symbol	Colour	Qty. in set [pcs.]	Symbol	Colour	Qty. in set [pcs.]
CB-HFT-SET1	-	80	CB-HFT-SET1-BK	black	80
CB-HFT-SET2	-	170	CB-HFT-SET2-BK	black	170
CB-HFT-SET3	-	505	CB-HFT-SET3-BK	black	505

Cable accessories: cable gland; polyamide; SKINTOP®; LAPP



Manufacturer : LAPP
 Cable accessories : cable gland
 Mechanical mounting : push-in
 Body material : polyamide
 Operating temperature : -20...100°C
 IP rating : IP68
 Panel thickness : 1...4mm
 Trade name : SKINTOP® CLICK
Information : more products from this series available on www.tme.eu
 Manufacturer series : SKINTOP®

Symbol	Cable ext. dia. [mm]	Panel cutout diam. [mm]	Body
CLICK-M12-RAL7001	4.5...7	12.3	dark grey
CLICK-M16-RAL7001	5...9	16.3	dark grey
CLICK-M20-RAL7001	7...13	20.3	dark grey
CLICK-M25-RAL7001	9...17	25.3	dark grey

Cable gland; brass; HUMMEL



Manufacturer : HUMMEL
 Cable accessories : cable gland
 IP rating : IP68
 Kit contents : O-ring gasket
 Body material : brass
 Operating temperature : -40...100°C
Information : more products from this series available on www.tme.eu
 Plating material : nickel

Symbol	Gland	Spanner size [mm]	Thread len. [mm]	Cable ext. dia. [mm]
HUMMEL-1609120050	M12	14	6.5	3...6.5
HUMMEL-1609200051	M20	22	6	5...9
HUMMEL-1609250051	M25	30	7	9...16
HUMMEL-1609320052	M32	36	8	15...21
HUMMEL-1609400051	M40	50	8	20...26
HUMMEL-1609500051	M50	60	9	25...31
HUMMEL-1609630050	M63	-	10	37...44
HUMMEL-1609070001	PG7	14	5	3...6.5
HUMMEL-1609090015	PG9	17	6	2...6
HUMMEL-1609110015	PG11	20	6	3...7
HUMMEL-1609110001	PG11	20	6	5...10
HUMMEL-1609130001	PG13,5	22	6.5	6...12
HUMMEL-1609160015	PG16	24	6.5	7...12
HUMMEL-1609210015	PG21	30	7	9...16
HUMMEL-1609290001	PG29	40	8	18...25
HUMMEL-1609420015	PG42	57	9	25...31
HUMMEL-1609480015	PG48	64	10	29...35

Cables accessories

Kit: grommets and strain reliefs; PVC; HELLERMANNTYTON



Manufacturer : HELLERMANNTYTON
 Material : PVC
 Operating temperature : -30...60°C

Cables accessories

Cable gland; Entrelec; PG; IP68; TE Connectivity



Manufacturer : TE Connectivity
 Kit contents : nut
 Cable accessories : cable gland
 IP rating : IP68
 Thread : PG
 Body material : polyamide
 Manufacturer series : Entrelec

Information : more products from this series available on www.tme.eu

Symbol	Gland	Body	Ø _{ext. cable} [mm]	Thread len. [mm]
1SNG626142R0000	PG9	light grey	2...6	8
1SNG626144R0000	PG9	black	2...6	8
1SNG626146R0000	PG9	grey	4...8	8
1SNG626148R0000	PG11	light grey	3...7	8
1SNG626149R0000	PG11	grey	3...7	8
1SNG626150R0000	PG11	black	3...7	8
1SNG626152R0000	PG11	grey	5...10	8
1SNG626156R0000	PG13,5	black	5...9	10
1SNG626157R0000	PG13,5	light grey	6...12	10
1SNG626160R0000	PG16	light grey	7...12	10
1SNG626161R0000	PG16	grey	7...12	10
1SNG626163R0000	PG16	light grey	10...14	10
1SNG626164R0000	PG16	grey	10...14	10
1SNG626169R0000	PG21	light grey	13...18	11
1SNG626172R0000	PG29	light grey	12...20	11
1SNG626173R0000	PG29	grey	12...20	11
1SNG626176R0000	PG29	grey	18...25	11
1SNG626177R0000	PG29	black	18...25	11

HELLERMANNTYTON hole grommet



HellermannTyton

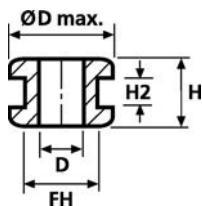


Fig. 1.

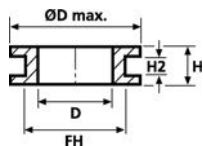


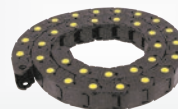
Fig. 2.

Manufacturer : HELLERMANNTYTON
 Body material : PVC
 Operating temperature : -30...60°C
 Cable accessories : grommet

Information : more products from this series available on www.tme.eu

Symbol	Body colour	Panel cutout diam. [mm]	Hole dia. [mm]	Panel thick. [mm]	Thickness [mm]	Dimensions
HV1209	black	9	4	max. 1.5	5.5	Fig. 1.
HV1212	black	6	4	max. 1	7	Fig. 1.
HV1401-PVC-FR-BK	black	9.5	5	max. 0.8	4.8	Fig. 1.
HV1216	black	8	5	max. 1.5	6.5	Fig. 1.
HV1215	black	8	6	max. 1	5	Fig. 1.
HV1218	black	10	6	max. 4	9	Fig. 1.
HV1303	black	11	8	max. 1.6	6.4	Fig. 2.
HV1301	black	11	8	max. 1	7	Fig. 2.
HV1302	black	11	8	max. 3	9	Fig. 2.
HV1205-PVC-FR-BK	black	13.5	10	max. 4	8.7	Fig. 1.
HV1204	black	12	10	max. 4	8.8	Fig. 1.
HV1206-PVC-FR-BK	black	12	10	max. 6	10.8	Fig. 1.
HV1101-PVC-FR-BK	black	19	12	max. 1.6	10	Fig. 1.
HV1305-PVC-FR-WH	white	18	14	max. 3	7	Fig. 1.

Cable chain; MEDIUM; BREVETTI



Manufacturer : BREVETTI
 Cable accessories : cable chain
 Manufacturer series : MEDIUM
 Version : frames openable from inner radius
 Colour : black
 Length : 990mm
 Ext. height : 23mm
 Int. height : 18mm

Information : more products from this series available on www.tme.eu

Symbol	Bend. rad. [mm]	Ext. width [mm]	Int. width [mm]
SR300A015040	40	27	15
SR300A025040	40	37	25
SR300A025060	60	37	25
SR300A025080	80	37	25
SR300A050080	80	62	50
SR300A075040	40	87	75

Cable accessories: cable chain; IGUS



Manufacturer : IGUS
 Cable accessories : cable chain
 Length : 1000mm
 Application : designed to 3D motion in robotics

Information : more products from this series available on www.tme.eu

Symbol	Manufacturer series	Bend. rad. [mm]	Out. diam. [mm]	Wire dia. [mm]	Chambers
TRC.30.050.0	Triflex TRC.30	50	34.5	8/10	2
TRC.40.058.0	Triflex TRC.40	28	43	11/13	2
TRC.60.087.0	Triflex TRC.60	87	65	17.5/20.5	2
TRE.100.145.0.B	Triflex TRE.100	145	108	30.5/35.5	2
TRE.40.058.0.B	Triflex TRE.40	58	43	11/13	2
TRE.60.087.0.B	Triflex TRE.60	87	65	17.5/20.5	2
TRL.30.050.0	Triflex TRL.30	50	34.5	11/12.5	2
TRL.40.058.0	Triflex TRL.40	58	45	13	3
TRL.60.087.0	Triflex TRL.60	87	65	20.5	3

Fixing clamp; SL; MPC INDUSTRIES



Manufacturer : MPC INDUSTRIES
 Cable accessories : fixing clamp
 Cover material : EPDM
 Holder material : steel
 Standard : W1
 DIN standard : DIN 3016
 Width : 13mm
 Panel cutout diam. : 6.5mm

Manufacturer series : SL

Information : more products from this series available on www.tme.eu

Symbol	Bundle diameter [mm]	Symbol	Bundle diameter [mm]
MPC-LKD1501	4.8...6.4	MPC-LKD1521	36.5...38.1
MPC-LKD1504	9.5...11.1	MPC-LKD1523	44.5...47
MPC-LKD1505	11.1...12.7	MPC-LKD1524	51...54
MPC-LKD1507A	14.3...15.9	MPC-LKD1526	41...44.5
MPC-LKD1510	19...20.6	MPC-LKD1529	60
MPC-LKD1518	31.8...33.3	MPC-LKD1531	110
MPC-LKD1519	33.3...34.9		

Worm gear clamp; MPC INDUSTRIES



Cable accessories : worm gear clamp

Manufacturer : MPC INDUSTRIES

Information : **more products from this series available on www.tme.eu**

DIN standard : DIN 3017

Tie material : chrome steel AISI 430

Symbol	Standard	Clamping [mm]	Tie width [mm]
MPC-D2008016	W2	8...16	9
MPC-D2012022	W2	12...22	9
MPC-D2025	W2	25...40	9
MPC-D2040	W2	40...60	9
MPC-D2070	W2	70...90	9
MPC-D2100	W2	100...120	9
MPC-D4010	W4	10...16	9
MPC-D4012022	W4	12...22	9
MPC-D4020	W4	20...32	9
MPC-D4032	W4	32...50	9
MPC-D4040	W4	40...60	9
MPC-D4100	W4	100...120	9
MPC-D4120	W4	120...140	9
MPC-DD2020	W2	20...32	12
MPC-DD2032	W2	32...50	12
MPC-DD2050	W2	50...70	12
MPC-DD2060	W2	60...80	12
MPC-DD2080	W2	80...100	12
MPC-DD2090	W2	90...110	12
MPC-DD2140	W2	140...160	12

Insulating tube; HIPOJACKET INDUSTRIAL; ANAMET EUROPE



Cable accessories : insulating tube

Operating temperature : -55...260°C

Resistance to : temperature, most of oils, most of lubricants

Features : halogen free; low smoke density

Material : fiberglass

Body colour : red

Plating material : silicone caoutchouc

Application : protective tube

Manufacturer : ANAMET EUROPE

Length : 30m

Manufacturer series : HIPOJACKET INDUSTRIAL

Information : **more products from this series available on www.tme.eu**

Symbol	Out. diam. [mm]	Symbol	Out. diam. [mm]
HIPOJIND-R-102-30	108	HIPOJIND-R-35-30	41
HIPOJIND-R-10-30	15	HIPOJIND-R-44-30	50
HIPOJIND-R-13-30	18	HIPOJIND-R-6-30	11
HIPOJIND-R-16-30	22	HIPOJIND-R-64-30	70
HIPOJIND-R-19-30	25	HIPOJIND-R-76-30	82
HIPOJIND-R-25-30	31	HIPOJIND-R-89-30	95

Worm gear clamp; ST; MPC INDUSTRIES



Manufacturer : MPC INDUSTRIES

Cable accessories : worm gear clamp

DIN standard : DIN 3017

Tie material : steel

Standard : W1

Features : enhanced durability

Manufacturer series : ST

Information : **more products from this series available on www.tme.eu**

Symbol	Tie width [mm]	Clamping [mm]	Symbol	Tie width [mm]	Clamping [mm]
MPC-ST008	9	8...14	MPC-ST038	9	38...50
MPC-ST011	9	11...17	MPC-ST044	9	44...56
MPC-ST013	9	13...20	MPC-ST050	9	50...65
MPC-ST015	9	15...25	MPC-ST087	9	87...112
MPC-ST019	12	19...29	MPC-ST104	9	104...138
MPC-ST026	9	26...38			

Cable tie; Classic; TIE10



Manufacturer : TIE10

Cable accessories : cable tie

Tie material : polyamide

Operating temperature : -40...85°C

Flammability rating : UL94V-2

Manufacturer series : Classic

Information : **more products from this series available on www.tme.eu**

Symbol	Colour	Tie width [mm]	Strength [N]	Length [mm]	Resistance to
TT2.5X100/BK	black	2.5	78	100	UV rays
TT2.5X100/N	natural	2.5	78	100	-
TT2.5X150/BK	black	2.5	78	150	UV rays
TT2.5X150/N	natural	2.5	78	150	-
TT2.5X200/BK	black	2.5	78	200	UV rays
TT2.5X200/N	natural	2.5	78	200	-
TT2.5X250/BK	black	2.5	78	250	UV rays
TT2.5X250/N	natural	2.5	78	250	-
TT3.6X150/BK	black	3.6	176	150	UV rays
TT3.6X150/N	natural	3.6	176	150	-
TT3.6X250/BK	black	3.6	176	250	UV rays
TT3.6X250/N	natural	3.6	176	250	-
TT3.6X370/BK	black	3.6	176	370	UV rays
TT3.6X370/N	natural	3.6	176	370	-
TT4.6X250/BK	black	4.6	215	250	UV rays
TT4.6X250/N	natural	4.6	215	250	-
TT4.6X350/BK	black	4.6	215	350	UV rays
TT4.6X350/N	natural	4.6	215	350	-
TT4.6X400/BK	black	4.6	215	400	UV rays
TT4.6X400/N	natural	4.6	215	400	-
TT4.6X500/BK	black	4.6	215	500	UV rays
TT4.6X500/N	natural	4.6	215	500	-
TT7.6X500/BK	black	7.6	540	500	UV rays
TT7.6X500/N	natural	7.6	540	500	-
TT8.8X650/BK	black	8.8	980	650	UV rays
TT8.8X650/N	natural	8.8	980	650	-
TT8.8X760/BK	black	8.8	980	760	UV rays
TT8.8X760/N	natural	8.8	980	760	-

Cable accessories: t-bolt clamp; MPC INDUSTRIES



Manufacturer : MPC INDUSTRIES

Information : **more products from this series available on www.tme.eu**

Version : industrial

Cable accessories : t-bolt clamp

Features : enhanced durability

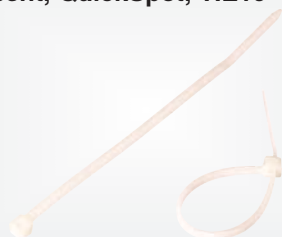
Tie material : chrome steel AISI 430

Manufacturer series : S

Symbol	Standard	Clamping [mm]	Tie width [mm]	Symbol	Standard	Clamping [mm]	Tie width [mm]
MPC-S2017	W2	17...19	18	MPC-S2092	W2	92...97	24
MPC-S2020	W2	20...22	18	MPC-S2104	W2	104...112	24
MPC-S2026	W2	26...28	18	MPC-S4040	W4	40...43	20
MPC-S2032	W2	32...35	20	MPC-S4052	W4	52...55	22
MPC-S2036	W2	36...39	20	MPC-S4056	W4	56...59	22
MPC-S2040	W2	40...43	20	MPC-S4068	W4	68...73	24
MPC-S2052	W2	52...55	22	MPC-S4083	W4	83...88	24
MPC-S2056	W2	56...59	22	MPC-S4086	W4	86...91	24
MPC-S2064	W2	64...67	22	MPC-S4098	W4	98...103	24
MPC-S2074	W2	74...79	24				

Cables accessories

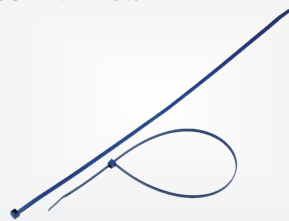
Cable tie; lumiscent; QuickSpot; TIE10



Manufacturer : TIE10
 Cable accessories : cable tie
 Colour : white
 Tie material : polyamide
 Features : lumiscent
 Manufacturer series : QuickSpot

Symbol	Tie width [mm]	Length [mm]	Symbol	Tie width [mm]	Length [mm]
TT2.5X100L/WH	2.5	100	TT4.6X250L/WH	4.6	250
TT2.5X150L/WH	2.5	150	TT4.6X300L/WH	4.6	300
TT2.5X200L/WH	2.5	200	TT4.6X350L/WH	4.6	350
TT2.5X250L/WH	2.5	250	TT4.6X400L/WH	4.6	400
TT3.6X150L/WH	3.6	150	TT4.6X450L/WH	4.6	450
TT3.6X200L/WH	3.6	200	TT4.6X500L/WH	4.6	500
TT3.6X250L/WH	3.6	250	TT7.6X300L/WH	7.6	300
TT3.6X300L/WH	3.6	300	TT7.6X400L/WH	7.6	400
TT3.6X370L/WH	3.6	370	TT7.6X500L/WH	7.6	500
TT4.6X200L/WH	4.6	200			

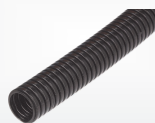
Special cable ties with metal



Manufacturer : HELLERMANN TYTON
 Type of cable accessories : cable tie
 Version : with metal
 Colour : blue
 Application : food industry
 Flammability rating : UL94HB
 Operating temperature : -40...85°C
 Tie material : polyamide

Symbol	Length [mm]	Tie width [mm]	Bundle dia. [mm]	Strength [N]
MCT30R	150	3.5	35	135
MCT50R	200	4.6	50	225
MCT50L	390	4.6	110	225

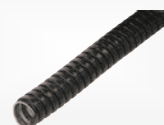
Cable accessories: protective tube; polyamide; ANAMET EUROPE



Manufacturer : ANAMET EUROPE
 Cable accessories : protective tube
 Material : polyamide
 Colour : black
 Operating temperature : -40...120°C
 Flammability rating : UL94HB
 Information : more products from this series available on www.tme.eu
 Manufacturer series : PA6S

Symbol	Conduit size	Int. dia. [mm]	Outside diameter [mm]	Bend. rad. [mm]
AN-8013170	17	16.6	21.2	45
AN-8013050	4.5	5	7.1	10
AN-8013070	7.5	6.7	10	13
AN-8013100	10	9.9	13	20
AN-8013120	12	12.2	15.7	30
AN-8013230	23	23.2	28.9	55
AN-8013290	29	29	34.5	65
AN-801.336.0	36	36	42.4	90
AN-801.348.0	50	47.7	54	100

Cable accessories: protective tube; galvanised steel; ANAMET EUROPE



Manufacturer : ANAMET EUROPE
 Cable accessories : protective tube
 Operating temperature : -20...80°C
 IP rating : IP67
 Colour : black
 Plating material : PVC
 Material : galvanised steel
 Resistance to : mechanical stresses, moisture
 Information : more products from this series available on www.tme.eu

Symbol	Package contents [m]	Internal diameter [mm]	Bend. rad. [mm]	Conduit size
FCC-10-50	50	7	30	10
FCC-12-50	50	10	37	14
FCC-16-10	10	13	45	17
FCC-20-10	10	17	80	21
FCC-25-10	10	21	70	26
FCC-32-10	10	28	95	34
FCC-40-10	10	37	115	45
FCC-50-10	10	48	135	56

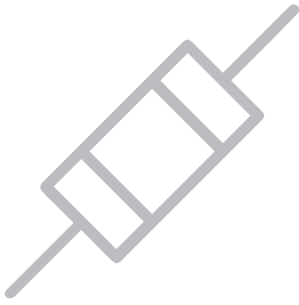
Cable accessories: markers; PVC; PARTEX



Manufacturer : PARTEX
 Qty. in set : 250pcs.
 Cable accessories : markers
 Mechanical mounting : leaded
 Flammability rating : UL94V-0
 Operating temperature : -30...60°C
 Material : PVC
 Kit contents : set digits 0-9 x25
 Marking : 0; 1; 2; 3; 4; 5; 6; 7; 8; 9
 Cable accessories application : cables and wires

Symbol	Length [mm]	Ø _{ext. cable} [mm]	Width [mm]	Height [mm]	Colour
PA-02003PG40.0X	3	1.3...3	3.5	3.6	yellow
PA-02003PGCC.0X	3	1.3...3	3.5	3.6	-
PA-10003PG40.0X	3	2.5...5	4.2	5.5	yellow
PA-10003PGCC.0X	3	2.5...5	4.2	5.5	-
PA-20004PG40.0X	4	4...10	6.6	9.6	yellow

Features (PA-02003PGCC.0X, PA-10003PGCC.0X):
 — internacional colour code



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Heating and wirewound resistors	164
Motor and lighting capacitors	168
EMI/EMC protection	171
Power factor correction	174

8

Passive components

Heating and wirewound resistors

Heatsink encased wire-wound power resistors



Type of resistor : wire-wound
 Tolerance : ±5%
 Operating temperature : -55...250°C
 Kind of resistor : with heatsink
 Features : needs additional heatsink
Symbol : AX100WR-xxx
 Power : 100W
 Power without heatsink : 50W
 Max. operating voltage : 1.9kV
 Body dimensions : 65.5x47.5x26mm

Recommended heatsink : thickness 3mm, 99500mm² surface area
 Mounting holes pitch : 37x35mm
 Number of mounting holes : 4

Symbol : AX200WR-xxx

Power : 200W
 Power without heatsink : 50W
 Max. operating voltage : 1.9kV
 Body dimensions : 90x73x45mm

Recommended heatsink : thickness 3mm, surface 375000mm²
 Mounting holes pitch : 57.2x35+35mm
 Number of mounting holes : 6

Symbol : AX300WR-xxx

Power : 300W
 Power without heatsink : 75W
 Max. operating voltage : 2.5kV
 Body dimensions : 128x73x45mm

Recommended heatsink : thickness 3mm, surface 578000mm²
 Mounting holes pitch : 59x52+52mm
 Number of mounting holes : 6

Symbol	Resist. [Ω]	Temp. coeff. [ppm/°C]	Symbol	Resist. [Ω]	Temp. coeff. [ppm/°C]
AX100WR-0R1	100m	50	AX200WR-0R47	470m	50
AX100WR-0R22	220m	50	AX200WR-1R	1	50
AX100WR-0R47	470m	50	AX200WR-2R2	2.2	50
AX100WR-1R	1	50	AX200WR-6R8	6.8	50
AX100WR-1R5	1.5	50	AX200WR-10R	10	50
AX100WR-2R2	2.2	50	AX200WR-22R	22	50
AX100WR-3R3	3.3	50	AX200WR-47R	47	50
AX100WR-4R7	4.7	50	AX200WR-100R	100	50
AX100WR-6R8	6.8	50	AX200WR-150R	150	30
AX100WR-10R	10	50	AX200WR-220R	220	30
AX100WR-12R4	12.4	50	AX200WR-470R	470	30
AX100WR-15R	15	50	AX200WR-1K	1k	30
AX100WR-22R	22	50	AX300WR-1R	1	50
AX100WR-33R	33	50	AX300WR-4R7	4.7	50
AX100WR-47R	47	50	AX300WR-10R	10	50
AX100WR-68R	68	50	AX300WR-22R	22	50
AX100WR-100R	100	50	AX300WR-47R	47	50
AX100WR-220R	220	30	AX300WR-100R	100	50
AX100WR-470R	470	30	AX300WR-330R	330	30
AX100WR-1K	1k	30	AX300WR-680R	680	30
AX200WR-0R1	100m	50	AX300WR-1K	1k	30

Current prices are available on www.tme.pl

Arcol Thick Film Resistors



Type of resistor : thick film
 Mounting : screw
 Tolerance : ±5%
 Operating temperature : -55...155°C
 Temp. coeff. : 100ppm/°C
 Features : needs additional heatsink
 Number of mounting holes : 2

Symbol : FPA100-xxxJ

U_{oper. max} : 1kV AC
 Body dimensions : 38x25x9mm
 Leads : M4 screws

Mounting holes pitch : 30.3mm
Symbol : FPA250-xxxJ
 U_{oper. max} : 5kV AC
 Body dimensions : 67x60x21.5mm
 Leads : M5 screws

Mounting holes pitch : 57mm

Symbol	Power [W]	Resist. [Ω]	Symbol	Power [W]	Resist. [Ω]
FPA100-1RJ	100	1	FPA100-1K6J	100	1.6k
FPA100-2R2J	100	2.2	FPA100-2K2J	100	2.2k
FPA100-3R3J	100	3.3	FPA100-4K7J	100	4.7k
FPA100-4R7J	100	4.7	FPA100-10KJ	100	10k
FPA100-6R8J	100	6.8	FPA250-1RJ	250	1
FPA100-10RJ	100	10	FPA250-2R2J	250	2.2
FPA100-22RJ	100	22	FPA250-4R7J	250	4.7
FPA100-33RJ	100	33	FPA250-10RJ	250	10
FPA100-47RJ	100	47	FPA250-47RJ	250	47
FPA100-68RJ	100	68	FPA250-220RJ	250	220
FPA100-100RJ	100	100	FPA250-680RJ	250	680
FPA100-220RJ	100	220	FPA250-1KJ	250	1k
FPA100-680RJ	100	680	FPA250-10KJ	250	10k
FPA100-1KJ	100	1k	FPA250-47KJ	250	47k
FPA100-1K5J	100	1.5k	FPA250-100KJ	250	100k

Current prices are available on www.tme.pl

Wire-wound Ceramic Cased Resistors 30 W, SR Passives



Type of resistor : wire-wound
 Mounting : THT
 Power : 30W
 Tolerance : ±5%
 Body dimensions : 19x17x75mm
 Leads dimensions : Ø0.8x35mm
 Kind of resistor : cement

Symbol	Resist. [Ω]	Symbol	Resist. [Ω]
CRL30W-0R1	100m	CRL30W-22R	22
CRL30W-0R15	150m	CRL30W-33R	33
CRL30W-0R33	330m	CRL30W-47R	47
CRL30W-0R47	470m	CRL30W-68R	68
CRL30W-1R	1	CRL30W-100R	100
CRL30W-1R5	1.5	CRL30W-150R	150
CRL30W-2R2	2.2	CRL30W-220R	220
CRL30W-3R3	3.3	CRL30W-330R	330
CRL30W-4R7	4.7	CRL30W-470R	470
CRL30W-6R8	6.8	CRL30W-680R	680
CRL30W-10R	10	CRL30W-1K	1k
CRL30W-15R	15		

Resistor: wire-wound; ±5%; ROYALOHM



Type of resistor : wire-wound
 Tolerance : ±5%
 Leads : solder lugs

Symbol	Power [W]	Body dimensions [mm]	Resist. [Ω]	Temp. coeff. [ppm/°C]	No. of mount. holes
QL25-4R7	25	Ø22x60	4.7	400	2
QL25-10R	25	Ø22x60	10	400	2
QL25-22R	25	Ø22x60	22	300	2
QL25-47R	25	Ø22x60	47	300	2
QL25-100R	25	Ø22x60	100	300	2
QL25-1K	25	Ø22x60	1k	300	2
QL50-10R	50	Ø31x75	10	400	2
QL50-22R	50	Ø31x75	22	300	2
QL50-47R	50	Ø31x75	47	300	2
QL50-100R	50	Ø31x75	100	300	2
QL50-1K	50	Ø31x75	1k	300	2
QL50-3K6	50	Ø31x75	3.6k	300	2
QL80-4R7	80	Ø31x115	4.7	400	2
QL80-10R	80	Ø31x115	10	400	2
QL80-47R	80	Ø31x115	47	300	2
QL80-100R	80	Ø31x115	100	300	2
QL80-470R	80	Ø31x115	470	300	2
QL80-1K	80	Ø31x115	1k	300	2
QL80-4K7	80	Ø31x115	4.7k	300	2

cont. on the next page

Resistor: wire-wound; ±5%; ROYALOHM (cont.)

QL50-47R	50	Ø31x75	47	300	2
QL50-100R	50	Ø31x75	100	300	2
QL100-1R	100	Ø31x140	1	400	2
QL100-2R2	100	Ø31x140	2.2	400	2
QL100-4R7	100	Ø31x140	4.7	400	2
QL100-10R	100	Ø31x140	10	400	2
QL100-22R	100	Ø31x140	22	300	2
QL100-47R	100	Ø31x140	47	300	2
QL100-100R	100	Ø31x140	100	300	2
QL100-1K	100	Ø31x140	1k	300	2
QL200-1R	200	Ø31x254	1	400	2
QL200-4R7	200	Ø31x254	4.7	400	2
QL200-10R	200	Ø31x254	10	400	2
QL200-22R	200	Ø31x254	22	300	2
QL200-47R	200	Ø31x254	47	300	2
QL200-100R	200	Ø31x254	100	300	2

Kind of resistor : with heatsink
 Number of mounting holes : 2
 Application : breaking resistor
 Lead length : 255mm

Symbol	Power [W]	Body dimensions [mm]	Resist. [Ω]	Mount. holes pitch [mm]
AX600WR-1R	600	30x60x335	1	270
AX600WR-4R7	600	30x60x335	4.7	270
AX600WR-10R	600	30x60x335	10	270
AX600WR-22R	600	30x60x335	22	270
AX600WR-47R	600	30x60x335	47	270
AX600WR-100R	600	30x60x335	100	270
AX1000WR-1R	1k	50x100x400	1	385
AX1000WR-10R	1k	50x100x400	10	385
AX1000WR-100R	1k	50x100x400	100	385
AX1000WR-1K	1k	50x100x400	1k	385

Resistor: wire-wound; with heatsink; TE Connectivity



Manufacturer : TE Connectivity
 Type of resistor : wire-wound
 Features : robust mechanical structure; needs additional heatsink

Symbol	Resist. [Ω]	Tolerance [%]	Power [W]	Symbol	Resist. [Ω]	Tolerance [%]	Power [W]
AX10WR-0R1	100m	±5	16	AX25WR-220R	220	±5	25
AX10WR-0R22	220m	±5	16	AX25WR-330R	330	±5	25
AX10WR-0R33	330m	±5	16	AX25WR-470R	470	±5	25
AX10WR-0R47	470m	±5	16	AX25WR-1K	1k	±5	25
AX10WR-1R	1	±5	16	AX25WR-1K5	1.5k	±5	25
AX10WR-1R5	1.5	±5	16	AX25WR-2K2	2.2k	±5	25
AX10WR-2R2	2.2	±5	16	AX25WR-4K7	4.7k	±5	25
AX10WR-3R3	3.3	±5	16	AX25WR-10K	10k	±5	25
AX10WR-4R7	4.7	±5	16	AX50WR-0R1	100m	±5	50
AX10WR-6R8	6.8	±5	16	AX50WR-0R15	150m	±5	50
AX10WR-10R	10	±5	16	AX50WR-0R22	220m	±5	50
AX10WR-22R	22	±5	16	AX50WR-0R33	330m	±5	50
AX10WR-33R	33	±5	16	AX50WR-0R47	470m	±5	50
AX10WR-47R	47	±5	16	AX50WR-1R	1	±5	50
AX10WR-68R	68	±5	16	AX50WR-1R5	1.5	±5	50
AX10WR-100R	100	±5	16	AX50WR-2R2	2.2	±5	50
AX10WR-150R	150	±5	16	AX50WR-3R3	3.3	±5	50
AX10WR-220R	220	±5	16	AX50WR-4R7	4.7	±5	50
AX10WR-330R	330	±5	16	AX50WR-6R8	6.8	±5	50
AX10WR-470R	470	±5	16	AX50WR-10R	10	±5	50
AX10WR-680R	680	±5	16	AX50WR-15R	15	±5	50
AX10WR-1K	1k	±5	16	AX50WR-22R	22	±5	50
AX10WR-2K2	2.2k	±5	16	AX50WR-33R	33	±5	50
AX25WR-0R1	100m	±5	25	AX50WR-47R	47	±5	50
AX25WR-0R15	150m	±5	25	AX50WR-68R	68	±5	50
AX25WR-0R22	220m	±5	25	AX50WR-100R	100	±5	50
AX25WR-0R33	330m	±5	25	AX50WR-150R	150	±5	50
AX25WR-0R47	470m	±5	25	AX50WR-220R	220	±5	50
AX25WR-0R68	680m	±5	25	AX50WR-330R	330	±5	50
AX25WR-1R	1	±5	25	AX50WR-470R	470	±5	50
AX25WR-1R5	1.5	±5	25	AX50WR-680R	680	±5	50
AX25WR-2R2	2.2	±5	25	AX50WR-1K	1k	±5	50
AX25WR-3R3	3.3	±5	25	AX50WR-1K5	1.5k	±5	50
AX25WR-4R7	4.7	±5	25	AX50WR-2K2	2.2k	±5	50
AX25WR-6R8	6.8	±5	25	AX50WR-4K7	4.7k	±5	50
AX25WR-10R	10	±5	25	AX50WR-5K6	5.6k	±5	50
AX25WR-15R	15	±5	25	AX50WR-8K2	8.2k	±5	50
AX25WR-22R	22	±5	25	AX50WR-10K	10k	±5	50
AX25WR-33R	33	±5	25	AX50WR-22K	22k	±5	50
AX25WR-47R	47	±5	25	AX50WR-15K	15k	±5	50
AX25WR-68R	68	±5	25	AX50WR-12R	12	±5	50
AX25WR-100R	100	±5	25	AX50WR-0R68	680m	±5	50
AX25WR-150R	150	±5	25	AX25WR-R01	10m	±5	25

Resistor: wire-wound; with heatsink; ARCOL



Type of resistor : wire-wound
 Mounting : screw
 Kind of resistor : with heatsink
 Features : needs additional heatsink

Symbol	Resist. [Ω]	Tol. [%]	Power [W]	Symbol	Resist. [Ω]	Tol. [%]	Power [W]
HS100-0R47J	470m	±5	100	HS15-68RJ	68	±5	15
HS100-100RJ	100	±5	100	HS15-6R8J	6.8	±5	15
HS100-10RJ	10	±5	100	HS200-100RJ	100	±5	200
HS100-150RJ	150	±5	100	HS200-10RJ	10	±5	200
HS100-1KJ	1k	±5	100	HS200-1RJ	1	±5	200
HS100-1R5J	1.5	±5	100	HS200-220RJ	220	±5	200
HS100-1RJ	1	±5	100	HS200-22RJ	22	±5	200
HS100-22RJ	22	±5	100	HS200-2R2J	2.2	±5	200
HS100-2K2J	2.2k	±5	100	HS200-3R3J	3.3	±5	200
HS100-2R2J	2.2	±5	100	HS200-47RJ	47	±5	200
HS100-470RJ	470	±5	100	HS25-0R1J	100m	±5	25
HS100-47RJ	47	±5	100	HS25-100RJ	100	±5	25
HS100-4R7J	4.7	±5	100	HS25-10KJ	10k	±5	25
HS100-680RJ	680	±5	100	HS25-10RJ	10	±5	25
HS100M-100RJ	100	±5	100	HS25-150RJ	150	±5	25
HS100M-150RJ	150	±5	100	HS25-15RJ	15	±5	25
HS10-100RJ	100	±5	10	HS25-1K5J	1.5k	±5	25
HS10-10KJ	10k	±5	10	HS25-1KJ	1k	±5	25
HS10-10RJ	10	±5	10	HS25-1R5J	1.5	±5	25
HS10-150RJ	150	±5	10	HS25-1RJ	1	±5	25
HS10-15RJ	15	±5	10	HS25-220RJ	220	±5	25
HS10-1KJ	1k	±5	10	HS25-22RJ	22	±5	25
HS10-1R5J	1.5	±5	10	HS25-33RJ	33	±5	25
HS10-1RJ	1	±5	10	HS25-3K3J	3.3k	±5	25
HS10-220RJ	220	±5	10	HS25-3R3J	3.3	±5	25
HS10-22RJ	22	±5	10	HS25-3R3J	3.3	±5	25
HS10-330RJ	330	±5	10	HS25-470RJ	470	±5	25
HS10-33RJ	33	±5	10	HS25-47RJ	47	±5	25
HS10-3R3J	3.3	±5	10	HS25-4K7J	4.7k	±5	25
HS10-470RJ	470	±5	10	HS25-4R7J	4.7	±5	25
HS10-47RJ	47	±5	10	HS25-680RJ	680	±5	25
HS10-4K7J	4.7k	±5	10	HS25-68RJ	68	±5	25
HS10-4R7J	4.7	±5	10	HS25-6R8J	6.8	±5	25
HS10-68RJ	68	±5	10	HS300-10RJ	10	±5	300
HS150-100RJ	100	±5	150	HS300-1R5J	1.5	±5	300
HS150-10RJ	10	±5	150	HS300-1RJ	1	±5	300
HS150-150RJ	150	±5	150	HS300-2R2J	2.2	±5	300
HS150-1KJ	1k	±5	150	HS300-30RJ	30	±5	300
HS150-1RJ	1	±5	150	HS50-0R15J	150m	±5	50
HS150-22RJ	22	±5	150	HS50-0R1J	100m	±5	50
HS150-2R2J	2.2	±5	150	HS50-0R68J	680m	±5	50
HS150-330RJ	330	±5	150	HS50-100RJ	100	±5	50
HS150-33RJ	33	±5	150	HS50-10KJ	10k	±5	50
HS150-3K3J	3.3k	±5	150	HS50-10RJ	10	±5	50
HS150-3R3J	3.3	±5	150	HS50-150RJ	150	±5	50
HS150-470RJ	470	±5	150	HS50-15KJ	15k	±5	50
HS150-47RJ	47	±5	150	HS50-15RJ	15	±5	50
HS150-4R7J	4.7	±5	150	HS50-1K5J	1.5k	±5	50
HS150-680RJ	680	±5	150	HS50-10RJ	10	±5	50
HS15-0R1J	100m	±5	15	HS50-1KJ	1k	±5	50
HS15-100RJ	100	±5	15	HS50-1R5J	1.5	±5	50
HS15-10RJ	10	±5	15	HS50-1RJ	1	±5	50
HS15-150RJ	150	±5	15	HS50-1K5J	1.5k	±5	50
HS15-15RJ	15	±5	15	HS50-220RJ	220	±5	50
HS15-1K5J	1.5k	±5	15	HS50-22KJ	22k	±5	50
HS15-1KJ	1k	±5	15	HS50-22RJ	22	±5	50
HS15-220RJ	220	±5	15	HS50-2R2J	2.2k	±5	50
HS15-22RJ	22	±5	15				

Resistor: wire-wound; with heatsink; ROYALOHM



Type of resistor : wire-wound
 Tolerance : ±5%
 Leads : cables
 Temp. coeff. : 350ppm/°C

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Resistor: wire-wound; with heatsink; ARCOL (cont.)

Symbol	Resist. [Ω]	Tol. [%]	Power [W]	Symbol	Resist. [Ω]	Tol. [%]	Power [W]
HS15-2K2J	2.2k	±5	15	HS50-2R2J	2.2	±5	50
HS15-2R2J	2.2	±5	15	HS50-330RJ	330	±5	50
HS15-2R7J	2.7	±5	15	HS50-33RJ	33	±5	50
HS15-2RJ	2	±5	15	HS50-3K3J	3.3k	±5	50
HS15-33RJ	33	±5	15	HS50-3R3J	3.3	±5	50
HS15-3K3J	3.3k	±5	15	HS50-470RJ	470	±5	50
HS15-3R3J	3.3	±5	15	HS50-47RJ	47	±5	50
HS15-470RJ	470	±5	15	HS50-4K7J	4.7k	±5	50
HS15-47RJ	47	±5	15	HS50-4R7J	4.7	±5	50
HS15-4K7J	4.7k	±5	15	HS50-68RJ	68	±5	50
HS15-4R7J	4.7	±5	15	HS50-6R8J	6.8	±5	50
HS15-680RJ	680	±5	15				

Symbol : HS100M-100RJ, HS100M-150RJ
Leads dimensions : 6.3mm

Resistor: wire-wound; with heatsink; SR PASSIVES



SR PASSIVES

Type of resistor : wire-wound
Kind of resistor : with heatsink

Symbol	Resist. [Ω]	Tolerance [%]	Power [W]	Symbol	Resist. [Ω]	Tolerance [%]	Power [W]
AHP5W-1RJ	1	±5	5	AHP50W-22RJ	22	±5	50
AHP5W-1R5J	1.5	±5	5	AHP50W-33RJ	33	±5	50
AHP5W-2R2J	2.2	±5	5	AHP50W-47RJ	47	±5	50
AHP5W-3R3J	3.3	±5	5	AHP50W-68RJ	68	±5	50
AHP5W-4R7J	4.7	±5	5	AHP50W-100RJ	100	±5	50
AHP5W-6R8J	6.8	±5	5	AHP50W-150RJ	150	±5	50
AHP5W-10RJ	10	±5	5	AHP50W-220RJ	220	±5	50
AHP5W-15RJ	15	±5	5	AHP50W-330RJ	330	±5	50
AHP5W-22RJ	22	±5	5	AHP50W-470RJ	470	±5	50
AHP5W-33RJ	33	±5	5	AHP50W-680RJ	680	±5	50
AHP5W-39RJ	39	±5	5	AHP50W-1KJ	1k	±5	50
AHP5W-47RJ	47	±5	5	AHP50W-1K5J	1.5k	±5	50
AHP5W-68RJ	68	±5	5	AHP50W-2K2J	2.2k	±5	50
AHP5W-100RJ	100	±5	5	AHP50W-3K3J	3.3k	±5	50
AHP5W-150RJ	150	±5	5	AHP50W-4K7J	4.7k	±5	50
AHP5W-220RJ	220	±5	5	AHP50W-6K8J	6.8k	±5	50
AHP5W-330RJ	330	±5	5	AHP50W-10KJ	10k	±5	50
AHP5W-470RJ	470	±5	5	AHP85W-1RJ	1	±5	85
AHP5W-680RJ	680	±5	5	AHP85W-1R5J	1.5	±5	85
AHP5W-1KJ	1k	±5	5	AHP85W-2R2J	2.2	±5	85
AHP5W-1K5J	1.5k	±5	5	AHP85W-3R3J	3.3	±5	85
AHP10W-1RJ	1	±5	10	AHP85W-4R7J	4.7	±5	85
AHP10W-1R5J	1.5	±5	10	AHP85W-6R8J	6.8	±5	85
AHP10W-2R2J	2.2	±5	10	AHP85W-10RJ	10	±5	85
AHP10W-3R3J	3.3	±5	10	AHP85W-15RJ	15	±5	85
AHP10W-4R7J	4.7	±5	10	AHP85W-22RJ	22	±5	85
AHP10W-6R8J	6.8	±5	10	AHP85W-33RJ	33	±5	85
AHP10W-10RJ	10	±5	10	AHP85W-47RJ	47	±5	85
AHP10W-15RJ	15	±5	10	AHP85W-68RJ	68	±5	85
AHP10W-22RJ	22	±5	10	AHP85W-100RJ	100	±5	85
AHP10W-33RJ	33	±5	10	AHP85W-150RJ	150	±5	85
AHP10W-47RJ	47	±5	10	AHP85W-220RJ	220	±5	85
AHP10W-68RJ	68	±5	10	AHP100W-1RJ	1	±5	100
AHP10W-100RJ	100	±5	10	AHP100W-1R5J	1.5	±5	100
AHP10W-150RJ	150	±5	10	AHP100W-2R2J	2.2	±5	100
AHP10W-220RJ	220	±5	10	AHP100W-3R3J	3.3	±5	100
AHP10W-330RJ	330	±5	10	AHP100W-4R7J	4.7	±5	100
AHP10W-470RJ	470	±5	10	AHP100W-6R8J	6.8	±5	100
AHP10W-680RJ	680	±5	10	AHP100W-10RF	10	±1	100
AHP10W-1KJ	1k	±5	10	AHP100W-10RJ	10	±5	100
AHP10W-1K5J	1.5k	±5	10	AHP100W-15RJ	15	±5	100
AHP25W-1RJ	1	±5	25	AHP100W-22RJ	22	±5	100
AHP25W-1R5J	1.5	±5	25	AHP100W-33RJ	33	±5	100
AHP25W-2R2J	2.2	±5	25	AHP100W-47RJ	47	±5	100
AHP25W-3R3J	3.3	±5	25	AHP100W-68RJ	68	±5	100
AHP25W-4R7J	4.7	±5	25	AHP100W-100RJ	100	±5	100
AHP25W-6R8J	6.8	±5	25	AHP100W-150RJ	150	±5	100
AHP25W-8RJ	8	±5	25	AHP100W-220RJ	220	±5	100
AHP25W-10RF	10	±1	25	AHP250W-1RF	1	±1	250
AHP25W-10RJ	10	±5	25	AHP250W-1R5F	1.5	±1	250
AHP25W-15RJ	15	±5	25	AHP250W-2RF	2	±1	250
AHP25W-22RJ	22	±5	25	AHP250W-2R2F	2.2	±1	250
AHP25W-33RJ	33	±5	25	AHP250W-3R3F	3.3	±1	250
AHP25W-47RJ	47	±5	25	AHP250W-4RF	4	±1	250
AHP25W-68RJ	68	±5	25	AHP250W-4R7F	4.7	±1	250
AHP25W-100RF	100	±1	25	AHP250W-5RF	5	±1	250
AHP25W-100RJ	100	±5	25	AHP250W-15RF	15	±1	250
AHP25W-150RJ	150	±5	25	AHP250W-20RF	20	±1	250

Symbol	Resist. [Ω]	Tolerance [%]	Power [W]	Symbol	Resist. [Ω]	Tolerance [%]	Power [W]
AHP25W-220RF	220	±1	25	AHP250W-22RF	22	±1	250
AHP25W-220RJ	220	±5	25	AHP250W-25RF	25	±1	250
AHP25W-330RJ	330	±5	25	AHP250W-27RF	27	±1	250
AHP25W-470RJ	470	±5	25	AHP250W-33RF	33	±1	250
AHP25W-680RJ	680	±5	25	AHP250W-47RF	47	±1	250
AHP25W-1KJ	1k	±5	25	AHP250W-50RF	50	±1	250
AHP25W-1K5J	1.5k	±5	25	AHP250W-56RF	56	±1	250
AHP25W-2K2F	2.2k	±1	25	AHP250W-150RF	150	±1	250
AHP25W-2K2J	2.2k	±5	25	AHP250W-200RF	200	±1	250
AHP25W-3K3J	3.3k	±5	25	AHP250W-220RF	220	±1	250
AHP25W-4K7J	4.7k	±5	25	AHP250W-250RF	250	±1	250
AHP25W-6K8J	6.8k	±5	25	AHP250W-330RF	330	±1	250
AHP25W-10KF	10k	±1	25	AHP250W-470RF	470	±1	250
AHP25W-10KJ	10k	±5	25	AHP250W-500RF	500	±1	250
AHP50W-1RJ	1	±5	50	AHP250W-680RF	680	±1	250
AHP50W-1R5J	1.5	±5	50	AHP250W-1K5F	1.5k	±1	250
AHP50W-2R2J	2.2	±5	50	AHP250W-2KF	2k	±1	250
AHP50W-3R3J	3.3	±5	50	AHP250W-2K2F	2.2k	±1	250
AHP50W-4R7J	4.7	±5	50	AHP250W-3K3F	3.3k	±1	250
AHP50W-6R8J	6.8	±5	50	AHP250W-4K7F	4.7k	±1	250
AHP50W-10RJ	10	±5	50	AHP250W-5KF	5k	±1	250
AHP50W-15RJ	15	±5	50	AHP250W-10KF	10k	±1	250

Leads:
— for soldering (AHP10W-xxxJ, AHP25W-xxx, AHP50W-xxxJ, AHP85W-xxxJ)
— axial (AHP5W-xxxJ)
— M4 screws (AHP100W-xxx)
— M8 screws (AHP250W-xxxF)

Resistor: wire-wound; breaking resistor; SR PASSIVES



SR PASSIVES

Type of resistor : wire-wound
Kind of resistor : with heatsink
Temp. coeff. : 200ppm/°C
Application : breaking resistor

Leads:
— cables

Symbol	R [Ω]	Tol. [%]	P [W]	Body dim. [mm]	No. of mount. holes	Mount. holes pitch [mm]
AL200W-1R	1	±5	200	165x60x30	2	150
AL200W-2R2	2.2	±5	200	165x60x30	2	150
AL200W-3R9	3.9	±5	200	165x60x30	2	150
AL200W-4R7	4.7	±5	200	165x60x30	2	150
AL200W-10R	10	±5	200	165x60x30	2	150
AL200W-22R	22	±5	200	165x60x30	2	150
AL200W-47R	47	±5	200	165x60x30	2	150
AL200W-60R	60	±5	200	165x60x30	2	150
AL200W-80R	80	±5	200	165x60x30	2	150
AL200W-100R	100	±5	200	165x60x30	2	150
AL200W-220R	220	±5	200	165x60x30	2	150
AL200W-470R	470	±5	200	165x60x30	2	150
AL300W-1R	1	±5	300	215x60x30	2	200
AL300W-2R2	2.2	±5	300	215x60x30	2	200
AL300W-3R9	3.9	±5	300	215x60x30	2	200
AL300W-4R7	4.7	±5	300	215x60x30	2	200
AL300W-10R	10	±5	300	215x60x30	2	200
AL300W-22R	22	±5	300	215x60x30	2	200
AL300W-47R	47	±5	300	215x60x30	2	200
AL300W-60R	60	±5	300	215x60x30	2	200
AL300W-100R	100	±5	300	215x60x30	2	200
AL300W-220R	220	±5	300	215x60x30	2	200
AL300W-470R	470	±5	300	215x60x30	2	200
AL500W-1R	1	±5	500	335x60x30	2	320
AL500W-2R2	2.2	±5	500	335x60x30	2	320
AL500W-3R9	3.9	±5	500	335x60x30	2	320
AL500W-4R7	4.7	±5	500	335x60x30	2	320
AL500W-10R	10	±5	500	335x60x30	2	320
AL500W-22R	22	±5	500	335x60x30	2	320
AL500W-30R	30	±5	500	335x60x30	2	320
AL500W-40R	40	±5	500	335x60x30	2	320
AL500W-47R	47	±5	500	335x60x30	2	320
AL500W-100R	100	±5	500	335x60x30	2	320
AL500W-220R	220	±5	500	335x60x30	2	320
AL500W-470R	470	±5	500	335x60x30	2	320
AL800W-1R	1	±5	800	400x80x40	2	385
AL800W-2R2	2.2	±5	800	400x80x40	2	385
AL800W-3R9	3.9	±5	800	400x80x40	2	385
AL800W-10R	10	±5	800	400x80x40	2	385
AL800W-22R	22	±5	800	400x80x40	2	385
AL800W-30R	30	±5	800	400x80x40	2	385
AL800W-47R	47	±5	800	400x80x40	2	385
AL800W-100R	100	±5	800	400x80x40	2	385
AL800W-220R	220	±5	800	400x80x40	2	385
AL800W-470R	470	±5	800	400x80x40	2	385
AL1000W-1R	1	±5	1000	400x100x50	4	380x80
AL1000W-2R2	2.2	±5	1000	400x100x50	4	380x80
AL1000W-3R9	3.9	±5	1000	400x100x50	4	380x80

cont. on the next page

Resistor: wire-wound; breaking resistor; SR PASSIVES (cont.)

Symbol	R [Ω]	Tol. [%]	P [W]	Body dim. [mm]	No. of mount. holes	Mount. holes pitch [mm]
AL1000W-4R7	4.7	±5	1000	400x100x50	4	380x80
AL1000W-10R	10	±5	1000	400x100x50	4	380x80
AL1000W-22R	22	±5	1000	400x100x50	4	380x80
AL1000W-47R	47	±5	1000	400x100x50	4	380x80
AL1000W-100R	100	±5	1000	400x100x50	4	380x80
AL1000W-220R	220	±5	1000	400x100x50	4	380x80

Lead length:

- 400mm (AL200W-xxx, AL300W-xxx, AL500W-xxx)
- 500mm (AL800W-xxx, AL1000W-xxx)

Mounting : screw
 Type of resistor : power
 Tolerance : ±5%
 Leads : for soldering
 Manufacturer series : LPR

Symbol	R [Ω]	P [W]	Body dim. [mm]	Symbol	R [Ω]	P [W]	Body dim. [mm]
LPR100-10R-J	10	100	100x75x5.7	LPR50-68R-J	68	50	50x75x5.7
LPR50-100R-J	100	50	50x75x5.7	LPR50-6R-J	6	50	50x75x5.7
LPR50-10R-J	10	50	50x75x5.7	LPR50-68R-J	6.8	50	50x75x5.7
LPR50-120R-J	120	50	50x75x5.7	LPR50-820R-J	820	50	50x75x5.7
LPR50-12R-J	12	50	50x75x5.7	LPR50-82R-J	82	50	50x75x5.7
LPR50-13R5-J	13.5	50	50x75x5.7	LPR50-8R-J	8	50	50x75x5.7
LPR50-150R-J	150	50	50x75x5.7	LPR50-8R2-J	8.2	50	50x75x5.7
LPR50-15R-J	15	50	50x75x5.7	LPR100-100R-J	100	100	100x75x5.7
LPR50-180R-J	180	50	50x75x5.7	LPR100-110R-J	110	100	100x75x5.7
LPR50-18R-J	18	50	50x75x5.7	LPR100-120R-J	120	100	100x75x5.7
LPR50-1K-J	1k	50	50x75x5.7	LPR100-12R-J	12	100	100x75x5.7
LPR50-20R-J	20	50	50x75x5.7	LPR100-150R-J	150	100	100x75x5.7
LPR50-220R-J	220	50	50x75x5.7	LPR100-15R-J	15	100	100x75x5.7
LPR50-22R-J	22	50	50x75x5.7	LPR100-18R-J	18	100	100x75x5.7
LPR50-24R-J	24	50	50x75x5.7	LPR100-1K-J	1k	100	100x75x5.7
LPR50-25R-J	25	50	50x75x5.7	LPR100-200R-J	200	100	100x75x5.7
LPR50-270R-J	270	50	50x75x5.7	LPR100-20R-J	20	100	100x75x5.7
LPR50-27R-J	27	50	50x75x5.7	LPR100-220R-J	220	100	100x75x5.7
LPR50-30R-J	30	50	50x75x5.7	LPR100-22R-J	22	100	100x75x5.7
LPR50-330R-J	330	50	50x75x5.7	LPR100-25R-J	25	100	100x75x5.7
LPR50-33R-J	33	50	50x75x5.7	LPR100-270R-J	270	100	100x75x5.7
LPR50-39R-J	39	50	50x75x5.7	LPR100-300R-J	300	100	100x75x5.7
LPR50-3R3-J	3.3	50	50x75x5.7	LPR100-30R-J	30	100	100x75x5.7
LPR50-3R9-J	3.9	50	50x75x5.7	LPR100-330R-J	330	100	100x75x5.7
LPR50-40R-J	40	50	50x75x5.7	LPR100-33R-J	33	100	100x75x5.7
LPR50-430R-J	430	50	50x75x5.7	LPR100-3R3-J	3.3	100	100x75x5.7
LPR50-470R-J	470	50	50x75x5.7	LPR100-40R-J	40	100	100x75x5.7
LPR50-47R-J	47	50	50x75x5.7	LPR100-470R-J	470	100	100x75x5.7
LPR50-4R-J	4	50	50x75x5.7	LPR100-47R-J	47	100	100x75x5.7
LPR50-4R7-J	4.7	50	50x75x5.7	LPR100-4R-J	4	100	100x75x5.7
LPR50-500R-J	500	50	50x75x5.7	LPR100-4R7-J	4.7	100	100x75x5.7
LPR50-50R-J	50	50	50x75x5.7	LPR100-50R-J	50	100	100x75x5.7
LPR50-560R-J	560	50	50x75x5.7	LPR100-5R-J	5	100	100x75x5.7
LPR50-56R-J	56	50	50x75x5.7	LPR100-680R-J	680	100	100x75x5.7
LPR50-5R-J	5	50	50x75x5.7	LPR100-68R-J	68	100	100x75x5.7
LPR50-5R6-J	5.6	50	50x75x5.7	LPR100-68R-J	6.8	100	100x75x5.7
LPR50-680R-J	680	50	50x75x5.7	LPR100-8R-J	8	100	100x75x5.7

Resistor: thick film; RTS; TELPOD



Manufacturer : TELPOD
 Type of resistor : thick film
 Mounting : screw
 Temp. coeff. : 100ppm/°C
 Features : needs additional heatsink
 Insulation voltage : 2.5kV
 Number of mounting holes : 2
 Manufacturer series : RTS
 Body dim.:

- 38x25x2mm (RTS-01-100-xxx)
- 67x60x2mm (RTS-02-300-xxx)

Symbol	R [Ω]	Tol. [%]	Power [W]	Symbol	R [Ω]	Tol. [%]	Power [W]
RTS-02-300-100R-1	100	-	300	RTS-01-100-1K5	1.5k	±5	100
RTS-01-100-1R	1	±5	100	RTS-01-100-1K6	1.6k	±5	100
RTS-01-100-2R2	2.2	±5	100	RTS-01-100-4K7	4.7k	±5	100
RTS-01-100-6R8	6.8	±5	100	RTS-01-100-5K-1	5k	±5	100
RTS-01-100-10R	10	±5	100	RTS-01-100-10K	10k	±5	100
RTS-01-100-15R	15	±5	100	RTS-01-100-15R	15	±5	300
RTS-01-100-33R	33	±5	100	RTS-02-300-4R7	4.7	±5	300
RTS-01-100-47R	47	±5	100	RTS-02-300-15R	15	±5	300
RTS-01-100-68R	68	±5	100	RTS-02-300-22R	22	±5	300
RTS-01-100-100R	100	±5	100	RTS-02-300-680R	680	±5	300
RTS-01-100-220R	220	±5	100	RTS-02-300-2K2	2.2k	±5	300
RTS-01-100-470R	470	±5	100	RTS-02-300-4K7	4.7k	±5	300
RTS-01-100-680R	680	±5	100	RTS-02-300-10K	10k	±5	300
RTS-01-100-1K2-1	1.2k	±5	100	RTS-02-300-100K	100k	±5	300

Resistor: thick film; heating; TELPOD



Manufacturer : TELPOD
 Type of resistor : thick film
 Mounting : glued
 Leads : soldering pads
 Kind of resistor : heating
 Body material : aluminium oxide

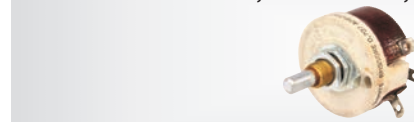
Symbol	Power [W]	Max. operating voltage [V]	Surface temperature [°C]	Body dimensions [mm]
GBR618-12-10-2	10	12	300	12.7x12.7x1
GBR618-12-5-2	5	12	300	12.7x12.7x1
GBR618-3-10-2	10	3	300	12.7x12.7x1
GBR618-3-20-2	20	3	300	12.7x12.7x1
GBR618-3-5-2	5	3	300	12.7x12.7x1
GBR618-9-20-2	20	9	300	12.7x12.7x1
GBR618-9-5-2	5	9	300	12.7x12.7x1
GBR619-12-20-2	20	12	300	76.2x9.53x1
GBR619-230-20-2	20	230	300	76.2x9.53x1
GBR619-230-60-2	60	230	300	76.2x9.53x1
GBR619-230-80-2	80	230	300	76.2x9.53x1
GBR619-24-20-2	20	24	300	76.2x9.53x1

Resistor: power; LPR; ARCOL



Manufacturer : ARCOL

Potentiometer: shaft; wirewound; OHMITE



Manufacturer : OHMITE
 Type of potentiometer : shaft
 Track mat. : wirewound
 Characteristics : linear

Symbol	Resist. [Ω]	Power [W]	Shaft length [mm]	Shaft diameter [mm]	Body dimensions [mm]
RES100E	100	12.5	9.53	3.18	Ø22.2x17.5
RES10RE	10	12.5	9.53	3.18	Ø22.2x17.5
RES1K0E	1k	12.5	9.53	3.18	Ø22.2x17.5
RHL100E	100	25	3.17	6.35	Ø39.6x34.9
RHL1K5E	1.5k	25	3.17	6.35	Ø39.6x34.9
RHL500E	500	25	3.17	6.35	Ø39.6x34.9
RHL5K0E	5k	25	3.17	6.35	Ø39.6x34.9
RHS100E	100	25	12.7	6.35	Ø39.6x34.9
RHS10KE	10k	25	12.7	6.35	Ø39.6x34.9
RHS10RE	10	25	12.7	6.35	Ø39.6x34.9
RHS15RE	15	25	12.7	6.35	Ø39.6x34.9
RHS1K0E	1k	25	12.7	6.35	Ø39.6x34.9
RHS25RE	25	25	12.7	6.35	Ø39.6x34.9
RHS3K5E	3.5k	25	12.7	6.35	Ø39.6x34.9
RHS75RE	75	25	12.7	6.35	Ø39.6x34.9
RJS10KE	10k	50	12.7	6.35	Ø58.7x35
RJS1K0E	1k	50	12.7	6.35	Ø58.7x35
RJS22RE	22	50	12.7	6.35	Ø58.7x35
RJS2R0E	2	50	12.7	6.35	Ø58.7x35
RJS500E	500	50	12.7	6.35	Ø58.7x35
RJS50RE	50	50	12.7	6.35	Ø58.7x35
RKS100E	100	100	12.7	6.35	Ø79.4x44.5
RKS10RE	10	100	12.7	6.35	Ø79.4x44.5
RKS1K0E	1k	100	12.7	6.35	Ø79.4x44.5
RKS1R0E	1	100	12.7	6.35	Ø79.4x44.5
RKS25RE	25	100	12.7	6.35	Ø79.4x44.5
RKS500E	500	100	12.7	6.35	Ø79.4x44.5
RKS50RE	50	100	12.7	6.35	Ø79.4x44.5
RKS5R0E	5	100	12.7	6.35	Ø79.4x44.5

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Potentiometer: shaft; wirewound; OHMITE (cont.)

RES100E	100	12.5	9.53	3.18	Ø22.2x17.5
RES10RE	10	12.5	9.53	3.18	Ø22.2x17.5
RKS750E	750	100	12.7	6.35	Ø79.4x44.5
RES10KE	10k	12.5	9.53	3.18	Ø22.23x17.46
RES125E	125	12.5	9.53	3.18	Ø22.23x17.46
RES150E	150	12.5	9.53	3.18	Ø22.23x17.46
RES15KE	15k	12.5	9.53	3.18	Ø22.23x17.46
RES15RE	15	12.5	9.53	3.18	Ø22.23x17.46
RES1K5E	1.5k	12.5	9.53	3.18	Ø22.23x17.46
RES1R0E	1	12.5	9.53	3.18	Ø22.23x17.46
RES200E	200	12.5	9.53	3.18	Ø22.23x17.46
RES250E	250	12.5	9.53	3.18	Ø22.23x17.46
RES2K5E	2.5k	12.5	9.53	3.18	Ø22.23x17.46
RES2R0E	2	12.5	9.53	3.18	Ø22.23x17.46
RES350E	350	12.5	9.53	3.18	Ø22.23x17.46
RES35RE	35	12.5	9.53	3.18	Ø22.23x17.46
RES3K5E	3.5k	12.5	9.53	3.18	Ø22.23x17.46
RES3R0E	3	12.5	9.53	3.18	Ø22.23x17.46
RES50RE	50	12.5	9.53	3.18	Ø22.23x17.46
RES5R0E	5	12.5	9.53	3.18	Ø22.23x17.46
RES75RE	75	12.5	9.53	3.18	Ø22.23x17.46
RHS1K5E	1.5k	25	3.17	6.35	Ø39.62x34.93
RHS250E	250	25	3.17	6.35	Ø39.62x34.93
RHS2K5E	2.5k	25	3.17	6.35	Ø39.62x34.93
RHS2R0E	2	25	3.17	6.35	Ø39.62x34.93
RHS3R0E	3	25	3.17	6.35	Ø39.62x34.93
RHS500E	500	25	3.17	6.35	Ø39.62x34.93
RHS6R0E	6	25	3.17	6.35	Ø39.62x34.93
RJS12RE	12	50	9.52	6.35	Ø58.67x34.93
RJS150E	150	50	9.52	6.35	Ø58.67x34.93
RJS35RE	35	50	9.52	6.35	Ø58.67x34.93
RJS4R0E	4	50	9.52	6.35	Ø58.67x34.93
RJS80RE	80	50	9.52	6.35	Ø58.67x34.93
RJS8R0E	8	50	9.52	6.35	Ø58.67x34.93
RJSR50E	500m	50	9.52	6.35	Ø58.67x34.93
RJS15KE	15k	50	9.52	6.35	Ø58.67x34.93
RJS1K6E	1.6k	50	9.52	6.35	Ø58.67x34.93
RJS20KE	20k	50	9.52	6.35	Ø58.67x34.93
RJS225E	225	50	9.52	6.35	Ø58.67x34.93
RJS25KE	25k	50	9.52	6.35	Ø58.67x34.93
RJS2K5E	2.5k	50	9.52	6.35	Ø58.67x34.93
RJS300E	300	50	9.52	6.35	Ø58.67x34.93
RJS30KE	30k	50	9.52	6.35	Ø58.67x34.93
RJS3K5E	3.5k	50	9.52	6.35	Ø58.67x34.93
RJS40KE	40k	50	9.52	6.35	Ø58.67x34.93
RJS50KE	50k	50	9.52	6.35	Ø58.67x34.93
RJS5K0E	5k	50	9.52	6.35	Ø58.67x34.93
RJS800E	800	50	9.52	6.35	Ø58.67x34.93
RJS8K0E	8k	50	9.52	6.35	Ø58.67x34.93

Symbol	Cap. [µF]	Tol. [%]	Body dim. [mm]
I140X553I-D00	5.3	±4	Ø31x76
I140V620I-D	20	±5	Ø40x88

Capacitor: polypropylene; three-phase; Series: F50; DUCATI ENERGIA



DUCATI energia

Type of capacitor : polypropylene
 Kind of capacitor : three-phase
 Application : power factor correction
 Tolerance : -5...10%
 Leads : screw
 Mounting : vertically
 Features : internal delta connection; discharge resistors included

Manufacturer series : F50

Symbol	Capacitance [µF]	Reactive power [kVAR]	Oper. volt. [V AC]	Operating current [A]	Body dim. [mm]
415.04.7712	-	12.5	-	-	-
415.04.7710	-	10	-	-	-
415.04.7715	-	15	415	-	-
415.04.7010	31	5	415	7	230x218x79
415.04.7210	19	5	525	5.5	230x218x79

Current prices are available on www.tme.pl

Capacitor: polypropylene; 450V; SR PASSIVES



SRPASSIVES

Oper. voltage : 450V
 Tolerance : ±5%
 Operating temperature : -25...70°C

Type of capacitor : polypropylene

Cap. [µF]	Body dim. [mm]	Leads dimensions [mm]	Cap. [µF]	Body dim. [mm]	Leads dimensions [mm]
1	Ø30x57	6.3	12	Ø40x70	6.3
1.5	Ø30x60	6.3	14	Ø40x70	6.3
1.5	Ø30x57	6.3	14	Ø40x70	6.3
2	Ø30x60	6.3	14	Ø42x70	-
2	Ø30x57	6.3	16	Ø40x70	6.3
2.5	Ø30x60	6.3	16	Ø40x70	6.3
2.5	Ø30x57	6.3	16	Ø40x70, Ø45x95	-
2.5	Ø35x65	-	16	Ø42x70	-
2.5	Ø35x60	-	20	Ø40x70	6.3
3	Ø35x65	-	20	Ø40x70	6.3
3	Ø35x60	-	20	Ø40x70	-
4	Ø30x57, Ø35x65	6.3	20	Ø40x70	-
4	Ø35x60	-	25	Ø42x95, Ø45x95	6.3
4.5	Ø35x60	6.3	25	Ø45x95	-
4.5	Ø35x60	6.3	25	Ø42x82	-
6	Ø35x60	6.3	30	Ø45x90, Ø45x93	6.3
6	Ø35x65	6.3	30	Ø45x90, Ø45x95	6.3
6	Ø35x65	-	30	Ø45x95	-
6	Ø35x60	-	30	Ø50x90	-
8	Ø35x60	6.3	40	Ø45x93, Ø48x93	6.3
8	Ø35x65	6.3	40	Ø50x106	6.3
8	Ø35x60	-	50	Ø50x100, Ø50x106	6.3
8	Ø35x65	-	50	Ø50x106	6.3
8	Ø35x60	-	60	Ø50x100, Ø50x106	6.3
10	Ø35x60	6.3	60	Ø50x106	6.3
10	Ø35x65	6.3	80	Ø58x120, Ø60x120	6.3
10	Ø35x65	-	80	Ø60x120	6.3
10	Ø35x60	-	80	Ø60x120	-
12	Ø40x70	6.3	100	Ø60x120	6.3

Motor and lighting capacitors

Capacitor: polypropylene; for discharge lamp; MIFLEX



MIFLEX S.A.

Type of capacitor : polypropylene
 Operating voltage : 250V AC
 Application : for discharge lamp

Symbol	Capacitance [µF]	Body dimensions [mm]	Mounting
I520U570K-G0Z	7	Ø30x70	clip
I520U580K-F0Z	8	Ø30x70	M8 screw
I520U640K-F22	40	Ø45x95	M8 screw

Capacitor: polypropylene; Series: MKSP-025; MIFLEX

MIFLEX S.A.



Type of capacitor : polypropylene
 Manufacturer series : MKSP-025
 Operating temp. : -40...85°C
 Application : for discharge lamp
 Operating voltage : 450V AC
 Leads : spring clamps
 Mounting : M8 screw

Capacitor: electrolytic; for motors, start; DUCATI ENERGIA



DUCATI energia

Type of capacitor : electrolytic
 Leads : connectors

cont. on the next page

Capacitor: electrolytic; for motors, start; DUCATI ENERGIA (cont.)

Tolerance : ±10%
 Application : for motors, start
 Leads dimensions : 6.3mm

Symbol	Capacitance [µF]	Oper. volt. [V AC]	Operating temp. [°C]	Body dim. [mm]	Mounting
4.12.80.2.112	48	250	-20...60	Ø36.5x68.5	-
4.12.80.2.410	97	250	-20...55	Ø45.5x84	-
4.12.80.2.419	136	250	-20...55	Ø45.5x84	Mounting bracket 3.12.36
4.12.80.3.404	40	250	-20...55	Ø36.5x68.5	M8 screw
4.12.80.3.406	50	250	-20...55	Ø36.5x68.5	M8 screw
4.12.80.3.409	79	250	-20...55	Ø45.5x84	M8 screw
4.12.80.3.410	97	250	-20...55	Ø45.5x84	M8 screw
4.12.80.3.411	119	250	-20...55	Ø45.5x84	M8 screw
4.12.80.3.417	238	250	-20...55	Ø52x105	M8 screw
4.12.80.3.418	59	250	-20...55	Ø36.5x68.5	M8 screw
4.12.80.3.420	143	250	-20...55	Ø45.5x84	M8 screw
4.12.80.3.424	208	250	-20...55	Ø45.5x84	M8 screw
4.12.80.3.427	70	250	-20...55	Ø36.5x68.5	M8 screw
4.12.80.3.428	267	250	-20...55	Ø52x105	M8 screw
4.12.80.3.510	97	280	-20...55	Ø45.5x84	M8 screw
4.12.80.5.457	59	330	-20...55	Ø45.5x84	-
4.12.80.5.460	97	330	-20...55	Ø52.4x105	Mounting bracket 3.12.36

Related articles:

Symbol	Product description
3.12.11.0830	Protective cap;for capacitors with a capacity of up to 70uF
3.12.11.0840	Protective cap;for capacitors with a capacity from 80uF

Capacitor: polypropylene; Series: MKSP-5P; MIFLEX



MIFLEX S.A.

Type of capacitor : polypropylene
 Application : motors, run
 Oper. voltage : 450V
 Service life : 10000h
 Manufacturer series : MKSP-5P
 Operating temp. : -25...70°C

Information : more products from this series available on www.tme.eu

Cap.	Tol.	Body dim.	Cap.	Tol.	Body dim.
[µF]	[%]	[mm]	[µF]	[%]	[mm]
0.68	±10	Ø20x42	6	±10	Ø30x53
1	±10	Ø25x51	6	±10	Ø30x53
1.5	±10	Ø25x51	6	±10	Ø30x58
1.5	±10	Ø25x51	8	±5	Ø35x55
2	±10	Ø25x51	8	±10	Ø30x78
3	±10	Ø25x51	12	±10	Ø35x65
3	±10	Ø25x58	14	±10	Ø35x65
4	±10	Ø25x51	20	±10	Ø40x78
4	±10	Ø25x53	25	±10	Ø45x78
4	±10	Ø25x58	30	±10	Ø45x78

Capacitor: polypropylene; Series: MKSP-8; MIFLEX



MIFLEX S.A.

Manufacturer : MIFLEX
 Type of capacitor : polypropylene
 Oper. volt. : 400V AC
 Leads : cables
 Service life : 3000h
 Manufacturer series : MKSP-8

Symbol	Capacitance [µF]	Tolerance [%]	Body dim. [mm]	Term. pitch [mm]
I250V510K-C	1	±10	31.5x24.5x15	27.5
I250V515K-C	1.5	±10	41.4x28.5x16	37.5
I250V520K-C	2	±10	41.4x28.5x16	37.5
I250V530J-C	3	±5	41.4x33x17.9	37.5
I250V525J-C	2.5	±5	41.4x28.5x16	37.5

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Tolerance : ±5%

Symbol	Type of capacitor	Application	Capacitance [µF]	Oper. volt. [V AC]	Operating temp. [°C]	Body dim. [mm]
4.16.33.01.29	polypropylene	motors, run	0.8	400	-25...70	Ø25x60
4.16.17.01.64	polypropylene	motors, run	1	475	-25...85	Ø28x55
4.16.17.01.71	polypropylene	motors, run	1	425	-25...85	Ø28x55
4.16.17.01.72	polypropylene	motors, run	1	425	-25...85	Ø28x55
4.16.18.01.AA	polypropylene	motors, run	1	250	-25...85	Ø25x50
4.16.17.23.06	polypropylene	motors, run	1.5	475	-25...85	Ø28x55
4.16.17.23.27	polypropylene	motors, run	1.5	475	-25...85	Ø28x55
4.16.17.23.64	polypropylene	motors, run	1.5	475	-25...85	Ø28x55
4.16.10.01.27	polypropylene	motors, run	2	475	-25...85	Ø28x55
4.16.10.01.64	polypropylene	motors, run	2	425	-25...85	Ø28x55
4.16.10.01.71	polypropylene	motors, run	2	400	-25...85	Ø28x55
4.16.17.02.72	polypropylene	motors, run	2	425	-25...85	Ø28x55
4.16.17.02GA	polypropylene	motors, run	2	425	-25...85	Ø28x55
4.16.17.74.27	polypropylene	motors, run	2	475	-25...85	Ø25x49
4.16.10.02.27	polypropylene	motors, run	2.5	475	-25...85	Ø28x55
4.16.10.D2.72	polypropylene	motors, run	2.5	400	-25...85	Ø25x55
4.16.17.03.72	polypropylene	motors, run	2.5	425	-25...85	Ø28x55
4.16.10.02.64	polypropylene	motors, run	2.5	425	-25...85	Ø28x55
4.16.10.03.27	polypropylene	motors, run	3	425	-25...85	Ø28x55
4.16.10.03.64	polypropylene	motors, run	3	425	-25...85	Ø28x55
4.16.10.03.72	polypropylene	motors, run	3	400	-25...85	Ø28x55
4.16.17.04.71	polypropylene	motors, run	3	425	-25...85	Ø28x55
4.16.17.77.SA	polypropylene	motors, run	3	425	-25...85	Ø25x55
4.16.10.05.64	polypropylene	motors, run	3.5	425	-25...85	Ø28x55
4.16.10.05.72	polypropylene	motors, run	3.5	400	-25...85	Ø28x55
4.16.27.37.29	polypropylene	motors, run	3.5	330	-25...85	Ø25x60
4.16.10.06.27	polypropylene	motors, run	4	475	-25...85	Ø28x55
4.16.10.06.64	polypropylene	motors, run	4	425	-25...85	Ø28x55
4.16.10.06.71	polypropylene	motors, run	4	400	-25...85	Ø28x55
4.16.10.06.72	polypropylene	motors, run	4	425	-25...85	Ø28x55
4.16.17.07.60	polypropylene	motors, run	4	475	-25...85	Ø28x55
4.16.17.07.TA	polypropylene	motors, run	4	475	-25...85	Ø28x55
4.16.25.35.28	polypropylene	motors, run	4	425	-25...85	Ø30x60
4.16.25.35.60	polypropylene	motors, run	4	425	-25...85	Ø30x60
4.16.10.07.64	polypropylene	motors, run	4.5	425	-25...85	Ø28x55
4.16.27.39.29	polypropylene	motors, run	4.5	330	-25...70	Ø25x60
4.16.10.08.27	polypropylene	motors, run	5	425	-25...85	Ø28x55
4.16.10.08.64	polypropylene	motors, run	5	425	-25...85	Ø28x55
4.16.10.08.72	polypropylene	motors, run	5	400	-25...85	Ø28x55
4.16.10.79.71	polypropylene	motors, run	5.5	400	-25...85	Ø32x55
4.16.10.79.72	polypropylene	motors, run	5.5	400	-25...85	Ø32x55
4.16.10.09.27	polypropylene	motors, run	6	425	-25...85	Ø32x55
4.16.10.09.64	polypropylene	motors, run	6	425	-25...85	Ø32x55
4.16.10.09.72	polypropylene	motors, run	6	400	-25...85	Ø32x55
4.16.25.08.28	polypropylene	motors, run	6.3	425	-25...70	Ø35x60
4.16.17.11.71	polypropylene	motors, run	7	425	-25...85	Ø36x58
4.16.17.11.SA	polypropylene	motors, run	7	425	-25...85	Ø36x58
4.16.10.13.27	polypropylene	motors, run	8	425	-25...85	Ø32x55
4.16.10.13.64	polypropylene	motors, run	8	425	-25...85	Ø32x55
4.16.10.15.27	polypropylene	motors, run	10	425	-25...85	Ø36x58
4.16.17.13.64	polypropylene	motors, run	10	475	-25...85	Ø36x70
4.16.10.15.64	polypropylene	motors, run	10	425	-25...85	Ø36x58
4.16.10.17.27	polypropylene	motors, run	12	475	-25...85	Ø36x70
4.16.10.17.64	polypropylene	motors, run	12	425	-25...85	Ø36x70
4.16.17.29.71	polypropylene	motors, run	12	425	-25...85	Ø40x70
4.16.10.21.64	polypropylene	motors, run	14	425	-25...85	Ø36x70
4.16.17.26.71	polypropylene	motors, run	15	425	-25...85	Ø40x70
4.16.10.99.27	polypropylene	motors, run	16	425	-25...85	Ø36x70
4.16.10.99.64	polypropylene	motors, run	16	425	-25...85	Ø36x70
4.16.10.25.27	polypropylene	motors, run	20	475	-25...85	Ø40x70
4.16.10.25.64	polypropylene	motors, run	20	425	-25...85	Ø40x70
4.16.10.26.27	polypropylene	motors, run	25	475	-25...85	Ø40x92
4.16.10.26.64	polypropylene	motors, run	25	425	-25...85	Ø40x92
4.16.10.70.27	polypropylene	motors, run	30	425	-25...85	Ø40x92
4.16.17.21.60	polypropylene	motors, run	30	475	-25...85	Ø45x92
4.16.10.70.64	polypropylene	motors, run	30	425	-25...85	Ø40x92
4.16.10.28.92	polypropylene	motors, run	35	400	-25...85	Ø45x92
4.16.25.25.60	polypropylene	motors, run	35	425	-25...70	Ø45x98
4.16.10.29.64	polypropylene	motors, run	40	425	-25...85	Ø45x92
4.16.10.63.64	polypropylene	motors, run	45	425	-25...85	Ø45x117
4.16.25.27.60	polypropylene	motors, run	45	425	-25...70	Ø45x122
4.16.17.28.64	polypropylene	motors, run	50	425	-25...85	Ø50x117
4.16.25.28.29	polypropylene	motors, run	50	425	-25...70	Ø45x122
4.16.33.56.60	polypropylene	motors, run	50	475	-25...85	Ø55x122
4.16.10.30.64	polypropylene	motors, run	50	400	-25...85	Ø45x117
4.16.10.61.64	polypropylene	motors, run	60	400	-25...85	Ø50x117
4.16.10.87.64	polypropylene	motors, run	80	425	-25...85	Ø55x117

Capacitor: polypropylene; Series: C27; KEMET



Manufacturer : KEMET
 Type of capacitor : polypropylene
 Application : motors, run
 Service life : 10000h
 Climate class : 25/085/21
 Operating temperature : -25...85°C
 Mounting : M8 screw
 Manufacturer series : C27

Information : more products from this series available on www.tme.eu

Symbol	Cap. [µF]	Tolerance [%]	Oper. volt. [V AC]	Body dim. [mm]	Leads
C274AC34100AA0J	1	±5	470	Ø25x56.5	connectors
C274AC24150AA0J	1.5	±5	470	Ø25x56.5	connectors
C274ACF4150LF0J	1.5	±5	470	Ø25x58.5	cables
C274AC34200AA0J	2	±5	470	Ø25x58	connectors
C274AC34200SA0J	2	±5	470	Ø25x56.5	connectors
C274ACA4200AL0J	2	±5	470	Ø25x55	cables
C276CC24200AA0J	2	±5	420	Ø25x56.5	connectors
C276CCF4200LG0J	2	±5	420	Ø45x71.5	cables
C274ACA4250AL0J	2.5	±5	470	Ø25x55	cables
C274ACF4250LF0J	2.5	±5	470	Ø25x58.5	cables
C276CC24250AA0J	2.5	±5	420	Ø25x56.5	connectors
C274AC34300SA0J	3	±5	470	Ø25x56.5	connectors
C274ACF4300LF0J	3	±5	470	Ø25x58.5	cables
C276CC24300AA0J	3	±5	420	Ø25x56.5	connectors
C274AC34400AA0J	4	±5	470	Ø30x56.5	connectors
C274AC34400SA0J	4	±5	470	Ø30x56.5	connectors
C274ACF4400LF0J	4	±5	470	Ø30x58.5	cables
C276CC24400AA0J	4	±5	420	Ø25x56.5	connectors
C274AC34500AA0J	5	±5	470	Ø30x56.5	connectors
C274AC34500SA0J	5	±5	470	Ø30x56.5	connectors
C274ACF4500LF0J	5	±5	470	Ø30x58.5	cables
C276CC24500AA1J	5	±5	420	Ø25x56.5	connectors
C276CC24600AA0J	6	±5	420	Ø30x56.5	connectors
C276CCF4600LG0J	6	±5	420	Ø30x57	cables
C274AC34800AA0J	8	±5	470	Ø35x56.5	connectors
C274ACF4800LF0J	8	±5	470	Ø35x58.5	cables
C276CC24800AA0J	8	±5	420	Ø35x56.5	connectors
C274AC35100AA0J	10	±5	470	Ø35x73.5	connectors
C274AC35100SA0J	10	±5	470	Ø35x73.5	connectors
C274ACF5100LF0J	10	±5	470	Ø35x71.5	cables
C274ACF5100SA0J	10	±5	470	Ø35x71.5	cables
C276CC25100AA0J	10	±5	420	Ø35x56.5	connectors
C276CC35100AA0J	10	±5	420	Ø35x56.5	connectors
C274AC35120AA0J	12	±5	470	Ø35x73.5	connectors
C274AC35120SA0J	12	±5	470	Ø35x73.5	connectors
C274ACF5120LF0J	12	±5	470	Ø35x71.5	cables
C274ACF5120WA0J	12	±5	470	Ø35x71.5	cables
C276CC25120AA0J	12	±5	420	Ø35x73.5	connectors
C274AC35150AA0J	15	±5	470	Ø40x73.5	connectors
C274AC35150SA0J	15	±5	470	Ø40x73.5	connectors
C274ACF5150WA0J	15	±5	470	Ø40x73.5	cables
C276CC25160AA0J	16	±5	420	Ø40x73.5	connectors
C276CC35160AA0J	16	±5	420	Ø40x73.5	connectors
C276CCF5160LG0J	16	±5	470	Ø35x71.5	cables
C274AC35180AA0J	18	±5	470	Ø45x74	connectors
C274AC35180SA0J	18	±5	470	Ø45x74	connectors
C274AC35200AA0J	20	±5	470	Ø45x74	connectors
C274ACF5200LF0J	20	±5	470	Ø45x71.5	cables
C274ACF5200WA0J	20	±5	470	Ø45x71.5	cables
C276CC25200AA0J	20	±5	420	Ø45x74	connectors
C274AC35250SA0J	25	±5	470	Ø45x94.5	connectors
C274ACF5250WA0J	25	±5	470	Ø45x95	cables
C276CC25250AA0J	25	±5	420	Ø45x74	connectors
C274AC35300SA0J	30	±5	470	Ø45x94.5	connectors
C274ACF5300LF0J	30	±5	470	Ø45x93	cables
C276CC25300AA0J	30	±5	420	Ø45x94.5	connectors
C274AC35350AA0J	35	±5	470	Ø50x95	connectors
C274AC35350SA0J	35	±5	470	Ø50x96	connectors
C274ACF5350LF0J	35	±5	470	Ø50x120	cables
C274ACF5350WA0J	35	±5	470	Ø50x96.5	cables
C274AC35400AA0J	40	±5	470	Ø50x120	connectors
C274ACF5400LF0J	40	±5	470	Ø50x120	cables
C276CCF5400LG0J	40	±5	420	Ø45x95	cables
C276CC35450AA0J	45	±5	420	Ø50x96	connectors

Capacitor: polypropylene; Series: C87; KEMET



Manufacturer : KEMET
 Type of capacitor : polypropylene
 Application : motors, run
 Operating temperature : -25...85°C
 Leads : connectors
 Manufacturer series : C87
 Leads dimensions : 6.3mm

Symbol	Cap. [µF]	Tolerance [%]	Oper. voltage [V]	Mounting	Body dim. [mm]
C871WF24100ZA0J	1	±5	470	M8 screw	-
C878BF34200SA0J	2	±5	470	M8 screw	Ø30x48
C878BF35150SA0J	15	±5	470	M8 screw	-
C878BF35200SA0J	20	±5	470	M8 screw	Ø45x78
C878BF35250SA0J	25	±5	470	M8 screw	Ø45x98
C878BF35350SA0J	35	±5	470	M8 screw	Ø45x133
C878BG35500SA0J	50	±5	470	M12 screw	Ø50x133
C870CF35400AA0J	40	±5	470	M8 screw	Ø45x98
C878BF34200AA0J	2	±5	470	M8 screw	Ø30x48
C878BF34250AA4J	2.5	±5	470	M8 screw	Ø30x48
C878BF34300AA4J	3	±5	470	M8 screw	Ø30x48
C878BF34350AA4J	3.5	±5	470	M8 screw	Ø35x48
C878BF34600AA0J	6	±5	470	M8 screw	Ø30x78
C878BF34800AA0J	8	±5	470	M8 screw	Ø30x78
C878BF35100AA0J	10	±5	470	M8 screw	Ø35x78
C878BF35120AA0J	12	±5	470	M8 screw	Ø35x78
C878BF35150AA0J	15	±5	470	M8 screw	Ø40x78
C878BF35160AA0J	16	±5	470	M8 screw	Ø40x78
C878BF35200AA0J	20	±5	470	M8 screw	Ø45x78
C878BF35250AA0J	25	±5	470	M8 screw	Ø48x98
C878BF35300AA0J	30	±5	470	M8 screw	Ø45x98
C878BF35400AA0J	40	±5	470	M8 screw	Ø45x133
C878BF35160SA0J	16	±5	450	M8 screw	Ø25x56.5
C878BF34350SA4J	3.5	±5	450	M8 screw	Ø25x56.5
C878BF34600SA0J	6	±5	450	M8 screw	Ø25x56.5
C878BF34150SA4J	1.5	±5	450	M8 screw	Ø25x56.5
C878BF3460SA0J	46	±5	450	M8 screw	Ø25x56.5
C878BF34750SA0J	7.5	±5	450	M8 screw	Ø25x56.5
C878AG35550AA0J	55	±5	470	M12 screw	Ø50x133
C878BF34400SA0J	4	±5	470	M8 screw	Ø35x48
C878BF35100SA0J	10	±5	470	M8 screw	Ø35x78
C878BF35120SA0J	12	±5	470	M8 screw	Ø35x78
C878BF35300SA0J	30	±5	470	M8 screw	Ø45x98
C284ACR4800AL2J	8	±5	470	M8 screw	Ø30x69.5

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Capacitor accessories:

- protective cap (3.12.11.08x0)
- holder (3.12.36.0020, 3.12.36.0010)

Body dimensions:

- Ø36.5x13.7mm (3.12.11.0830)
- Ø45.5x14.6mm (3.12.11.0840)
- Ø52x18.6mm (3.12.11.0850)
- 104.4x28x35mm (3.12.36.0020)

Symbol Application

3.12.11.0830 for capacitors with a capacity of up to 70µF

3.12.11.0840 for capacitors with a capacity from 80µF

Mounting (3.12.11.0830, 3.12.11.0840, 3.12.36.0020):

- snap fastener

Related items:

- 4.12.80.2.419 (3.12.11.0840, 3.12.36.0020)
- 4.12.80.3.404 (3.12.11.0830)
- 4.12.80.3.406 (3.12.11.0830)
- 4.12.80.3.409 (3.12.11.0840)
- 4.12.80.3.410 (3.12.11.0840)
- 4.12.80.3.411 (3.12.11.0840)
- 4.12.80.3.418 (3.12.11.0830)
- 4.12.80.3.420 (3.12.11.0840)
- 4.12.80.3.424 (3.12.11.0840)
- 4.12.80.3.427 (3.12.11.0830)

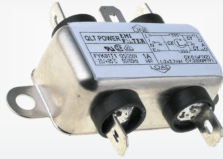
EMI/EMC protection

Filter: anti-interference; FYG; QLT POWER



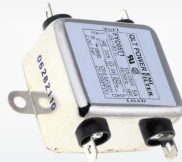
Type of filter	: anti-interference	
Operating voltage	: 250V AC	
AC test voltage	: 1.8kV	
Cx	: 100nF	
Cy	: 3.3nF	
Min. insulation resistance	: 100MΩ	
Leakage current	: 0.8mA	
Leads	: for soldering	
Operating temperature	: -25...85°C	
Series	: FYG	
Mounting holes pitch	: 40mm	
Panel cutout diameter	: 3.7mm	
Body dimensions	: 68.5x50x25.5mm	
Symbol	I_{oper. max}	Induct. of indiv. wind.
	[A]	[mH]
FYG03T5	3	1.8
FYG06T5	6	0.7
FYG10T5	10	0.3
FYG01T5	1	3.7

Filter: anti-interference; FYK; QLT POWER



Type of filter	: anti-interference		
AC test voltage	: 1.8kV		
Leakage current	: 0.8mA		
Operating temperature	: -25...85°C		
Min. insulation resistance	: 100MΩ		
Series	: FYK		
Mounting holes pitch	: 53.5mm		
Cx	: 100nF		
Cy	: 3.3nF		
Panel cutout diameter	: 4.7mm		
Operating voltage	: 250V AC		
Symbol	I_{oper. max}	Induct. of indiv. wind.	Leads
	[A]	[mH]	
FYK01T1-C	1	3.7	cables
FYK03T1-C	3	1.8	cables
FYK06T1-C	6	0.7	cables
FYK10T1-C	10	0.3	cables
FYK01T1	1	3.7	connectors
FYK03T1	3	1.8	connectors
FYK10T1	10	0.3	connectors
Symbol	: FYKxxT1		
Leads dimensions	: 6.3x0.8mm		

Filter: anti-interference; FYC; QLT POWER



Type of filter	: anti-interference	
Operating voltage	: 250V AC	
AC test voltage	: 1.8kV	
Cx	: 100nF	
Cy	: 3.3nF	
R	: 10MΩ	
Min. insulation resistance	: 100MΩ	
Leakage current	: 0.8mA	
Leads	: connectors	
Features	: body dimensions with terminals	
Operating temperature	: -25...85°C	
Series	: FYC	
Panel cutout diameter	: 5mm	
Mounting holes pitch	: 60mm	
Body dimensions	: 70.7x50x28.5mm	

Leads dimensions	: 6.3x0.8mm	
Symbol	I_{oper. max}	Induct. of indiv. wind.
	[A]	[mH]
FYC10T1	10	1.2
FYC15T1	15	0.9
FYC20T1	20	0.5

Filter: anti-interference; QLT POWER



Type of filter	: anti-interference			
Operating voltage	: 250V AC			
AC test voltage	: 1.8kV			
Cx	: 100nF			
Cy	: 3.3nF			
R	: 10MΩ			
Min. insulation resistance	: 100MΩ			
Leakage current	: 0.8mA			
Features	: body dimensions with terminals			
Operating temperature	: -25...85°C			
Mount. holes pitch	: 75mm			
Panel cutout diam.	: 5mm			
Body dimensions	: 89x51.5x37mm			
Series	: FYE			
Symbol	I_{oper. max}	Induct. of indiv. wind.	Leads	Leads dimensions
	[A]	[mH]		[mm]
FYE05T1	5	5	connectors	6.3x0.8
FYE10T1	10	3	connectors	6.3x0.8
FYE05T1L2	5	5	connectors	6.3x0.8
FYE15T1L2	15	0.9	connectors	6.3x0.8
FYE20T1	20	0.9	connectors	6.3x0.8

Filter: anti-interference; for DIN rail mounting; FMBB; SCHURTER



Manufacturer	: SCHURTER			
Type of filter	: anti-interference			
Leads	: screw terminals			
R	: 1MΩ			
Operating voltage	: 250V AC			
Operating temperature	: -25...100°C			
Mounting	: for DIN rail mounting			
Body dimensions	: 61x75x48mm			
Manufacturer series	: FMBB			
Symbol	I_{oper. max}	Induct. of indiv. wind.	Cx	Cy
	[A]	[mH]	[nF]	[nF]
5500.2261	10	1	68	22
5500.2262	20	0.15	68	22
5500.2263	1	15	100	1.5
5500.2264	2	10	100	1.5
5500.2265	3	12	100	1.5
5500.2269	6	0.8	100	1.5
5500.2270	10	0.4	100	1.5

Filter: anti-interference; Poles: 2; SCHURTER



Manufacturer	: SCHURTER					
Type of filter	: anti-interference					
Operating temperature	: -25...100°C					
Operating voltage	: 250V AC					
Symbol	I_{oper. max}	Induct. of indiv. wind.	Cx	Cy	R	Body dim.
	[A]	[mH]	[μF]	[nF]	[Ω]	[mm]
5500.2600.01	1	12	0.22	4.7	945m	46x52x31
5500.2601.01	3	2.5	0.22	4.7	120m	46x52x31
5500.2602.01	6	0.97	0.22	4.7	26.2m	46x52x31

cont. on the next page

Filter: anti-interference; Poles: 2; SCHURTER (cont.)

Symbol	I _{oper. max} [A]	Induct. of indiv. wind. [mH]	C _x [μF]	C _y [nF]	R [Ω]	Body dim. [mm]
5500.2605.01	16	0.65	0.33	4.7	8m	51x66x41
5500.2606.01	20	0.6	1	4.7	4.6m	52x87x46
5500.2607.03	30	0.6	1	10	2.5m	85x98x59
5500.2613.01	10	4.5	1	4.7	23.6	58x131x46
5500.2614.01	12	3.25	1	4.7	16m	58x131x46
5500.2615.01	16	2.8	1	4.7	10.9m	85x98x59
5500.2617.03	36	1.23	2.2	4.7	3.3m	58x131x46
5500.2069	12	5	-	-	500μ	106x100x58
5500.2218	16	1.3	1	4.7	1m	66x51x43
5500.2221	25	2	2.2	4.7	1m	130x48x58
5500.2222	36	1.23	2.2	4.7	1m	130x48x58

Leads:

- connectors (5500.26xx.01, 5500.22xx)
- M4 screws (5500.2607.03, 5500.2617.03)
- M6 screws (5500.2069)

Leakage current:

- 500μA (5500.22xx)
- 3.5mA (5500.2069)

Enclosure material (5500.2069, 5500.22xx):

- metal

Manufacturer series:

- FMBB (5500.26xxx, 5500.2069)
- FSW (5500.22xx)

Leads dimensions (5500.26xx.01, 5500.22xx):

- 6.3x0.8mm

Filter: anti-interference; three-phase; SCHURTER



SCHURTER

Manufacturer : SCHURTER

Type of filter : anti-interference

Kind of filter : three-phase

Leads : screw terminals

Mounting : screw

Symbol	I _{oper. max} [A]	Oper. volt. [V AC]	Body dimensions [mm]	Operating temperature [°C]
FMAC-091C-1610	16	480	199x46x70	-25...100
FMAC-091C-2510	25	480	199x46x70	-25...100
FMAC-091D-3610	36	480	199x58x90	-25...100
FMAC-091D-5010	50	480	199x58x90	-25...100
FMBD-B92A-1612	16	520	115x120x80	-25...100
FMBD-B92B-2512	25	520	125x130x115	-25...100
FMBD-B92B-3612	36	520	125x130x115	-25...100
FMAC-0924-0610	6	-	106x100x58	-25...100
FMAC-0932-1610	16	-	201x151x66	-25...100
FMAC-0932-2510	25	-	201x151x66	-25...100
FMAC-0934-3610	36	-	201x151x66	-25...100
FMAC-0934-5010	50	-	201x151x66	-25...100
FMAC-0953-6410	64	480	231x151x66	-25...100
FMAC-0954-H110	110	-	301x150x81	-25...100
FMAD-0931-0810	8	480	181x116x61	-25...100
FMAD-0931-1610	16	480	181x116x61	-25...100
FMAD-0932-2510	25	480	201x151x66	-25...100
FMAD-0934-3610	36	480	201x151x66	-25...100
FMAD-0934-5010	50	480	201x151x66	-25...100
FMAD-0937-8010	80	480	301x150x81	-25...100
FMAD-0953-6410	64	480	231x151x66	-25...100
FMAD-0954-H110	110	480	301x150x81	-25...100
FMBC-A91C-1610	16	480	200x45.5x70	-25...100
FMBC-A91G-J010	100	480	240x90x150	-25...100
FMBC-A91Q-3010	30	480	240x50x85	-25...100
FMBC-A91R-4210	42	480	280x50x85	-25...100
FMBC-A91U-0710	7	480	160x40x70	-25...100
FMBD-B92C-6412	64	520	160x125x125	-25...100
FMER-G92S-J517	150	1.2k	220x140x115	-40...100
FMER-G92U-M057	400	1.2k	300x140x110	-40...100
3-109-852	16	520	121x110x91	-40...100
3-123-461	36	520	-	-40...100

Information (FMxxx, 3-109-852):

- more products from this series available on www.tme.eu

Filter: anti-interference; three-phase; SCHURTER



SCHURTER

Manufacturer : SCHURTER

Type of filter : anti-interference

Kind of filter : three-phase

Leads : screw terminals

Mounting : screw

Symbol	I _{oper. max} [A]	Oper. volt. [V AC]	Body dimensions [mm]	Operating temperature [°C]
FMAC-091C-1610	16	480	199x46x70	-25...100
FMAC-091C-2510	25	480	199x46x70	-25...100
FMAC-091D-3610	36	480	199x58x90	-25...100
FMAC-091D-5010	50	480	199x58x90	-25...100
FMBD-B92A-1612	16	520	115x120x80	-25...100
FMBD-B92B-2512	25	520	125x130x115	-25...100
FMBD-B92B-3612	36	520	125x130x115	-25...100
FMAC-0924-0610	6	-	106x100x58	-25...100
FMAC-0932-1610	16	-	201x151x66	-25...100
FMAC-0932-2510	25	-	201x151x66	-25...100
FMAC-0934-3610	36	-	201x151x66	-25...100
FMAC-0934-5010	50	-	201x151x66	-25...100
FMAC-0953-6410	64	480	231x151x66	-25...100
FMAC-0954-H110	110	-	301x150x81	-25...100
FMAD-0931-0810	8	480	181x116x61	-25...100
FMAD-0931-1610	16	480	181x116x61	-25...100
FMAD-0932-2510	25	480	201x151x66	-25...100
FMAD-0934-3610	36	480	201x151x66	-25...100
FMAD-0934-5010	50	480	201x151x66	-25...100
FMAD-0937-8010	80	480	301x150x81	-25...100
FMAD-0953-6410	64	480	231x151x66	-25...100
FMAD-0954-H110	110	480	301x150x81	-25...100
FMBC-A91C-1610	16	480	200x45.5x70	-25...100
FMBC-A91G-J010	100	480	240x90x150	-25...100
FMBC-A91Q-3010	30	480	240x50x85	-25...100
FMBC-A91R-4210	42	480	280x50x85	-25...100
FMBC-A91U-0710	7	480	160x40x70	-25...100
FMBD-B92C-6412	64	520	160x125x125	-25...100
FMER-G92S-J517	150	1.2k	220x140x115	-40...100
FMER-G92U-M057	400	1.2k	300x140x110	-40...100
3-109-852	16	520	121x110x91	-40...100
3-123-461	36	520	-	-40...100

Information (FMxxx, 3-109-852):

- more products from this series available on www.tme.eu

Current prices are available on www.tme.pl

Filter: anti-interference; three-phase; SCHAFFNER

schaffner
TE

Manufacturer : SCHAFFNER

Kind of filter : three-phase

Type of filter : anti-interference

Symbol	I _{oper. max} [A]	Operating voltage [V AC]	Leads	Temp. [°C]
FN3258-100-35	100	480	screw terminals	-25...100
FN258-180-07	180	480	terminal block	-25...100
FN258-180-40	180	480	terminal block	-25...100
FN258L-250-07	250	480	terminal block	-25...100
FN258-16-07	16	520	cables, screw terminals	-25...100
FN258-16-29	16	520	screw terminals	-25...100
FN3270HQ1-20-44	20	520	connectors	-25...100
FN258-30-33	30	520	screw terminals	-25...100
FN3270HQ1-35-33	35	520	connectors	-25...100
FN3280H-36-33	36	520	screw terminals	-25...100
FN258-42-07	42	520	cables, screw terminals	-25...100
FN258-42-33	42	520	screw terminals	-25...100
FN258-55-07	55	520	cables, screw terminals	-25...100
FN258-55-34	55	520	screw terminals	-25...100
FN3270HQ1-65-34	65	520	connectors	-25...100
FN3270H-80-35	80	520	screw terminals	-25...100
FN3270HQ1-100-35	81	520	-	-25...100
FN258-100-35	100	520	screw terminals	-25...100

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Filter: anti-interference; three-phase; SCHAFFNER
(cont.)

Symbol	I _{oper.} max [A]	Operating voltage [V AC]	Leads	Temp. [°C]
FN258P-100-35	100	520	screw terminals	-25...100
FN3256H-120-35-R60	120	520	terminal block	-25...100
FN3270HQ1-150-99	150	520	connectors	-25...100
FN3359-150-28	150	520	terminal block	-25...100
FN3256H-160-40	160	520	terminal block	-25...100
FN3268-180-40	180	520	terminal block	-25...100
FN3270HQ1-200-99	200	520	connectors	-25...100
FN3271H-200-99	200	520	connectors	-25...100
FN3120H-230-40	230	520	terminal block	-25...100
FN3270HQ1-250-99	250	520	connectors	-25...100
FN3270HQ1-320-99	320	520	connectors	-25...100
FN3271H-320-99	320	520	connectors	-25...100
FN3270HQ1-400-99	400	520	connectors	-25...100
FN3280H-600-99-R69	600	520	connectors	-25...100
FN3359-800-99	800	520	connectors	-25...100
FN3311-1000-99-C16	1k	520	connectors	-40...100
FN3359-1600-99-UL	1.6k	520	connectors	-25...100
FN3310-2300-99-R5	2.3k	520	connectors	-40...100
FN3359-2500-99	2.5k	520	connectors	-25...100
FN3288IT-10-44-C34	10	530	screw terminals	-40...100
FN3288IT-20-33-C34	20	530	screw terminals	-40...100
FN3288-25-33-C17-R	25	530	screw terminals	-40...100
FN3288-63-53-C26-R	63	530	screw terminals	-40...100
FN3288IT-125-35-C3	125	530	screw terminals	-40...100
FN3288-160-40-C35	160	530	terminal block	-40...100
FN3288IT-160-40-C3	160	530	screw terminals	-40...100
FN258HVIT-100-35	100	690	terminal block	-25...100
FN258HVIT-130-35	130	690	terminal block	-25...100
FN258HVIT-7-29	7	760	screw terminals	-25...100
FN3288HVIT-10-44-C	10	760	screw terminals	-40...100
FN258HV-16-29	16	760	screw terminals	-25...100
FN3288HV-20-33-C25	20	760	screw terminals	-40...100
FN3288HV-50-53-C36	50	760	screw terminals	-40...100
FN3288HV-80-34-C25	80	760	screw terminals	-40...100
FN3288HV-100-35-C3	100	760	screw terminals	-40...100
FN3359HV-150-28	150	760	terminal block	-25...100
FN3310HV-250-99-R5	250	760	connectors	-40...100
FN3310HV-400-99-R5	400	760	connectors	-40...100
FN3310HV-600-99-R5	600	760	connectors	-40...100
FN3310HV-1000-99-R	1k	760	connectors	-40...100
FN3359HV-1600-99	1.6k	760	connectors	-25...100
FN3310HV-2300-99-R	2.3k	760	connectors	-40...100

Filter: anti-interference; single-phase; SCHAFFNER



Manufacturer : SCHAFFNER

Type of filter : anti-interference

Kind of filter : single-phase

Leads dimensions (FN2010-xxx, FN2020-6-06, FN2080-12-06):

— 6.3mm

Symbol	I _{oper.} max [A]	U _{oper.} [V AC]	Leads	Body dim. [mm]	Mounting
FN2010-1-06	1	250	connectors	64x35x29.3	screw
FN2010-3-06	3	250	connectors	64x35x24.3	screw
FN2020-6-06	6	250	connectors	64x35x29.3	screw
FN2010-10-06	10	250	connectors	64x35x29.3	screw
FN2080-12-06	12	250	connectors	156x57.5x45.4	screw
FN2010-16-06	16	250	connectors	71x46.6x29.3	screw
FN2010-20-06	20	250	connectors	85x54x30.3	screw
FN700Z-20-03	20	250	screw terminals	-	-
FN2010B-30-08	30	250	M4 screws	113.5x57.5x45.4	screw
FN2010-60-24	60	250	connectors	105x145.9x57.6	screw
FN2412H-8-44	8	520	screw terminals	110x93x73	for DIN rail mounting
FN2412H-16-44	16	520	screw terminals	110x93x73	for DIN rail mounting
FN2412H-25-33	25	520	screw terminals	110x93x87	for DIN rail mounting
FN2410H-60-34	60	520	screw terminals	165x115x100	screw
FN2410H-100-34	100	520	screw terminals	165x115x100	screw

Filter: anti-interference; EPCOS



Manufacturer : EPCOS

Type of filter : anti-interference

Symbol	I _{oper.} max [A]	Operating voltage [V AC]	Kind of filter	Body dim. [mm]
B84110B000A014	1.4	250	single-phase	31x34x33
B84111A000A030	3	250	single-phase	45x50x22.3
B84111A000B060	6	250	single-phase	45x50x28.6
B84111A000B110	10	250	single-phase	45x50x28.6
B84111A000B120	20	250	single-phase	63.5x50.8x38.1
B84111F000B030	3	250	single-phase	43.5x35x26
B84111F000B060	6	250	single-phase	43.5x35x26
B84111F000B110	10	250	single-phase	43.5x35x26
B84111F000B116	16	250	single-phase	48x45x14
B84111F000B120	20	250	single-phase	48x45x14
B84111F000G125	25	250	single-phase	63x51x38
B84111F000G136	36	250	single-phase	63x51x38
B84111F000M030	3	250	single-phase	43.5x35x26
B84111F000M060	6	250	single-phase	43.5x35x26
B84111F000M110	10	250	single-phase	43.5x35x26
B84111F000M116	16	250	single-phase	48x45x14
B84111F000M120	20	250	single-phase	48x45x14
B84111F000M125	25	250	single-phase	63x51x38
B84111F000M136	36	250	single-phase	63x51x38
B84112B000B020	2	250	single-phase	50x45x28.6
B84112B000B060	6	250	single-phase	63.5x50.8x28.6
B84112B000B110	10	250	single-phase	50.8x63.5x38.1
B84112B000B120	20	250	single-phase	84x99x38.1
B84112G000B020	2	250	single-phase	48x45x26
B84112G000B030	3	250	single-phase	63x51x29
B84112G000B060	6	250	single-phase	63x51x29
B84112G000B080	8	250	single-phase	63x51x29
B84112G000B110	10	250	single-phase	63x51x29
B84112G000B112	12	250	single-phase	63x51x29
B84112G000B116	16	250	single-phase	63x51x29
B84112G000G120	20	250	single-phase	91x51x43
B84112G000G125	25	250	single-phase	91x51x43
B84112G000G136	36	250	single-phase	91x51x43
B84112G000M020	2	250	single-phase	48x45x26
B84112G000M030	3	250	single-phase	63x51x29
B84112G000M060	6	250	single-phase	63x51x29
B84112G000M080	8	250	single-phase	63x51x29
B84112G000M110	10	250	single-phase	63x51x29
B84112G000M112	12	250	single-phase	63x51x29
B84112G000M116	16	250	single-phase	63x51x29
B84112G000M120	20	250	single-phase	91x51x43
B84112G000M125	25	250	single-phase	91x51x43
B84112G000M136	36	250	single-phase	91x51x43
B84113C000B030	3	250	single-phase	63.5x50.8x38.1
B84113C000B110	10	250	single-phase	133x50.8x44.5
B84113H000B030	3	250	single-phase	63x51x38
B84113H000B060	6	250	single-phase	63x51x38
B84113H000B110	10	250	single-phase	91x51x43
B84113H000B116	16	250	single-phase	91x51x43
B84113H000G120	20	250	single-phase	133x58x53
B84113H000G125	25	250	single-phase	133x58x53
B84113H000G136	36	250	single-phase	133x58x53
B84113H000M030	3	250	single-phase	63x51x38
B84113H000M060	6	250	single-phase	63x51x38
B84113H000M110	10	250	single-phase	91x51x43
B84113H000M116	16	250	single-phase	91x51x43
B84113H000M120	20	250	single-phase	133x58x53
B84113H000M125	25	250	single-phase	133x58x53
B84113H000M136	36	250	single-phase	133x58x53
B84114D000B110	10	250	single-phase	44.5x50.8x118
B84115E000B060	6	250	single-phase	44.5x50.8x159
B84142A0030R166	30	250	single-phase	99x84x69
B84142B0025R000	25	250	single-phase	81x113x206
B84143A0010R107	10	520	three-phase	120x57.5x58
B84143A0090R105	90	300	three-phase	80x135x290
B84243A8008W000	8	530	three-phase	160x40x95
B84243A8012W000	12	530	three-phase	160x40x95
B84243A8025W000	25	530	three-phase	230x50x100
B84773A0004A000	4	250	single-phase	27.8x39x32
B84773A0006A000	6	250	single-phase	27.8x39x32
B84776A0002A000	2	250	single-phase	58.5x38.1x29
B84776A0010A000	10	250	single-phase	58.5x38.1x29

Three-phase suppression filters Kemet



Manufacturer : KEMET
Type of filter : anti-interference
Kind of filter : three-phase

Symbol	Operating voltage [V AC]	I _{oper.} max [A]	I _r [mA]	Power dissipation [W]	Operating temp. [°C]
FLLD3250APV11	520	250	5	15	-40...100
FLLD31K0APV11	520	1k	5	75	-40...100
FLLD31K6APV11	520	1.6k	5	130	-40...100
FLLD3007AMHT3	530	7	3.1	4	-25...100
FLLD4008ATHT3	530	8	11	3	-25...100
FLLD4016ATHT3	530	16	11	6	-25...100
FLLD4025ATHT3	530	25	11	12	-25...100
FLLD3030AMHT3	530	30	4.7	12	-25...100
FLLD4036ATHT3	530	36	11	15	-25...100
FLLD3042AMHT3	530	42	4.7	15	-25...100
FLLD3055AMHT5	530	55	4.7	20	-25...100
FLLD4064ATHT5	530	64	11	18	-25...100
FLLD3075AMHT5	530	75	4.7	30	-25...100
FLLD3100AMHT6	530	100	4.7	32	-25...100
FLLD4120ATHT6	530	120	11	30	-25...100
FLLD3130AMHT6	530	130	4.7	40	-25...100
FLLD4160ATHT7	530	160	11	32	-25...100
FLLD3180AMHT7	530	180	4.7	45	-25...100
FLLD4200ATHT7	530	200	11	45	-25...100
FLLD3250APH11	690	250	5	15	-40...100

Current prices are available on www.tme.pl

Power factor correction

Capacitor: polypropylene; DUCATI ENERGIA



Manufacturer : DUCATI ENERGIA
Type of capacitor : polypropylene
Tolerance : -5...10%
Leads : connectors
Operating temp. : -25...55°C
Mounting : M12 screw
Kit contents : without washer and nut
Leads dimensions : 6.3mm

Symbol	Service life [h]	C [µF]	Q [kVAR]	U _{oper.} [V AC]	I _{oper.} [A]	Body dim. [mm]
416.30.6264	1.1·10 ⁵	52.4	3.33	450	7.4	Ø60x137
416.53.2350	1.1·10 ⁵	123.2	6.66	415	16	Ø60x165
416.30.0564	1.1·10 ⁵	100	1.67	230	7.2	Ø60x137
416.53.3100	1.1·10 ⁵	26.3	1.67	450	3.7	Ø45x115
416.53.3150	1.1·10 ⁵	39.3	2.5	450	5.6	Ø50x115
416.53.3200	1.1·10 ⁵	52.4	3.33	450	7.4	Ø50x115
416.53.3250	1.1·10 ⁵	65.6	4.17	450	9.3	Ø55x150
416.53.3300	1.1·10 ⁵	78.6	5	450	11.1	Ø60x150
416.53.3350	1.1·10 ⁵	104.7	6.66	450	18.8	Ø60x165
416.53.3400	1.1·10 ⁵	131	8.33	450	18.5	Ø65x165
416.53.4250	1.1·10 ⁵	48.2	4.17	525	7.9	Ø55x150
416.53.1100	1.1·10 ⁵	33.2	1.67	400	4.2	Ø45x115
416.30.3764	1.1·10 ⁵	66.3	3.33	400	8.3	Ø60x137
416.30.5664	1.1·10 ⁵	53.1	4.17	500	8.3	Ø60x137
416.53.4200	1.1·10 ⁵	38.5	3.33	525	6.3	Ø50x150
416.53.4300	-	57.8	5	525	9.5	Ø65x165

Capacitor: polypropylene; ISKRA



Manufacturer : ISKRA
Type of capacitor : polypropylene
Kind of capacitor : one phase
Operating temperature : -25...55°C
Application : power factor correction
Mounting : M12 screw
Leads : connectors

Symbol	Cap. [µF]	Reactive power [kVAR]	U _{oper.} [V AC]	I _{oper.} [A]	Body dim. [mm]
KNK5015-3.33K-400	66.3	3.33	400	8.3	Ø60x110
KNK5015-5K-400	99.5	5	400	12.5	Ø60x150
KNK5015-4.17K-400	82.9	4.17	400	10.4	Ø60x125

Capacitor: polypropylene; three-phase; Series: F50; DUCATI ENERGIA



Type of capacitor : polypropylene
Kind of capacitor : three-phase
Application : power factor correction
Tolerance : -5...10%
Leads : screw
Mounting : vertically
Features : internal delta connection;
discharge resistors included

Manufacturer series : F50

Symbol	Capacitance [µF]	Reactive power [kVAR]	Oper. volt. [V AC]	Operating current [A]	Body dim. [mm]
415.04.7010	31	5	415	7	230x218x79
415.04.7210	19	5	525	5.5	230x218x79

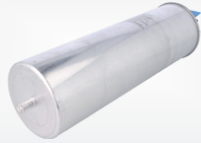
Capacitor: polypropylene; three-phase; ELECTRONICON



Manufacturer : ELECTRONICON

Symbol	Cap. [µF]	I _{oper.} [A]	Body dim. [mm]
265.266-706400/221	64	22	Ø95x230
265.286-709600/221	96	-	Ø116x230
265.525-502100/221	21	-	Ø60x164
265.546-604800/221	48	-	Ø75x230
275.186-516600/22K	166	36	Ø116x230
275.186-611500	115	33	Ø116x230
275.256-508300	83	33	Ø85x230
275.258-410000	100	36	Ø85x245
275.258-411000	110	-	Ø85x245
275.278-513700	137	28.9	Ø100x245
275.389-519900	199	-	Ø116x280
275.399-526500	265	58	Ø136x280
275.525-402800	28	6.6	Ø60x164
275.525-495500	5.5	1.3	Ø60x164
275.525-502100	21	4.3	Ø60x164
275.525-601700	17	3.6	Ø60x164
275.525-701400	14	3.6	Ø60x164
275.525-801100	11	3.3	Ø60x164
275.525-898200	8.2	3	Ø60x164
275.538-405700/221	57	-	Ø65x245
275.545-503300	33	8	Ø75x164
275.545-504000	40	10	Ø75x164
275.546-505800	58	-	Ø75x230
275.546-506800	68	16	Ø75x230
275.546-604800/221	48	-	Ø75x230

Capacitor: polypropylene; three-phase; C9T; KEMET



Manufacturer : KEMET
 Type of capacitor : polypropylene
 Kind of capacitor : three-phase
 Leads : screw terminals
 Application : power factor correction
 Operating temperature : -25...55°C
 Service life : 100000h
 Mounting : M12 screw
 Manufacturer series : C9T

Symbol	Cap. [μF]	Tolerance [%]	Q@50Hz [kVAR]	U _{oper.} [V AC]	I _{oper.} [A]	Body dim. [mm]
C9TS5MD5311AARX	31.1	-5...15	5	415	9	Ø75x160
C9TS5MD5460AARX	46	-5...15	7.5	415	14	Ø75x160
C9TS5MD5615AARX	61.5	-5...15	10	415	18	Ø85x160
C9TS5MD5770AARX	77	-5...15	12.5	415	23	Ø75x230
C9TS5MD5920AARX	92.2	-5...15	15	415	27	Ø85x230
C9TS5MD6108AARX	108	-5...15	17.5	415	32	Ø75x280
C9TS5MD6123AARX	123	-5...15	20	415	26	Ø75x280
C9TS5MD6154AARX	154	-5...15	25	415	45	Ø85x280
C9TS6MD5274AARX	27.4	-5...15	5	440	9	Ø75x160
C9TS6MD5411AARX	41.1	-5...15	7.5	440	13	Ø75x160
C9TS6MD5548AARX	54.8	-5...15	10	440	17	Ø85x160
C9TS6MD5685AARX	68.5	-5...15	12.5	440	21	Ø75x230
C9TS6MD5830AARX	83	-5...15	15	440	26	Ø85x230
C9TS6MD5960AARX	96	-5...15	17.5	440	30	Ø75x280
C9TS6MD6110AARX	110	-5...15	20	440	34	Ø75x280

Capacitor: polypropylene; three-phase; SR PASSIVES



Type of capacitor : polypropylene
 Kind of capacitor : three-phase
 Leads : connectors
 Mounting : M12 screw
 Tolerance : -5...10%
 Operating temperature : -25...55°C
 Application : power factor correction
 Body dim. : Ø60x150mm
 Features : self-healing feature;
 internal discharge resistors;
 internal delta connection;
 overpressure protection system

Symbol	Capacitance [μF]	Reactive power [kVAR]	U _{oper.} [V AC]	I _{oper.} [A]
KTF-1.5/440	8.2	1.5	440	2
KTF-3.5/440	19.2	3.5	440	4.6

Capacitor: polypropylene; ModuloXD; DUCATI ENERGIA



Application : power factor correction
 Kit contents : without washer and nut
 Features : internal delta connection;
 discharge resistors included

Symbol	Kind of capacitor	Cap. [μF]	Q@50Hz [kVAR]	U _{oper.} [V AC]	I _{oper.} [A]	Body dim. [mm]
416.46.0100	three-phase	154	10	240	24.1	Ø100x255
416.46.1020	three-phase	9.9	1.5	400	2.2	Ø65x165
416.46.1030	three-phase	17	2.5	400	3.6	Ø65x165
416.46.1050	three-phase	33	5	400	7.2	Ø75x165
416.46.1080	three-phase	49	7.5	400	10.8	Ø75x255
416.46.1100	three-phase	66	10	400	14.4	Ø75x255
416.46.1150	three-phase	83	12.5	400	18	Ø85x255
416.46.1200	three-phase	100	15	400	21.7	Ø90x255
416.46.1260	three-phase	133	20	400	29	Ø100x255
416.46.1310	three-phase	166	25	400	36.1	Ø116x255
416.46.1360	three-phase	199	30	400	43.3	Ø116x290

Symbol	Kind of capacitor	Cap. [μF]	Q@50Hz [kVAR]	U _{oper.} [V AC]	I _{oper.} [A]	Body dim. [mm]
416.46.2100	three-phase	62	10	415	13.9	Ø75x255
416.46.2150	three-phase	77	12.5	415	17.4	Ø85x255
416.46.2360	three-phase	185	30	415	41.7	Ø116x290
416.46.3023	three-phase	8.2	1.5	440	2	Ø65x165
416.46.3033	three-phase	14	2.5	440	3.3	Ø65x165
416.46.3053	three-phase	27	5	440	6.6	Ø75x165
416.46.3083	three-phase	41	7.5	440	9.8	Ø75x255
416.46.3103	three-phase	35	10	440	13.1	Ø75x255
416.46.3150	three-phase	49	12.5	440	16.4	Ø85
416.46.3153	three-phase	69	12.5	440	16.4	Ø85x255
416.46.3203	three-phase	82	15	440	19.7	Ø90x255
416.46.3263	three-phase	110	20	440	26.2	Ø100x255
416.46.3313	three-phase	133	25	440	32.8	Ø116x255
416.46.3363	three-phase	164	30	440	39.4	Ø116x290
416.46.3050	three-phase	26	5	450	6.4	Ø75x165
416.46.3100	three-phase	52	10	450	12.8	Ø75x255
416.46.3200	three-phase	79	15	450	19.2	Ø90x255
416.46.3260	three-phase	104	20	450	25.7	Ø100x255
416.46.3310	three-phase	131	25	450	32.1	Ø116x255
416.46.3360	three-phase	157	30	450	38.5	Ø116x290
416.46.4150	three-phase	53	-	500	30	Ø85x255
416.46.4360	three-phase	127	-	500	55	Ø116x290
416.46.4050	three-phase	21	5	500	5.8	Ø75x165
416.46.4100	three-phase	43	10	500	11.5	Ø75x255
416.46.4200	three-phase	64	15	500	17.3	Ø90x255
416.46.4260	three-phase	85	20	500	26.6	Ø100x255
416.46.4310	three-phase	106	25	500	28.9	Ø116x255
416.46.5200	three-phase	52	15	525	18	Ø90x255
416.46.5330	three-phase	96	25	525	28.8	Ø119x255
416.46.5370	three-phase	116	30	525	33	Ø116x290
416.46.5150	three-phase	43	-	550	28	Ø85x255
416.46.5260	three-phase	70	-	550	44	Ø100x255
416.46.5360	three-phase	105	30	550	31.5	Ø116x290
416.46.6100	three-phase	22	10	690	10	Ø75x255
416.46.6150	three-phase	28	12.5	690	12.6	Ø85x255
416.46.6200	three-phase	33	15	690	15.1	Ø90x255
416.46.6360	three-phase	67	30	690	25.1	Ø116x290

Capacitor: energy; DUCATI ENERGIA



Manufacturer : DUCATI ENERGIA
 Type of capacitor : energy
 Leads : electrical insulators, screw
 Application : power factor correction

Symbol	Reactive power [VAR]	U _{oper.} [kV AC]	I _{oper.} [A]	C [μF]	Body dim. [mm]
415620037R	-	24	-	0.25	320x145x230
415569000	150	11.55	13	-	350x150x345
215594800	67k	3.64	18.4	16.1	350x150x200
415561500	100k	3.46	28.9	-	350x150x250
415556300	100k	4.35	23	-	350x150x250
415569500	133k	12.12	11	-	350x150x315
415556400	200k	4.35	46	-	350x150x430
415562200	200k	4.55	44	-	-
415567400	275k	7.18	38.3	-	350x150x515
415571000	275k	12.5	22	-	350x150x515
415562100	300k	4.555	65.9	-	-
415643500T	400k	3.3	70	-	685x460x210
415400300	400k	4.35	92	67.1	350x175x700
415553800	400k	4.35	92	-	350x150x680

Module: power regulator; ISKRA



Manufacturer : ISKRA
 Type of module : power regulator
 Body dim. : 144x144x62mm
 Sequence : 1:1:1:1, 1:1:2:2, 1:2:2:2, 1:2:4:4, 1:2:4:8
 Leads : screw terminals
 Input current : 5A

cont. on the next page

Power factor correction

Module: power regulator; ISKRA (cont.)

Operating temperature : -20...60°C

Operating voltage max. : 400V AC

Symbol Number of outputs

PFCMAX12 12

PFCMAX6 6

Module: reactive power regulator; EPCOS



Type of module : reactive power regulator

Manufacturer : EPCOS

Operating voltage max. : 230V AC

Operating temperature : -20...60°C

Symbol	Switching time	Body dim. [mm]	Outputs
B44066R6006E230	1s...20min.	144x144x55	6
B44066R6012E230	1s...20min.	144x144x55	12
B44066R6004E230	1s...255s	100x100x40	4

Module: reactive power regulator; LOVATO ELECTRIC



Manufacturer : LOVATO ELECTRIC

Type of module : reactive power regulator

Communication : optical

Symbol	Outputs	Body dim. [mm]	Operating temp. [°C]
DCRG8	8	144x144x53	-20...70
DCRG8IND	8	144x144x53	-20...70
DCRL5	5	96x96x73	-20...60
DCRL8	8	144x144x53	-20...60

Module: reactive power regulator; DUCATI ENERGIA



DUCATI energia



Manufacturer : DUCATI ENERGIA

Type of module : reactive power regulator

Operating voltage max. : 400V AC

Symbol Number of outputs Communication with PC

R8-485-RADIO 8 RF 868MHz

Contactor: 3-pole; for capacitors; LOVATO ELECTRIC



Manufacturer : LOVATO ELECTRIC

Operating voltage : 240V AC, 440V AC

Application : for capacitors

Contactor : 3-pole

Control voltage : 230V AC

Symbol	Reactive power [kVAR]	Symbol	Reactive power [kVAR]
BFK0910A230	4.5, 9	BFK3200A230	14, 27.5
BFK1210A230	7, 14	BFK3800A230	17, 33
BFK1810A230	9, 17	BFK8000A230	30, 50
BFK2600A230	11, 22		

Contactor: 3-pole; for capacitors; for DIN rail mounting; ISKRA



Manufacturer : ISKRA

Type of contactor : 3-pole

Operating voltage : 240V AC, 440V AC

Mounting : for DIN rail mounting

Application : for capacitors

Control voltage : 230V AC

Symbol	Reactive power [VAR]	Symbol	Reactive power [VAR]
KC12-11	6.7k, 12.5k	KC33-12	20k, 33.3k
KC16-11	8.5, 16.7	KC40-12	25k, 40k
KC20-11	10k, 20k	KC60-12	40k, 60k
KC25-11	15k, 25k		

Contactor: 3-pole; for DIN rail mounting; for capacitors; DUCATI ENERGIA



DUCATI energia

Manufacturer : DUCATI ENERGIA

Type of contactor : 3-pole

Mounting : for DIN rail mounting

Auxiliary contacts : NC, NO

Operating voltage : 240V AC, 440V AC

Application : for capacitors

Control voltage : 230V AC

Symbol	Reactive power [kVAR]	Symbol	Reactive power [kVAR]
315.99.1139	40, 60	315.99.1142	10, 20
315.99.1140	20, 40	315.99.1143	6.7, 12.5
315.99.1141	15, 25		

Accessories: discharge module; ELECTRONICON



always in charge

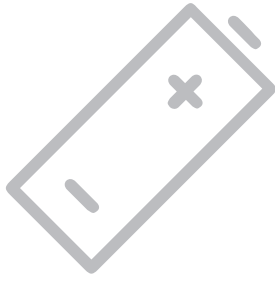


Manufacturer : ELECTRONICON

Capacitor accessories : discharge module

Application : discharging PFC capacitors

Symbol	Resist. [kΩ]	Max. voltage [V AC]	Symbol	Resist. [kΩ]	Max. voltage [V AC]
275.100-10120	120	-	275.105-10100	100	530
275.100-10180	180	-	275.105-10120	120	600
275.100-10082	82	-	275.105-10180	180	720
275.100-10300	300	-	275.106-10120	120	-
275.105-10068	68	440	275.106-10180	180	1k
275.105-10082	82	480	275.106-10300	300	1k



Power sources

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Power supplies	178
Converters	194

9

Power sources

Power supplies

Power supply: switching; for DIN rail; HDR-15; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Number of outputs : 1
 Electrical connection : terminal block
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP

Operating temperature : -30...70°C
 Power consumption without load : <0.3W
 Kind of power supply : for DIN rail

Symbol	Power [W]	U _{out} [V DC]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
HDR-15-5	12	5	2.4	85...264	120...370	17.5x90x54
HDR-15-12	15	12	1.25	85...264	120...370	17.5x90x54
HDR-15-15	15	15	1	85...264	120...370	17.5x90x54
HDR-15-24	15	24	0.63	85...264	120...370	17.5x90x54
HDR-15-48	15	48	0.32	85...264	120...370	17.5x90x54

Power supply: switching; for DIN rail; HDR-30; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Number of outputs : 1
 Electrical connection : terminal block
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP

Operating temperature : -30...70°C
 Power consumption without load : <0.3W
 Kind of power supply : for DIN rail

Symbol	Power [W]	U _{out} [V DC]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
HDR-30-5	15	5	3	85...264	120...370	35x90x54.5
HDR-30-12	24	12	2	85...264	120...370	35x90x54.5
HDR-30-15	30	15	2	85...264	120...370	35x90x54.5
HDR-30-24	36	24	1.5	85...264	120...370	35x90x54.5
HDR-30-48	36	48	0.75	85...264	120...370	35x90x54.5

Power supply: switching; for DIN rail; HDR-60; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Number of outputs : 1
 Electrical connection : terminal block
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP

Operating temperature : -30...70°C
 Power consumption without load : <0.3W
 Kind of power supply : for DIN rail

Symbol	Power [W]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
HDR-60-5	32.5	6.5	85...264	120...370	52.5x90x54.5
HDR-60-12	54	4.5	85...264	120...370	52.5x90x54.5
HDR-60-15	60	4	85...264	120...370	52.5x90x54.5
HDR-60-24	60	2.5	85...264	120...370	52.5x90x54.5
HDR-60-48	60	1.25	85...264	120...370	52.5x90x54.5

Power supply: switching; for DIN rail; HDR-100; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Number of outputs : 1
 Electrical connection : terminal block
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP

Operating temperature : -30...70°C
 Power consumption without load : <0.3W
 Kind of power supply : for DIN rail

Symbol	Power [W]	U _{out} [V DC]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
HDR-100-12	85	12	7.1	85...264	120...370	70x90x54.5
HDR-100-15	92	15	6.13	85...264	120...370	70x90x54.5
HDR-100-24	92	24	3.83	85...264	120...370	70x90x54.5
HDR-100-48	92	48	1.92	85...264	120...370	70x90x54.5

Power supply: switching; for DIN rail; HDR-150; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Number of outputs : 1
 Electrical connection : terminal block
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP

Operating temperature : -30...70°C
 Power consumption without load : <0.3W
 Kind of power supply : for DIN rail

Symbol	Power [W]	U _{out} [V DC]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
HDR-150-12	135.6	12	11.3	85...264	120...370	105x90x54.5
HDR-150-15	142.5	15	9.5	85...264	120...370	105x90x54.5
HDR-150-24	150	24	6.25	85...264	120...370	105x90x54.5
HDR-150-48	153.6	48	3.2	85...264	120...370	105x90x54.5

Power supply: switching; for DIN rail; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Number of outputs : 1
 Electrical connection : terminal block
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Kind of power supply : for DIN rail

Symbol	Power [W]	Output voltage range [V DC]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
MDR-40-5	30	5...6	6	85...264	120...370	40x90x100
MDR-40-12	40	12...15	3.33	85...264	120...370	40x90x100
MDR-40-24	40	24...30	1.7	85...264	120...370	40x90x100
MDR-40-48	40	48...56	0.83	85...264	120...370	40x90x100
MDR-60-5	50	5...6	10	85...264	120...370	40x90x100
MDR-60-12	60	12...15	5	85...264	120...370	40x90x100
MDR-60-24	60	24...30	2.5	85...264	120...370	40x90x100
MDR-60-48	60	48...56	1.25	85...264	120...370	40x90x100

Power supply: switching; for DIN rail mounting; XDR-120E; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Manufacturer series : XDR-120E
 Kind of power supply : for DIN rail
 Kind of case : slim
 Electrical connection : screw terminals
 Power : 120W
 U_{sup} : 85...264V AC
 U_{sup} : 120...370V DC
 Operating temperature : -40...70°C
 Body dim. : 30x125.2x116mm
 Additional functions : output voltage correctness indication (NO contact)
 Protection : anti-overload OLP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Symbol	U_{out} [V DC]	Output voltage range [V DC]	I_{out} [A]	Efficiency [%]
XDR-120E-12	12	12...15	0...10	89
XDR-120E-24	24	24...29	0...5	91
XDR-120E-36	36	36...42	0...3.33	91
XDR-120E-48	48	48...55	0...2.5	91

Power supply: switching; for DIN rail mounting; XDR-480E; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Manufacturer series : XDR-480E
 Power : 480W
 U_{sup} : 85...264V AC
 U_{sup} : 120...370V DC
 Electrical connection : screw terminals
 Operating temperature : -40...70°C
 Kind of case : slim
 Kind of power supply : for DIN rail
 Body dim. : 48x125.2x125mm
 Additional functions : PFC;
 parallel function;
 output voltage correctness indication (NO contact)

Protection : anti-overload OLP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Symbol	U_{out} [V DC]	Output voltage range [V DC]	I_{out} [A]	Efficiency [%]
XDR-480E-12	12	12...15	0...30	94
XDR-480E-24	24	24...29	0...20	95.5
XDR-480E-36	36	36...42	0...13.3	95.5
XDR-480E-48	48	48...55	0...10	96

Power supply: switching; for DIN rail mounting; XDR-240E; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Electrical connection : screw terminals
 Operating temperature : -40...70°C
 Manufacturer series : XDR-240E
 Kind of power supply : for DIN rail
 Power : 240W
 U_{sup} : 85...264V AC
 U_{sup} : 120...370V DC
 Body dim. : 40x125.2x116mm
 Kind of case : slim
 Protection : anti-overload OLP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Symbol	U_{out} [V DC]	Output voltage range [V DC]	I_{out} [A]	Efficiency [%]
XDR-240E-12	12	12...15	0...20	94
XDR-240E-24	24	24...29	0...10	95.2
XDR-240E-36	36	36...42	0...6.66	95.5
XDR-240E-48	48	48...55	0...5	95.5

Power supply: switching; for DIN rail, slim; NDR-120; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Number of outputs : 1
 Electrical connection : terminal block
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Additional functions : output voltage correctness indication
 Operating temperature : -20...70°C

Symbol	Power [W]	U_{out} [V DC]	I_{out} [A]	U_{sup} [V AC]	U_{sup} [V DC]	Body dim. [mm]	Output voltage range [V DC]
NDR-120-12	120	12	10	90...264	127...370	40x125.2x113.5	12...14
NDR-120-24	120	24	5	90...264	127...370	40x125.2x113.5	24...28
NDR-120-48	120	48	2.5	90...264	127...370	40x125.2x113.5	48...55

Power supply: switching; for DIN rail, slim; NDR-240; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Number of outputs : 1
 Electrical connection : terminal block
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Additional functions : active PFC;
 output voltage correctness indication
 Operating temperature : -20...70°C

cont. on the next page

Power supplies

Power supply: switching; for DIN rail, slim; NDR-240; MEAN WELL (cont.)

Symbol	Power [W]	U _{out} [V DC]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]	Output voltage range [V DC]
NDR-240-24	240	24	10	90...264	127...370	63x125.2x113.5	24...28
NDR-240-48	240	48	5	90...264	127...370	63x125.2x113.5	48...55

Power supply: switching; for DIN rail, slim; NDR-480; MEAN WELL



Manufacturer : MEAN WELL
Type of power supply : switching
Mounting : for DIN rail mounting
Number of outputs : 1
Electrical connection : terminal block
Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP
Additional functions : active PFC; output voltage correctness indication

Operating temperature : -20...70°C

Symbol	U _{out} [V DC]	I _{out} [A]	Power [W]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]	Output voltage range [V DC]
NDR-480-24	24	20	480	90...264	127...370	85.5x125.2x128.5	24...28
NDR-480-48	48	10	480	90...264	127...370	85.5x125.2x128.5	48...55

Power supply: switching; for DIN rail; TDR-240; MEAN WELL



Manufacturer : MEAN WELL
Type of power supply : switching
Mounting : for DIN rail mounting
Number of outputs : 1
Electrical connection : terminal block
Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP
Additional functions : active PFC; output voltage correctness indication (NO contact)

Operating temperature : -30...70°C

Kind of power supply : for DIN rail

Voltage between phases (for three phase system) : 3 x 340...550V AC

Symbol	Power [W]	Output voltage [V DC]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
TDR-240-24	240	24	10	480...780	63x125.2x113.5	
TDR-240-48	240	48	5	480...780	63x125.2x113.5	

Power supply: switching; for DIN rail; TDR-480; MEAN WELL



Manufacturer : MEAN WELL
Type of power supply : switching
Mounting : for DIN rail mounting
Number of outputs : 1
Electrical connection : terminal block
Protection : anti-overvoltage OVP, short circuit protection SCP, overheating OTP
Additional functions : active PFC; output voltage correctness indication (NO contact)

Operating temperature : -30...70°C

Kind of power supply : for DIN rail

Voltage between phases (for three phase system) : 3 x 340...550V AC

Symbol	Power [W]	Output voltage [V DC]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
TDR-480-24	480	24	20	480...780	85.5x125.2x128.5	
TDR-480-48	480	48	10	480...780	85.5x125.2x128.5	

Power supply: switching; for DIN rail; TDR-960; MEAN WELL



Manufacturer : MEAN WELL
Type of power supply : switching
Mounting : for DIN rail mounting
Number of outputs : 1
Electrical connection : terminal block
Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Additional functions

: active PFC; output voltage correctness indication (NO contact)

Operating temperature

: -30...70°C

Kind of power supply

: for DIN rail

Voltage between phases (for three phase system) : 3 x 340...550V AC

Symbol	Power [W]	Output voltage [V DC]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
TDR-960-24	960	24	40	480...780	110x125.2x150	
TDR-960-48	960	48	20	480...780	110x125.2x150	

Power supply: switching; for DIN rail; TDK-LAMBDA



Manufacturer : TDK-LAMBDA
Mounting : for DIN rail mounting
Kind of power supply : for DIN rail

Symbol	Manufacturer series	Power [W]	U _{sup} [V AC]	Output voltage [V DC]	I _{out} [A]
DRB15-24-1	DRB	15	85...264	24	0.63
DRB30-12-1	DRB	30	85...264	12	2.5
DRB30-24-1	DRB	30	85...264	24	1.25
DRB50-12-1	DRB	50	85...264	12	3.4
DRB50-24-1	DRB	50	85...264	24	2.1
DRB100-24-1	DRB	100	85...264	24	4.2
DRB120-12-1	DRB	120	85...264	12	10
DRB120-24-1	DRB	120	85...264	24	5
DRB240-24-1	DRB	240	85...264	24	10
DRB480-24-1	DRB	480	90...264	24	20
DRB120-12-3-A0	DRB	120	350...575	12	10
DRB120-12-3-A1	DRB	120	350...575	12	10
DRB120-24-3-A0	DRB	120	350...575	24	5
DRB120-24-3-A1	DRB	120	350...575	24	5
DRB240-24-3-A0	DRB	240	350...575	24	10
DRB240-24-3-A1	DRB	240	350...575	24	10
DRF120-24-1	DRF	120	85...264	24	5
DRF240-24-1	DRF	240	85...264	24	10
DRF480-24-1	DRF	480	85...264	24	20
DRF960-24-1	DRF	960	180...264	24	40
DRL10-12-1	DRL	10	85...264	12	0.84
DRL10-24-1	DRL	10	85...264	24	0.42
DRL30-12-1	DRL	30	85...264	12	2.1
DRL30-24-1	DRL	30	85...264	24	1.25
DRL60-12-1	DRL	60	85...264	12	4.5
DRL60-24-1	DRL	60	85...264	24	2.5
DRL100-24-1	DRL	100	85...264	24	4.2
DRL100-24-1/C2	DRL	100	85...264	24	3.67

Power supply: switching; for DIN rail; TDK-LAMBDA; D1SE



TDK-Lambda

Manufacturer : TDK-LAMBDA
 Type of power supply : switching
 Kind of power supply : for DIN rail
 Manufacturer series : D1SE
 Mounting : for DIN rail mounting
 U_{insul} : 5000V DC
 U_{sup} : 93...300V DC
 U_{sup} : 90...264V AC
 Operating temperature : -25...70°C
 Electrical connection : Push-in, push-in terminals
 IP rating : IP20
 Protection : over current OCP, undervoltage UVP, anti-overvoltage OVP, overheating OTP

Symbol	Power [W]	U _{out} [V DC]	Output voltage range [V DC]	I _{out} [A]	Efficiency [%]
D1SE120-24-A3	120	24	22.5...29	0...5	92
D1SE120-24-A4	120	24	22.5...29	0...5	92
D1SE120-24-A5	120	24	22.5...29	0...5	92
D1SE240-24-A3	240	24	22.5...29	0...10	94.5
D1SE240-24-A4	240	24	22.5...29	0...10	94.5
D1SE240-24-A5	240	24	22.5...29	0...10	94.5
D1SE480-24-A3	480	24	22.5...29	0...20	95.1
D1SE480-24-A4	480	24	22.5...29	0...20	95.1
D1SE480-24-A5	480	24	22.5...29	0...20	95.1

Power supply: switching; for DIN rail mounting; RACPRO1-T; RECOM



RECOM

Manufacturer : RECOM
 Voltage between phases (for three phase system) : 3 x 320...575V AC
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Electrical connection : push-in terminals
 Kind of power supply : for DIN rail
 IP rating : IP20
 Operating temperature : -40...60°C
 Insulation voltage : 3.5kV
 U_{insul} : 5kV DC
 Additional functions : DC-OK LED; parallel function; power boost; battery charger
 Protection : over current OCP, anti-overvoltage OVP, short circuit protection SCP

Symbol	Power [W]	U _{out} [V DC]	I _{out} [A]	Output voltage range [V DC]	Efficiency [%]
RACPRO1-T240/24	240	24	10	24...28	94.1
RACPRO1-T480/24	480	24	20	24...28	95
RACPRO1-T480/48	480	48	10	48...56	94

Symbol	Power [W]	U _{out} [V DC]	I _{out} [A]	Output voltage range [V DC]	Efficiency [%]
RACPRO1-T960/24	960	24	40	24...28	96
RACPRO1-T960/48	960	48	20	48...56	96

Power supply: switching; for DIN rail; PRO ECO; WEIDMÜLLER

Weidmüller



Manufacturer : WEIDMÜLLER
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Number of outputs : 1
 Electrical connection : terminal block
 Protection : short circuit protection SCP, overheating OTP
 Kind of power supply : for DIN rail
 Manufacturer series : PRO ECO

Symbol	Power [W]	Output voltage [V DC]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
PROECO-72W12V6A	72	12	6	85...264	80...370	34x125x100
PROECO-72W24V3A	72	24	3	85...264	80...370	34x125x100
PROECO-120W12V10A	120	12	10	85...264	80...370	40x125x100
PROECO-120W24V5A	120	24	5	85...264	80...370	40x125x100
PROECO-240W24V10A	240	24	10	85...264	80...370	60x125x100
PROECO-240W48V5A	240	48	5	85...264	80...370	60x125x100
PROECO-480W24V20A	480	24	20	85...264	80...370	100x125x120
PROECO-480W48V10A	480	48	10	85...264	80...370	100x125x120
PROECO-960W24V40A	960	24	40	85...264	80...370	160x125x120

Power supply: switching; for DIN rail; PRO ECO 3; WEIDMÜLLER

Weidmüller



Manufacturer : WEIDMÜLLER
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Number of outputs : 1
 Electrical connection : terminal block
 Operating temperature : -25...55°C
 Output voltage : 24V DC
 Kind of power supply : for DIN rail
 Manufacturer series : PRO ECO 3
 Voltage between phases (for three phase system) : 3 x 400...500V AC

Symbol	Power [W]	I _{out} [A]	U _{sup} [V DC]	Body dim. [mm]
PROECO3-120W24V5A	120	5	450...800	40x125x100
PROECO3-240W24V10A	240	10	450...800	60x125x100
PROECO3-480W24V20A	480	20	450...800	100x125x120
PROECO3-960W24V40A	960	40	450...800	160x125x120

Power supply: switching; for DIN rail; Promax; WEIDMÜLLER

Weidmüller



Manufacturer : WEIDMÜLLER
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Electrical connection : terminal block
 Protection : short circuit protection SCP
 Supply voltage : 85...277V AC
 Supply voltage : 80...370V DC
 Operating temperature : -25...70°C
 Kind of power supply : for DIN rail
 Manufacturer series : Promax

Symbol	Power [W]	Output voltage [V DC]	I _{out} [A]	Body dim. [mm]
PROMAX-72W12V6A	72	12	6	32x130x125
PROMAX-72W24V3A	72	24	3	32x130x125
PROMAX-120W12V10A	120	12	10	40x130x125
PROMAX-120W24V5A	120	24	5	40x130x125

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Power supplies

Power supply: switching; for DIN rail; Promax; WEIDMÜLLER (cont.)

Symbol	Power [W]	Output voltage [V DC]	I _{out} [A]	Body dim. [mm]
PROMAX-240W24V10A	240	24	10	60x130x125
PROMAX-480W24V20A	480	24	20	90x130x150
PROMAX-960W24V40A	960	24	40	140x130x150

Power supply: switching; for DIN rail; Promax3; WEIDMÜLLER



Weidmüller

Manufacturer : WEIDMÜLLER
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Number of outputs : 1
 Electrical connection : terminal block
 Protection : short circuit protection SCP
 Operating temperature : -25...70°C
 Output voltage : 24V DC
 Kind of power supply : for DIN rail
 Manufacturer series : Promax3
 Voltage between phases (for three phase system) : 3 x 320...575V AC

Symbol	Power [W]	I _{out} [A]	Body dim. [mm]
PROMAX3-120W24V5A	120	5	40x130x125
PROMAX3-240W24V10A	240	10	60x130x125
PROMAX3-480W24V20A	480	20	70x130x150
PROMAX3-960W24V40A	960	40	140x130x150

Power supply: switching; for DIN rail; OMRON



OMRON

Manufacturer : OMRON
 Type of power supply : switching
 Number of outputs : 1
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP
 Kind of power supply : for DIN rail

Symbol	Mounting	Manufacturer series	Power [W]	U _{sup} [V AC]	Output voltage [V DC]	I _{out} [A]
S8VK-G01512	for DIN rail mounting	S8VK-G	15	85...264	12	1.2
S8VK-G01524	for DIN rail mounting	S8VK-G	15	85...264	24	0.65
S8VK-G03012	for DIN rail mounting	S8VK-G	30	85...264	12	2.5
S8VK-G03024	for DIN rail mounting	S8VK-G	30	85...264	24	1.3
S8VK-G06012	for DIN rail mounting	S8VK-G	60	85...264	12	4.5
S8VK-G06024	for DIN rail mounting	S8VK-G	60	85...264	24	2.5
S8VK-G12024	for DIN rail mounting	S8VK-G	120	85...264	24	5
S8VK-G24024	for DIN rail mounting	S8VK-G	240	85...264	24	10
S8VK-G48024	for DIN rail mounting	S8VK-G	480	85...264	24	20
S8VK-S03024	for DIN rail mounting	S8VK-S	30	85...264	24	1.3
S8VK-S06024	for DIN rail mounting	S8VK-S	60	85...264	24	2.5
S8VK-S12024	for DIN rail mounting	S8VK-S	120	85...264	24	5
S8VK-S24024	for DIN rail mounting	S8VK-S	240	85...264	24	10
S8VK-S48024	for DIN rail mounting	S8VK-S	480	85...264	24	20
S8VK-WB24024	for DIN rail mounting	S8VK-WB	240	320...576	24	10
S8VK-WB48024	for DIN rail mounting	S8VK-WB	480	320...576	24	20
S8VK-WB96024	for DIN rail mounting	S8VK-WB	960	320...576	24	40

Power supply: switching; for DIN rail; AIMTEC



aimtec
Your Power Partner

Manufacturer : AIMTEC
 Mounting : for DIN rail mounting
 Electrical connection : terminal block
 Type of power supply : switching
 Kind of power supply : for DIN rail

Symbol	Manufacturer series	Power [W]	U _{sup} [V AC]	Output voltage [V DC]
AMED15-12SNZ	AMED15-NZ	15	85...264	12
AMED30-12SNZ	AMED30-NZ	24	85...264	12
AMED60-12SNZ	AMED60-NZ	60	85...264	12
AMED60-24SNZ	AMED60-NZ	60	85...264	24
AMED75-12SNZ	AMED75-NZ	75	85...264	12
AMED75-24SJZ	AMED75-JZ	75	90...264	24
AMED100-12SNZ	AMED100-NZ	100	85...264	12
AMED120-12SNZ	AMED120-NZ	120	90...264	12

Power supply: switching; for DIN rail; SCHNEIDER ELECTRIC



Schneider Electric

Manufacturer : SCHNEIDER ELECTRIC
 Type of power supply : switching
 Mounting : for DIN rail mounting
 Electrical connection : terminal block
 Kind of power supply : for DIN rail

Symbol	Manufacturer series	Power [W]	U _{sup} [V AC]	U _{out} [V DC]	I _{out} [A]
ABL8RPS24030	Phaseo	72	85...132/170...550	24	3
ABL8RPS24050	Phaseo	120	85...132/170...550	24	5
ABL8RPS24100	Phaseo	240	85...132/170...550	24	10
ABL8WPS24200	Phaseo	480	320...550	24	20
ABL8WPS24400	Phaseo	960	320...550	24	40
ABLM1A24004	Phaseo	10	90...264	24	0.42
ABLM1A24006	Phaseo	15	90...264	24	0.625
ABLM1A24012	Phaseo	30	90...264	24	1.25
ABLM1A24025	Phaseo	60	90...264	24	2.5
ABLS1A24021	Phaseo	50	85...264	24	2.1
ABLS1A24031	Phaseo	75	85...264	24	3.1
ABLS1A24038	Phaseo	90	85...264	24	3.8
ABLS1A24050	Phaseo	120	85...264	24	5

Power supply: switching; for DIN rail; PS5R; IDEC



IDEC

Manufacturer : IDEC
 U_{sup} : 110V AC/230V AC
 U_{sup} : 100...370V DC
 Kind of power supply : for DIN rail
 Manufacturer series : PS5R

Symbol	Power [W]	Output voltage [V DC]	I _{out} [A]
PS5R-VB05	10	5	2
PS5R-VB12	15	12	1.3
PS5R-VB24	15	24	0.65
PS5R-VC12	30	12	2.5
PS5R-VC24	30	24	1.3
PS5R-VD24	60	24	2.5
PS5R-VE24	90	24	3.75
PS5R-VF24	120	24	5
PS5R-VG24	240	24	10

Module: UPS; for DIN rail mounting; TDK-LAMBDA; DUSH960-1248



TDK-Lambda

Manufacturer : TDK-LAMBDA
 Mounting : for DIN rail mounting
 Type of module : UPS
 Indication : LED
 Kind of power supply : for DIN rail
 Electrical connection : push-in terminals
 Power : 960W
 Manufacturer series : DUSH960-1248
 Operating temperature : -25...70°C
 Body dim. : 54x131.2x115mm
 Protection : over current OCP, anti-overvoltage OVP, overheating OTP

Symbol	U _{sup}	U _{out}	I _{out}	Efficiency
	[V DC]	[V DC]	[A]	
DUSH960-1248-0M	12...48	12...48	20	98
DUSH960-1248-1M	12...48	12...48	20	98

Power supply: switching; buffer, for DIN rail; MEAN WELL



Manufacturer : MEAN WELL
 Kind of power supply : buffer, for DIN rail
 Mounting : for DIN rail mounting
 Number of outputs : 2
 Electrical connection : terminal block
 Protection : battery polarity, anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, discharge below, overheating OTP
 Additional functions : LED status indicator; UPS

Symbol	Operating temperature [°C]	Power [W]	Output voltage [V DC]	I _{out}	I _{out2}	Body dim. [mm]
				[A]	[A]	
DRC-40A	-30...70	40.02	13.8	1.9	1	40x90x100
DRC-60A	-30...70	59.34	13.8	2.8	1.5	40x90x100
DRC-100A	-30...70	96.6	13.8	4.5	2.5	55x90x100
DRC-180A	-20...70	180	13.8	9	4	63x125.2x115
DRC-40B	-30...70	40.02	27.6	0.95	0.5	40x90x100
DRC-60B	-30...70	59.34	27.6	1.4	0.75	40x90x100
DRC-100B	-30...70	96.6	27.6	2.25	1.25	55x90x100
DRC-180B	-20...70	180	27.6	4.5	2	63x125.2x115

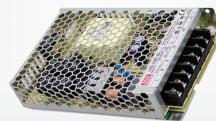
Power supply: switching; for building in, modular; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : for building in, modular
 Number of outputs : 1
 Electrical connection : terminal block
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP
 Operating temperature : -25...70°C

Symbol	Power [W]	Out. volt. [V DC]	Out. curr. [A]	Body dim. [mm]	Sup. volt. [V AC]	Sup. volt. [V DC]
RS-25-5	25	5	5	78x51x28	88...264	125...373
RS-25-12	25	12	2.1	78x51x28	88...264	125...373
RS-25-24	25	24	1.1	78x51x28	88...264	125...373
RS-35-5	35	5	7	99x82x36	88...264	125...373
RS-35-12	35	12	3	99x82x36	88...264	125...373
RS-35-24	35	24	1.5	99x82x36	88...264	125...373
RS-50-5	50	5	10	99x97x36	88...264	125...373
RS-50-12	50	12	4.2	99x97x36	88...264	125...373
RS-50-24	50	24	2.2	99x97x36	88...264	125...373
RS-75-5	60	5	12	129x97x38	88...264	125...373
RS-75-12	75	12	6	129x97x38	88...264	125...373
RS-75-24	75	24	3.2	129x97x38	88...264	125...373
RS-100-5	100	5	16	97x159x38	88...264	125...373
RS-100-12	100	12	8.5	159x97x38	88...264	125...373
RS-100-24	100	24	4.5	159x97x38	88...264	125...373
RS-150-5	150	5	26	199x98x38	88...264	248...373
RS-150-12	150	12	12.5	199x98x38	88...264	248...373
RS-150-24	150	24	6.5	199x98x38	88...264	248...373

Power supply: switching; for building in, modular; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : for building in, modular
 Number of outputs : 1
 Electrical connection : terminal block
 Operating temperature : -30...70°C

Symbol	Power [W]	Out. volt. [V DC]	Out. curr. [A]	Supply voltage [V AC]	Supply voltage [V DC]
LRS-35-5	35	5	7	85...264	120...373
LRS-35-12	36	12	3	85...264	120...373
LRS-35-15	36	15	2.4	85...264	120...373
LRS-35-24	36	24	1.5	85...264	120...373
LRS-50-5	50	5	10	85...264	120...373
LRS-50-12	50.4	12	4.2	85...264	120...373
LRS-50-15	51	15	3.4	85...264	120...373
LRS-50-24	52.8	24	2.2	85...264	120...373
LRS-75-5	70	5	14	85...264	120...373
LRS-75-12	72	12	6	85...264	120...373
LRS-75-15	75	15	5	85...264	120...373
LRS-75-24	76.8	24	3.2	85...264	120...373
LRS-100-5	90	5	18	85...264	120...373
LRS-100-12	102	12	8.5	85...264	120...373
LRS-100-15	105	15	7	85...264	120...373
LRS-100-24	108	24	4.5	85...264	120...373
LRS-150-12	150	12	12.5	85...132/170...264	240...370
LRS-150-15	150	15	10	85...132/170...264	240...370
LRS-150-24	156	24	6.5	85...132/170...264	240...370
LRS-150F-5	110	5	22	85...264	120...373
LRS-150F-12	150	12	12.5	85...264	120...373
LRS-150F-15	150	15	10	85...264	120...373
LRS-150F-24	156	24	6.5	85...264	120...373

Information: more products from this series available on www.tme.eu.

Power supply: switching; for building in, modular; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : for building in, modular
 Number of outputs : 1
 Electrical connection : terminal block
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Symbol	Power [W]	Out. volt. [V DC]	Out. curr. [A]	Sup. volt.	Sup. volt.	Body dim. [mm]
				[V AC]	[V DC]	
RSP-500-5	450	5	90	85...264	120...370	230x127x40.5
RSP-500-12	500.4	12	41.7	85...264	120...370	230x127x40.5
RSP-500-24	504	24	21	85...264	120...370	230x127x40.5

cont. on the next page

Power supplies

Power supply: switching; for building in, modular; MEAN WELL (cont.)

Symbol	Power [W]	Out. volt. [V DC]	Out. curr. [A]	Sup. volt. [V AC]	Sup. volt. [V DC]	Body dim. [mm]
RSP-750-5	500	5	100	90...264	127...370	250x127x41
RSP-750-12	750	12	62.5	90...264	127...370	250x127x41
RSP-750-24	751.2	24	31.3	90...264	127...370	250x127x41
RSP-1000-12	720	12	60	90...264	127...370	295x127x41
RSP-1000-24	960	24	40	90...264	127...370	295x127x41
RSP-1500-5	1200	5	240	90...264	127...370	278x127x83.5
RSP-1500-12	1500	12	125	90...264	127...370	278x127x83.5
RSP-1500-24	1512	24	63	90...264	127...370	278x127x83.5
RSP-1600-12	1500	12	125	90...264	127...370	300x85x41
RSP-1600-24	1608	24	67	90...264	127...370	300x85x41
RSP-2000-12	1200	12	100	90...264	127...370	295x127x41
RSP-2000-24	1920	24	80	90...264	127...370	295x127x41
RSP-2400-12	2000.4	12	166.7	180...264	254...370	278x177.8x63.5
RSP-2400-24	2400	24	100	180...264	254...370	278x177.8x63.5
RSP-3000-12	2400	12	200	180...264	254...370	278x177.8x63.5
RSP-3000-24	3000	24	125	180...264	254...370	278x177.8x63.5

Power supply: switching; for building in, modular; MEAN WELL



Manufacturer : MEAN WELL
Type of power supply : switching
Kind of power supply : for building in, modular
Number of outputs : 1
Electrical connection : terminal block
Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP
Additional functions : fitted with air cooling fans; active PFC; parallel function

Symbol	Power [W]	Out. volt. [V DC]	Out. curr. [A]	Sup. volt. [V AC]	Sup. volt. [V DC]	Body dim. [mm]
PSP-600-5	400	5	80	90...264	127...370	170x120x93
PSP-600-12	600	12	50	90...264	127...370	170x120x93
PSP-600-13.5	600	13.5	44.5	90...264	127...370	170x120x93
PSP-600-15	600	15	40	90...264	127...370	170x120x93
PSP-600-24	600	24	25	90...264	127...370	170x120x93
PSP-600-27	600	27	22.2	90...264	127...370	170x120x93
PSP-600-48	600	48	12.5	90...264	127...370	170x120x93
PSPA-1000-12	960	12	80	90...264	127...370	170x120x93
PSPA-1000-15	960	15	64	90...264	127...370	170x120x93
PSPA-1000-24	1000	24	42	90...264	127...370	170x120x93
PSPA-1000-48	1000	48	21	90...264	127...370	170x120x93

Power supply: switching; for building in, modular; RSP-320; MEAN WELL



Manufacturer : MEAN WELL
Type of power supply : switching
Kind of power supply : for building in, modular
Number of outputs : 1
Electrical connection : terminal block
Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP
Additional functions : active PFC
Operating temperature : -30...70°C

Symbol	Power [W]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]	Efficiency [%]	U _{out} [V DC]	I _{out} [A]
RSP-320-2.5	150	88...264	124...370	215x115x30	75.5	2.35...2.85	60
RSP-320-3.3	198	88...264	124...370	215x115x30	79.5	2.97...3.8	60
RSP-320-4	240	88...264	124...370	215x115x30	81	3.7...4.3	60
RSP-320-5	300	88...264	124...370	215x115x30	83	4.5...5.5	60
RSP-320-7.5	300	88...264	124...370	215x115x30	88	6...9	40
RSP-320-12	320.4	88...264	124...370	215x115x30	88	10...13.2	26.7
RSP-320-13.5	321.3	88...264	124...370	215x115x30	88	12...15	23.8
RSP-320-15	321	88...264	124...370	215x115x30	88.5	13.5...18	21.4
RSP-320-24	321.6	88...264	124...370	215x115x30	89	20...26.4	13.4
RSP-320-27	321.3	88...264	124...370	215x115x30	89	26...31.5	11.9
RSP-320-36	320.4	88...264	124...370	215x115x30	89.5	32.4...39.6	8.9

Symbol	Power [W]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]	Efficiency [%]	U _{out} [V DC]	I _{out} [A]
RSP-320-48	321.6	88...264	124...370	215x115x30	90	41...56	6.7

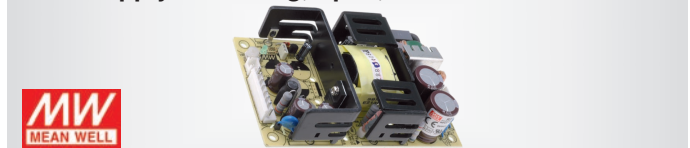
Power supply: switching; for building in, modular; MEAN WELL



Manufacturer : MEAN WELL
Type of power supply : switching
Kind of power supply : for building in, modular
Number of outputs : 1
Electrical connection : terminal block
Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Symbol	Power [W]	U _{out} [V DC]	I _{out} [A]	Efficiency [%]	Body dim. [mm]
MSP-100-3.3	66	3.3	20	78	159x97x38
MSP-100-5	85	5	17	83	159x97x38
MSP-100-7.5	101.3	7.5	13.5	84	159x97x38
MSP-100-12	102	12	8.5	87.5	159x97x38
MSP-100-15	105	15	7	88	159x97x38
MSP-100-24	108	24	4.5	88.5	159x97x38
MSP-100-36	104.4	36	2.9	89	159x97x38
MSP-100-48	105.6	48	2.2	90	159x97x38
MSP-200-3.3	132	3.3	40	80	199x98x38
MSP-200-5	175	5	35	84	199x98x38
MSP-200-7.5	200.3	7.5	26.7	86	199x98x38
MSP-200-12	200.4	12	16.7	88	199x98x38
MSP-200-15	201	15	13.4	88	199x98x38
MSP-200-24	201.6	24	8.4	88	199x98x38
MSP-200-36	205.2	36	5.7	89	199x98x38
MSP-200-48	206.4	48	4.3	89	199x98x38
MSP-300-3.3	198	3.3	60	80	199x105x41
MSP-300-5	300	5	60	82	199x105x41
MSP-300-7.5	300	7.5	40	86	199x105x41
MSP-300-12	324	12	27	88	199x105x41
MSP-300-15	330	15	22	88	199x105x41
MSP-300-24	336	24	14	87	199x105x41
MSP-300-36	324	36	9	88	199x105x41
MSP-300-48	336	48	7	89	199x105x41
MSP-450-3.3	297	3.3	90	80	218x105x41
MSP-450-5	450	5	90	83	218x105x41
MSP-450-7.5	450	7.5	60	86.5	218x105x41
MSP-450-12	450	12	37.5	88	218x105x41
MSP-450-15	450	15	30	89	218x105x41
MSP-450-24	451.2	24	18.8	88	218x105x41
MSP-450-36	450	36	12.5	89	218x105x41
MSP-450-48	456	48	9.5	89.5	218x105x41
MSP-600-3.3	396	3.3	120	78.5	218x105x63.5
MSP-600-5	600	5	120	82	218x105x63.5
MSP-600-12	636	12	53	88	218x105x63.5
MSP-600-15	645	15	43	88	218x105x63.5
MSP-600-24	648	24	27	88	218x105x63.5
MSP-600-36	630	36	17.5	89	218x105x63.5
MSP-600-48	624	48	13	89	218x105x63.5
MSP-1000-12	960	12	80	91.5	218x105x63.5
MSP-1000-24	1000	24	42	93	218x105x63.5
MSP-1000-48	1000	48	21	94	218x105x63.5

Power supply: switching; open; MEAN WELL



Manufacturer : MEAN WELL
Type of power supply : switching
Kind of power supply : open
Number of outputs : 1
Electrical connection : plug with 3,96mm pitch

Symbol	Power [W]	Out. volt. [V DC]	Out. curr. [A]	Supply voltage [V AC]	Body dim. [mm]
RPS-30-5	30	5	6	80...264	76.2x50.8x24
RPS-30-12	30	12	2.5	80...264	76.2x50.8x24
RPS-30-24	30	24	1.25	80...264	76.2x50.8x24
RPS-45-5	40	5	8	80...264	76.2x50.8x24
RPS-45-12	45.6	12	3.8	80...264	76.2x50.8x24

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Power supply: switching; open; MEAN WELL (cont.)

Symbol	Power [W]	Out. volt. [V DC]	Out. curr. [A]	Supply voltage [V AC]	Body dim. [mm]
RPS-45-24	45.6	24	1.9	80...264	76.2x50.8x24
RPS-60-5	50	5	10	90...264	101.6x50.8x29
RPS-60-12	60	12	5	90...264	101.6x50.8x29
RPS-60-24	60	24	2.5	90...264	101.6x50.8x29
RPS-65-5	50	5	10	80...264	76.2x50.8x24
RPS-65-12	65	12	5.42	80...264	76.2x50.8x24
RPS-65-24	65	24	2.71	80...264	76.2x50.8x24
RPS-75-5	70	5	14	90...264	127x76.2x31
RPS-75-12	75.6	12	6.3	90...264	127x76.2x31
RPS-75-24	76.8	24	3.2	90...264	127x76.2x31
RPS-120-12	120	12	10	80...264	101.6x50.8x29
RPS-120-15	120	15	8	80...264	101.6x50.8x29
RPS-120-24	120	24	5	80...264	101.6x50.8x29
RPS-160-5	160	5	30	90...264	127x76.2x34.6
RPS-160-12	160	12	12.9	90...264	127x76.2x34.6
RPS-160-24	160	24	6.5	90...264	127x76.2x34.6
RPSG-160-5	160	5	30	90...264	127x76.2x34.6
RPSG-160-12	160	12	12.9	90...264	127x76.2x34.6
RPSG-160-24	160	24	6.5	90...264	127x76.2x34.6
RPS-200-12	200	12	16.7	80...264	101.6x50.8x29
RPS-200-24	200	24	8.4	80...264	101.6x50.8x29
RPS-300-12	300	12	25	90...264	127x76.2x35
RPS-300-24	300	24	12.5	90...264	127x76.2x35
RPS-400-12	400	12	33.3	80...264	127x76.2x35
RPS-400-24	400	24	16.7	80...264	127x76.2x35
RPS-500-12	499.2	12	41.6	80...264	127x76x40
RPS-500-24	499.5	24	20.8	80...264	127x76x40

Power supply: switching; open; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : open
 Number of outputs : 1
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Operating temperature : -30...70°C
 Power consumption without load : <0.5W

Symbol	Power [W]	Out. volt. [V DC]	Max. current [A]	Sup. volt. [V AC]	Sup. volt. [V DC]	Body dim. [mm]
EPP-100-12	100	12	8.5	90...264	127...370	101.6x50.8x29
EPP-100-24	100	24	4.2	90...264	127...370	101.6x50.8x29
EPP-150-12	150	12	12.5	90...264	127...370	101.6x50.8x29
EPP-150-24	150	24	6.25	90...264	127...370	101.6x50.8x29
EPP-200-12	200	12	16.7	90...264	127...370	101.6x50.8x29
EPP-200-24	200	24	8.4	90...264	127...370	101.6x50.8x29
EPP-300-12	300	12	25	90...264	127...370	127x76.2x35
EPP-300-24	300	24	12.5	90...264	127...370	127x76.2x35
EPP-400-12	400	12	33.3	90...264	127...370	127x76.2x35
EPP-400-24	400	24	16.7	90...264	127...370	127x76.2x35
EPP-500-12	500	12	41.6	90...264	127...370	127x76.2x40
EPP-500-24	500	24	20.8	90...264	127...370	127x76.2x40

Power supply: switching; open; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : open
 Number of outputs : 3
 Supply voltage : 90...264V AC
 Supply voltage : 127...370V DC

Symbol	Power [W]	Out. volt. [V DC]	Out. curr. [A]	Out. volt. 2 [V DC]	Out. current 2 [A]	Out. volt. 3 [V DC]	Out. current 3 [A]
RPT-60A	46.5	5	4	12	2	-5	0.5
RPT-60B	50	5	4	12	2	-12	0.5
RPT-60C	50	5	4	15	1.5	-15	0.5
RPT-60D	47.5	5	3.5	24	1	12	0.5
RPT-6003	39.9	3.3	5	5	3	12	0.7
RPT-75A	68.5	5	6	12	3	-5	0.5
RPT-75B	72	5	6	12	3	-12	0.5

Symbol	Power [W]	Out. volt. [V DC]	Out. curr. [A]	Out. volt. 2 [V DC]	Out. current 2 [A]	Out. volt. 3 [V DC]	Out. current 3 [A]
RPT-75C	72	5	6	15	2.3	-15	0.5
RPT-75D	73	5	5	24	1.5	12	1
RPT-7503	61.8	3.3	6	5	6	12	1
RPT-160A	145	5	14	12	5.5	-5	1
RPT-160B	146	5	14	12	5	-12	1
RPT-160C	143	5	14	15	3.6	-15	1
RPT-160D	148	5	11	12	5	24	1.2
RPTG-160A	145	5	14	12	5.5	-5	1
RPTG-160B	146	5	14	12	5	-12	1
RPTG-160C	143	5	14	15	3.6	-15	1
RPTG-160D	148	5	11	12	5	24	1.2
RPT-65E	62.5	12	4.5	5	1.2	-5	0.5
RPT-65F	66	12	4.5	5	1.2	-12	0.5
RPT-65G	66	24	2.25	5	1.2	12	0.5

Power supply: switching; modular; RWS; TDK-LAMBDA



TDK-Lambda

Manufacturer : TDK-LAMBDA
 Type of power supply : switching
 Kind of power supply : for building in, modular
 Number of outputs : 1
 Electrical connection : terminal block
 Sup. volt. : 85...265V AC
 Protection : over current OCP, anti-overvoltage OVP
 Features : cooling active
 Indication : LED

Symbol	Power [W]	Output voltage [V DC]	Out. curr. [A]	Sup. volt. [V DC]	Body dim. [mm]
RWS50B-5	50	5	10	120...370	82x34x81.5
RWS50B-12	50	12	4.3	120...370	82x34x81.5
RWS50B-24	50	24	2.2	120...370	82x34x81.5
RWS50B-48	50	48	1.1	120...370	82x34x81.5
RWS100B-5	100	5	14	120...370	94x39x108
RWS100B-12	100	12	8.5	120...370	94x39x108
RWS100B-24	100	24	4.5	120...370	94x39x108
RWS100B-48	100	48	2.1	120...370	94x39x108
RWS150B-5	150	5	21	120...370	94x41x128
RWS150B-12	150	12	13	120...370	94x41x128
RWS150B-24	150	24	6.5	120...370	94x41x128
RWS150B-48	150	48	3.3	120...370	94x41x128
RWS300B-5	300	5	50	120...370	102x41x170
RWS300B-12	300	12	25	120...370	102x41x170
RWS300B-15	300	15	20	120...370	102x41x170
RWS300B-24	300	24	12.5	120...370	102x41x170
RWS300B-36	300	36	8.4	120...370	102x41x170
RWS300B-48	300	48	6.3	120...370	102x41x170
RWS600B-5	600	5	100	120...370	120x61x190
RWS600B-12	600	12	50	120...370	120x61x190
RWS600B-15	600	15	40	120...370	120x61x190
RWS600B-24	600	24	25	120...370	120x61x190
RWS600B-36	600	36	16.7	120...370	120x61x190
RWS600B-48	600	48	12.5	120...370	120x61x190
RWS1000B-12	1000	12	84	120...340	127x63x198
RWS1000B-15	1000	15	67	120...340	127x63x198
RWS1000B-24	1000	24	42	120...340	127x63x198
RWS1000B-36	1000	36	28	120...340	127x63x198
RWS1000B-48	1000	48	21	120...340	127x63x198
RWS1500B-12	1500	12	125	120...340	127x63x261
RWS1500B-15	1500	15	100	120...340	127x63x261
RWS1500B-24	1500	24	63	120...340	127x63x261
RWS1500B-36	1500	36	42	120...340	127x63x261
RWS1500B-48	1500	48	32	120...340	127x63x261

Power supply: switching; open; TRACO POWER



TRACO POWER
 Reliable. Available. Now.

Manufacturer : TRACO POWER
 Type of power supply : switching
 Kind of power supply : open
 Supply voltage : 85...264V AC

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Power supplies

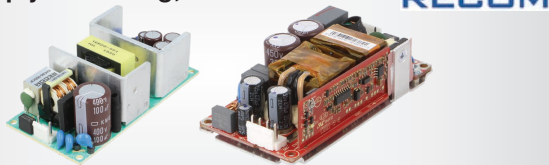
Power supply: switching; open; TRACO POWER (cont.)

Supply voltage : 120...370V DC

Application : medical applications

Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Body dim. [mm]
TPP30-105A-J	30	5	6	84.8x34.6x19.6
TPP30-112A-J	30	12	2.5	84.8x34.6x19.6
TPP30-124A-J	30	24	1.25	84.8x34.6x19.6
TPP40-105A-J	40	5	8	76.2x50.8x24
TPP40-112A-J	40	12	3.34	76.2x50.8x24
TPP40-124A-J	40	24	1.67	76.2x50.8x24
TPP65-105A-J	65	5	10	76.2x50.8x24
TPP65-112A-J	65	12	5.42	76.2x50.8x24
TPP65-124A-J	65	24	2.71	76.2x50.8x24
TPP100-112A-J	100	12	8.34	76.2x50.8x29.5
TPP100-124A-J	100	24	4.17	76.2x50.8x29.5
TPP150-112A-J	150	12	12.5	101.6x50.8x29.5
TPP150-124A-J	150	24	6.25	101.6x50.8x29.5
TPP100-112	100	12	8.34	91.4x62x39.2
TPP100-115	100	15	6.67	91.4x62x39.2
TPP100-124	100	24	4.17	91.4x62x39.2
TPP100-128	100	28	3.58	91.4x62x39.2
TPP100-136	100	36	2.78	91.4x62x39.2
TPP100-148	100	48	2.09	91.4x62x39.2
TPP150-112	150	12	12.5	116.8x62x49.2
TPP150-115	150	15	10	116.8x62x49.2
TPP150-124	150	24	6.25	116.8x62x49.2
TPP150-128	150	28	5.36	116.8x62x49.2
TPP150-136	150	36	4.17	116.8x62x49.2
TPP150-148	150	48	3.13	116.8x62x49.2

Power supply: switching; RECOM



Manufacturer : RECOM

Type of power supply : switching

Symbol	Power [W]	Out. volt. [V DC]	Out. curr. [A]	Sup. volt. [V AC]	Sup. volt. [V DC]
RACM40-05SK/OF/PCB	30	5	6	80...264	120...370
RACM40-12SK/OF/PCB	40	12	3.3	80...264	120...370
RACM40-15SK/OF/PCB	40	15	2.6	80...264	120...370
RACM40-18SK/OF/PCB	40	18	2.2	80...264	120...370
RACM40-24SK/OF/PCB	40	24	1.6	80...264	120...370
RACM40-36SK/OF/PCB	40	36	1.1	80...264	120...370
RACM40-48SK/OF/PCB	40	48	0.83	80...264	120...370
RACM40-05SK/OF/2X3	30	5	6	80...264	120...370
RACM40-12SK/OF/2X3	40	12	3.3	80...264	120...370
RACM40-15SK/OF/2X3	40	15	2.6	80...264	120...370
RACM40-18SK/OF/2X3	40	18	2.2	80...264	120...370
RACM40-24SK/OF/2X3	40	24	1.6	80...264	120...370
RACM40-36SK/OF/2X3	40	36	1.1	80...264	120...370
RACM40-48SK/OF/2X3	40	48	0.83	80...264	120...370
RACM60-05SK/OF/PCB	40	5	8	80...264	120...370
RACM60-12SK/OF/PCB	60	12	5	80...264	120...370
RACM60-24SK/OF/PCB	60	24	2.5	80...264	120...370
RACM60-12SK/OF/2X4	60	12	5	80...264	120...370
RACM60-24SK/OF/2X4	60	24	2.5	80...264	120...370

Power supply: switching; modular; MEAN WELL



Manufacturer : MEAN WELL

Type of power supply : switching

Number of outputs : 1

Electrical connection : terminal block

Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Symbol	Power [W]	Output voltage [V DC]	Out. curr. [A]	Supply voltage [V AC]	Supply voltage [V DC]
UHP-200-5	200	5	40	90...264	127...370
UHP-200-12	200.4	12	16.7	90...264	127...370
UHP-200-24	201.6	24	8.4	90...264	127...370
UHP-200R-5	200	5	40	90...264	127...370
UHP-200R-12	200.4	12	16.7	90...264	127...370
UHP-200R-24	201.6	24	8.4	90...264	127...370

Symbol	Power [W]	Output voltage [V DC]	Out. curr. [A]	Supply voltage [V AC]	Supply voltage [V DC]
UHP-350-5	300	5	60	90...264	127...370
UHP-350-12	350.4	12	29.2	90...264	127...370
UHP-350-24	350.4	24	14.6	90...264	127...370
UHP-350R-5	300	5	60	90...264	127...370
UHP-350R-12	350.4	12	29.2	90...264	127...370
UHP-350R-24	350.4	24	14.6	90...264	127...370
UHP-500-5	400	5	80	90...264	127...370
UHP-500-12	500.4	12	41.7	90...264	127...370
UHP-500-24	501.6	24	20.9	90...264	127...370
UHP-500R-5	400	5	80	90...264	127...370
UHP-500R-12	500.4	12	41.7	90...264	127...370
UHP-500R-24	501.6	24	20.9	90...264	127...370
UHP-750-12	720	12	60	90...264	127...370
UHP-750-24	750	24	31.3	90...264	127...370
UHP-750-48	750	48	15.7	90...264	127...370
UHP-1000-12	960	12	80	90...264	250...370
UHP-1000-24	1000	24	42	90...264	250...370
UHP-1000-48	1000	48	21	90...264	250...370
UHP-1500-24	1500	24	62.5	90...264	250...370
UHP-1500-48	1512	48	31.5	90...264	250...370

Kind of power supply:

- for building in (UHP-200xxx, UHP-350-5, UHP-350-24, UHP-350R-xx, UHP-500-xx, UHP-500R-5, UHP-500R-24, UHP-750-xx, UHP-1xxx)
- modular

Power supply: switching; OMRON



OMRON

Manufacturer : OMRON

Type of power supply : switching

Operating temperature : -20...70°C

Supply voltage : 100...240V AC

Kind of power supply : for building in

Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Supply voltage [V DC]
S8FS-C02505	25	5	5	120...370
S8FS-C02512	25	12	2.1	120...370
S8FS-C02524	25	24	1.1	120...370
S8FS-C03505	35	5	7	120...370
S8FS-C03512	35	12	3	120...370
S8FS-C03524	35	24	1.5	120...370
S8FS-C05005	50	5	10	120...370
S8FS-C05012	50	12	4.2	120...370
S8FS-C05024	50	24	2.2	120...370
S8FS-C05048	50	48	1.1	120...370
S8FS-C07505	75	5	14	120...370
S8FS-C07512	75	12	6.2	120...370
S8FS-C07524	75	24	3.2	120...370
S8FS-C07548	75	48	1.6	120...370
S8FS-C10005	100	5	20	248...373
S8FS-C10012	100	12	8.5	248...373
S8FS-C10024	100	24	4.5	248...373
S8FS-C10048	100	48	2.3	248...373
S8FS-C15005	150	5	26	254...373
S8FS-C15012	150	12	12.5	254...373
S8FS-C15024	150	24	6.5	254...373
S8FS-C15048	150	48	3.3	254...373
S8FS-C20005	200	5	40	254...373
S8FS-C20012	200	12	17	254...373
S8FS-C20024	200	24	8.8	254...373
S8FS-C20048	200	48	4.43	254...373
S8FS-C35005	350	5	60	254...373
S8FS-C35012	350	12	29	254...373
S8FS-C35024	350	24	14.6	254...373
S8FS-C35048	350	48	7.32	254...373

Power supply: switching; for building in, modular; HRP-N3; MEAN WELL



Manufacturer : MEAN WELL

Type of power supply : switching

Kind of power supply : for building in, modular

Number of outputs : 1

Electrical connection : terminal block

Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP

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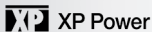
Power supply: switching; for building in, modular; HRP-N3; MEAN WELL (cont.)

Additional functions : active PFC;
remote sense

Operating temperature : -40...70°C
U_{sup} : 120...370V DC
U_{sup} : 85...264V AC
Manufacturer series : HRP-N3

Symbol	Power [W]	U _{out} [V DC]	I _{out} [A]	Efficiency [%]	Output voltage [V DC]
HRP-150N3-12	156	12	13	88	10.2...13.8
HRP-150N3-24	156	24	6.5	88	21.6...28.8
HRP-150N3-36	154.8	36	4.3	89	28.8...39.6
HRP-150N3-48	154.8	48	3.3	89	40.8...55.2
HRP-300N3-12	324	12	27	88	10.2...13.8
HRP-300N3-24	336	24	14	87	21.6...28.8
HRP-300N3-36	324	36	9	88	28.8...39.6
HRP-300N3-48	336	48	7	89	40.8...55.2
HRP-600N3-12	636	12	53	88	10.2...13.8
HRP-600N3-24	648	24	27	88	21.6...28.8
HRP-600N3-36	630	36	17.5	89	28.8...39.6
HRP-600N3-48	624	48	13	89	40.8...55.2

Power supply: switching; open; GCS; XP POWER



Manufacturer : XP POWER
Mounting : mounting holes
Application : medical applications, IT
Manufacturer series : GCS
U_{sup} : 85...264V AC
Number of outputs : 1
Efficiency : 93%
Kind of power supply : open

Symbol	Power [W]	I _{out} [A]	Output voltage [V DC]
GCS150PS12	150	9.2	12
GCS150PS24	150	6.3	24
GCS150PS28	150	3.9	28
GCS150PS48	150	2.3	48
GCS180PS12	180	12.5	12
GCS180PS15	180	10	15
GCS180PS24	180	6.3	24
GCS180PS48	180	5.4	48
GCS250PS12	250	15	12
GCS250PS15	250	12	15
GCS250PS24	250	7.5	24
GCS250PS28	250	6.4	28
GCS250PS48	250	3.7	48
GCS350PS12	350	16.7	12
GCS350PS15	350	13.3	15
GCS350PS24	350	8.3	24
GCS350PS28	350	7.1	28
GCS350PS48	350	4.2	48

Power supply: switching; LED; constant voltage; LPV; MEAN WELL



Manufacturer : MEAN WELL
Type of power supply : switching
Kind of power supply : LED
Operating modes : constant voltage
Electrical connection : wires
IP rating : IP67
Lead length : 600mm

Symbol	Power [W]	Output voltage [V DC]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
LPV-20-5	15	5	3	90...264	127...370	35x118x26
LPV-20-12	20	12	1.67	90...264	127...370	35x118x26
LPV-20-15	20	15	1.33	90...264	127...370	35x118x26
LPV-20-24	20	24	0.84	90...264	127...370	35x118x26
LPV-35-5	30	5	5	90...264	127...370	40x148x30
LPV-35-12	36	12	3	90...264	127...370	40x148x30
LPV-35-15	36	15	2.4	90...264	127...370	40x148x30
LPV-35-24	36	24	1.5	90...264	127...370	40x148x30
LPV-35-36	36	36	1	90...264	127...370	40x148x30
LPV-60-5	40	5	8	90...264	127...370	42x162x32
LPV-100-5	60	5	12	90...264	127...370	52x190x37

Symbol	Power [W]	Output voltage [V DC]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
LPV-60-12	60	12	5	90...264	127...370	42x162x32
LPV-60-15	60	15	4	90...264	127...370	42x162x32
LPV-60-24	60	24	2.5	90...264	127...370	42x162x32
LPV-60-36	60	36	1.67	90...264	127...370	42x162x32
LPV-60-48	60	48	1.25	90...264	127...370	42x162x32
LPV-100-15	100	15	6.7	90...264	127...370	52x190x37
LPV-100-24	100	24	4.2	90...264	127...370	52x190x37
LPV-100-36	100	36	2.8	90...264	127...370	52x190x37
LPV-100-48	100	48	2.1	90...264	127...370	52x190x37
LPV-100-12	102	12	8.5	90...264	127...370	52x190x37
LPV-150-12	120	12	10	180...305	254...431	191x63x37
LPV-150-15	120	15	8	180...305	254...431	191x63x37
LPV-150-24	151	24	6.3	180...305	254...431	191x63x37
LPV-150-36	151	36	4.2	180...305	254...431	191x63x37
LPV-150-48	153	48	3.2	180...305	254...431	191x63x37

Information:
— more products from this series available on www.tme.eu

Power supply: switching; LED; constant voltage, constant current; HLG A; MEAN WELL



Manufacturer : MEAN WELL
Type of power supply : switching
Kind of power supply : LED
Operating modes : constant voltage, constant current
Electrical connection : wires
Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP
Supply voltage : 90...305V AC
Supply voltage : 127...431V DC
Operating temperature : -40...70°C
IP rating : IP65
Lead length : 300mm

Symbol	Power [W]	U _{out} [V DC]	I _{out} [A]	Efficiency [%]	Body dim. [mm]
HLG-240H-12A	192	12	8...16	90	68x244.2x38.8
HLG-240H-15A	225	15	7.5...15	90	68x244.2x38.8
HLG-240H-20A	240	20	6...12	91	68x244.2x38.8
HLG-240H-24A	240	24	5...10	92	68x244.2x38.8
HLG-240H-30A	240	30	4...8	92	68x244.2x38.8
HLG-240H-36A	240	36	3.3...6.7	92	68x244.2x38.8
HLG-240H-42A	240	42	2.86...5.72	92	68x244.2x38.8
HLG-240H-48A	240	48	2.5...5	93	68x244.2x38.8
HLG-240H-54A	240	54	2.23...4.45	93	68x244.2x38.8
HLG-320H-12A	264	12	22	91	90x252x43.8
HLG-320H-15A	285	15	19	92	90x252x43.8
HLG-320H-20A	300	20	7.5...15	93	90x252x43.8
HLG-320H-24A	320	24	6.67...13.34	94	90x252x43.8
HLG-320H-30A	320	30	5.35...10.7	94	90x252x43.8
HLG-320H-36A	320	36	4.45...8.9	94	90x252x43.8
HLG-320H-42A	320	42	3.8...7.65	95	90x252x43.8
HLG-320H-48A	320	48	3.35...6.7	95	90x252x43.8
HLG-320H-54A	320	54	2.97...5.95	95	90x252x43.8
HLG-600H-12A	480	12	20...40	92	144x280x48.5
HLG-480H-24A	480	24	10...20	94	262x125x43.8
HLG-480H-30A	480	30	8...16	94	262x125x43.8
HLG-480H-36A	480	36	6.6...13.3	95	262x125x43.8
HLG-480H-42A	480	42	5.7...11.4	95	262x125x43.8
HLG-480H-48A	480	48	5...10	94	262x125x43.8
HLG-480H-54A	480	54	4.4...8.9	95	262x125x43.8
HLG-600H-15A	540	15	18...36	93	144x280x48.5
HLG-600H-20A	560	20	14...28	94	144x280x48.5
HLG-600H-24A	600	24	12.5...25	95	144x280x48.5
HLG-600H-30A	600	30	10...20	95	144x280x48.5
HLG-600H-36A	600	36	8.3...16.7	95	144x280x48.5
HLG-600H-42A	600	42	7.1...14.3	96	144x280x48.5
HLG-600H-48A	600	48	6.2...12.5	96	144x280x48.5
HLG-600H-54A	600	54	5.6...11.2	96	144x280x48.5

Information: more products from this series available on www.tme.eu.

Power supply: switching; LED; constant voltage; APV; MEAN WELL



Manufacturer : MEAN WELL
Type of power supply : switching
Kind of power supply : LED
Operating modes : constant voltage
Electrical connection : wires

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Power supplies

Power supply: switching; LED; constant voltage; APV; MEAN WELL (cont.)

Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP
 Operating temperature : -30...70°C
 IP rating : IP42
 Lead length : 150mm

Symbol	Power [W]	Output voltage [V DC]	I _{out} [A]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
APV-8-5	7	5	1.4	90...264	127...370	60x30x22
APV-8-12	8	12	0.67	90...264	127...370	60x30x22
APV-8-24	8	24	0.34	90...264	127...370	60x30x22
APV-12-5	10	5	2	90...264	127...370	77x40x29
APV-12-12	12	12	1	90...264	127...370	77x40x29
APV-12-15	12	15	0.8	90...264	127...370	77x40x29
APV-12-24	12	24	0.5	90...264	127...370	77x40x29
APV-16-5	13	5	2.6	90...264	127...370	77x40x29
APV-16-12	15	12	1.25	90...264	127...370	77x40x29
APV-16-15	15	15	1	90...264	127...370	77x40x29
APV-16-24	16	24	0.67	90...264	127...370	77x40x29
APV-25-5	18	5	3.5	90...264	127...370	84x57x29.5
APV-35-5	25	5	5	90...264	127...370	84x57x29.5
APV-25-12	25	12	2.1	90...264	127...370	84x57x29.5
APV-25-15	25	15	1.68	90...264	127...370	84x57x29.5
APV-25-24	25	24	1.05	90...264	127...370	84x57x29.5
APV-25-36	25	36	0.7	90...264	127...370	84x57x29.5
APV-35-12	36	12	3	90...264	127...370	84x57x29.5
APV-35-15	36	15	2.4	90...264	127...370	84x57x29.5
APV-35-24	36	24	1.5	90...264	127...370	84x57x29.5
APV-35-36	36	36	1	90...264	127...370	84x57x29.5

Information:

— more products from this series available on www.tme.eu

Power supply: switching; LED; LCM; MEAN WELL



Manufacturer : MEAN WELL
 Kind of power supply : LED
 Type of power supply : switching
 Electrical connection : terminal block
 IP rating : IP20

Symbol	Power [W]	U _{out} [V DC]	I _{out} [mA]	U _{sup} [V AC]	U _{sup} [V DC]	Body dim. [mm]
LCM-25	25	6...54	350...1050	180...277	254...392	105x68x23
LCM-25DA	25	6...54	350...1050	180...277	254...392	105x68x23
LCM-40	42	2...100	350...1050	180...295	254...417	123.5x81.5x23
LCM-40DA	42	2...100	350...1050	180...295	254...417	123.5x81.5x23
LCM-60	60	2...90	500...1400	180...295	254...417	123.5x81.5x23
LCM-60DA	60	2...90	500...1400	180...295	254...417	123.5x81.5x23

Operating modes:

— constant current

Communications protocol (LCM-xxDA):

— DALI

Power supply: switching; LED; constant current; HBG; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : LED
 Electrical connection : wires
 Additional functions : active PFC
 IP rating : IP67
 Supply voltage : 90...305V AC
 Supply voltage : 127...431V DC
 Lead length : 300mm

Symbol	Operating modes	Power [W]	U _{out} [V DC]	I _{out} [A]	Efficiency [%]
HBG-100-24	constant current	96	14.4...24	4	90.5
HBG-100-48	constant current	96	28.8...48	2	91
HBG-100-60	constant current	96	36...60	1.6	91.5
HBG-100-36	constant current	97.2	21.6...36	2.7	91
HBG-160-24	constant voltage, constant current	156	24	6.5	92
HBG-160-60	constant voltage, constant current	156	60	2.6	93.5
HBG-160-36	constant voltage, constant current	158	36	4.4	92
HBG-160-48	constant voltage, constant current	158	48	3.3	93
HBG-200-36	constant voltage, constant current	200	36	5.5	92

Symbol	Operating modes	Power [W]	U _{out} [V DC]	I _{out} [A]	Efficiency [%]
HBG-200-48	constant voltage, constant current	200	48	4.1	93
HBG-200-60	constant voltage, constant current	200	60	3.3	93.5
HBG-240-24	constant voltage, constant current	240	24	10	92.5
HBG-240-48	constant voltage, constant current	240	48	5	93
HBG-240-60	constant voltage, constant current	240	60	4	93.5

Power supply: switching; LED; constant current; HBG B; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : LED
 Electrical connection : wires
 Additional functions : dimming function 1-10V DC; PWM controlled dimming function; resistance dimming function; active PFC
 Supply voltage : 90...305V AC
 Supply voltage : 127...431V DC
 IP rating : IP67
 Lead length : 300mm

Symbol	Operating modes	Power [W]	U _{out} [V DC]	I _{out} [A]	Efficiency [%]	Body dim. [mm]
HBG-100-24B	constant current	96	14.4...24	4	90.5	Ø130x66.5
HBG-100-36B	constant current	97	21.6...36	2.7	91	Ø130x66.5
HBG-160-24B	constant voltage, constant current	156	24	6.5	92	Ø151.68x66.5
HBG-240-24B	constant voltage, constant current	240	24	10	92.5	Ø191.5x69
HBG-100-48B	constant current	96	28.8...48	2	91	Ø130x66.5
HBG-160-36B	constant voltage, constant current	160	36	4.4	92	Ø151.68x66.5
HBG-200-36B	constant voltage, constant current	200	36	5.5	92	Ø151.68x66.5
HBG-240-36B	constant voltage, constant current	240	36	6.7	92.5	Ø191.5x69
HBG-100-60B	constant current	96	36...60	1.6	91.5	Ø130x66.5
HBG-160-48B	constant voltage, constant current	160	48	3.3	93	Ø151.68x66.5
HBG-200-48B	constant voltage, constant current	200	48	4.1	93	Ø151.68x66.5
HBG-240-48B	constant voltage, constant current	240	48	5	93	Ø191.5x69
HBG-160-60B	constant voltage, constant current	156	60	2.6	93.5	Ø151.68x66.5
HBG-200-60B	constant voltage, constant current	200	60	3.3	93.5	Ø151.68x66.5

Power supply: switching; LED; constant current; HLG C A; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : LED
 Operating modes : constant current
 Electrical connection : wires
 Protection : anti-overvoltage OVP, short circuit protection SCP, overheating OTP
 Additional functions : active PFC; adjustable output current level
 Supply voltage : 90...305V AC
 Supply voltage : 127...431V DC
 IP rating : IP65
 Lead length : 300mm

Symbol	Power [W]	I _{out} [mA]	U _{out} [V DC]	Efficiency [%]	Body dim. [mm]
HLG-240H-C700A	250	350...700	178...357	93.5	244x68x38.8
HLG-240H-C1050A	250	525...1050	119...238	93.5	244x68x38.8
HLG-240H-C1400A	250	700...1400	89...179	94	244x68x38.8
HLG-240H-C1750A	250	875...1750	71...143	94	244x68x38.8
HLG-240H-C2100A	250	1050...2100	59...119	93.5	244x68x38.8
HLG-320H-C700A	300	350...700	214...428	94	252x90x43.8
HLG-320H-C1050A	320	525...1050	152...305	94	252x90x43.8
HLG-320H-C1400A	320	700...1400	114...229	94	252x90x43.8
HLG-320H-C1750A	320	875...1750	91...183	94	252x90x43.8
HLG-320H-C2100A	320	1050...2100	76...152	94	252x90x43.8
HLG-320H-C2800A	320	1400...2800	57...114	94	252x90x43.8
HLG-320H-C3500A	320	1750...3500	46...91	94	252x90x43.8
HLG-480H-C1400A	480	700...1400	171...343	95	262x125x43.8
HLG-480H-C1750A	480	875...1750	137...274	95	262x125x43.8
HLG-480H-C2100A	480	1050...2100	114...229	95	262x125x43.8
HLG-480H-C2800A	480	1400...2800	85...171	95	262x125x43.8

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Power supply: switching; LED; constant current; HLG C A; MEAN WELL (cont.)

Symbol	Power [W]	I _{out} [mA]	U _{out} [V DC]	Efficiency [%]	Body dim. [mm]
HLG-480H-C3500A	480	1750...3500	68...137	95	262x125x43.8

Power supply: switching; LED; constant current, constant voltage; HLG B; MEAN WELL

Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : LED
 Operating modes : constant voltage, constant current
 Electrical connection : wires
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Supply voltage : 90...305V AC
 Supply voltage : 127...431V DC
 Operating temperature : -40...70°C
 IP rating : IP67
 Lead length : 300mm

Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Body dim. [mm]
HLG-240H-12B	192	12	16	244.2x68x38.8
HLG-240H-15B	225	15	15	244.2x68x38.8
HLG-240H-20B	240	20	12	244.2x68x38.8
HLG-240H-24B	240	24	10	244.2x68x38.8
HLG-240H-30B	240	30	8	244.2x68x38.8
HLG-240H-36B	240	36	6.7	244.2x68x38.8
HLG-240H-42B	240	42	5.72	244.2x68x38.8
HLG-240H-48B	240	48	5	244.2x68x38.8
HLG-240H-54B	240	54	4.45	244.2x68x38.8
HLG-320H-12B	264	12	22	252x90x43.8
HLG-320H-15B	285	15	19	252x90x43.8
HLG-320H-20B	300	20	15	252x90x43.8
HLG-320H-24B	320	24	13.34	252x90x43.8
HLG-320H-30B	320	30	10.7	252x90x43.8
HLG-320H-36B	320	36	8.9	252x90x43.8
HLG-320H-42B	320	42	7.65	252x90x43.8
HLG-320H-48B	320	48	6.7	252x90x43.8
HLG-320H-54B	320	54	5.95	252x90x43.8
HLG-480H-24B	480	24	20	262x125x43.8
HLG-480H-30B	480	30	16	262x125x43.8
HLG-480H-36B	480	36	13.3	262x125x43.8
HLG-480H-42B	480	42	11.4	262x125x43.8
HLG-480H-48B	480	48	10	262x125x43.8
HLG-480H-54B	480	54	8.9	262x125x43.8
HLG-600H-12B	481	12	40	280x144x48.5
HLG-600H-15B	540	15	36	280x144x48.5
HLG-600H-20B	560	20	28	280x144x48.5
HLG-600H-24B	600	24	25	280x144x48.5
HLG-600H-30B	600	30	20	280x144x48.5
HLG-600H-36B	600	36	16.7	280x144x48.5
HLG-600H-42B	600	42	14.3	280x144x48.5
HLG-600H-48B	600	48	12.5	280x144x48.5
HLG-600H-54B	600	54	11.2	280x144x48.5

Power supply: switching; LED; constant current; HLG C B; MEAN WELL

Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : LED
 Operating modes : constant current
 Electrical connection : wires
 Protection : anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Additional functions : dimming function 1-10V DC;
 PWM controlled dimming function;
 resistance dimming function;
 active PFC

Supply voltage : 90...305V AC

Supply voltage : 127...431V DC
 IP rating : IP67
 Lead length : 300mm

Symbol	Power [W]	Out. curr. [mA]	Out. volt. [V DC]	Efficiency [%]	Body dim. [mm]
HLG-240H-C700B	250	700	178...357	93.5	244x68x38.8
HLG-240H-C1050B	250	1050	119...238	93.5	244x68x38.8
HLG-240H-C1400B	250	1400	89...179	94	244x68x38.8
HLG-240H-C1750B	250	1750	71...143	94	244x68x38.8
HLG-240H-C2100B	250	2100	59...119	93.5	244x68x38.8
HLG-320H-C700B	300	700	214...428	94	252x90x43.8
HLG-320H-C1050B	320	1050	152...305	94	252x90x43.8
HLG-320H-C1400B	320	1400	114...229	94	252x90x43.8
HLG-320H-C1750B	320	1750	91...183	94	252x90x43.8
HLG-320H-C2100B	320	2100	76...152	94	252x90x43.8
HLG-320H-C2800B	320	2800	57...114	94	252x90x43.8
HLG-320H-C3500B	320	3500	46...91	94	252x90x43.8
HLG-480H-C1400B	480	1400	171...343	95	262x125x43.8
HLG-480H-C1750B	480	1750	137...274	95	262x125x43.8
HLG-480H-C2100B	480	2100	114...229	95	262x125x43.8
HLG-480H-C2800B	480	2800	85...171	95	262x125x43.8
HLG-480H-C3500B	480	3500	68...137	95	262x125x43.8

Power supply: switching; LED; constant current, constant voltage; HLG; MEAN WELL

Manufacturer : MEAN WELL
 Kind of power supply : LED
 Operating modes : constant voltage, constant current
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Supply voltage : 90...305V AC
 Supply voltage : 127...431V DC
 Type of power supply : switching
 Electrical connection : wires FG L N
 Additional functions : active PFC
 IP rating : IP67
 Lead length : 300mm

Symbol	Power [W]	Out. volt. [V DC]	Out. curr. [A]	Body dim. [mm]
HLG-240H-12	192	12	16	244.2x68x38.8
HLG-240H-15	225	15	15	244.2x68x38.8
HLG-240H-20	240	20	12	244.2x68x38.8
HLG-240H-24	240	24	10	244.2x68x38.8
HLG-240H-30	240	30	8	244.2x68x38.8
HLG-240H-36	240	36	6.7	244.2x68x38.8
HLG-240H-42	240	42	5.72	244.2x68x38.8
HLG-240H-48	240	48	5	244.2x68x38.8
HLG-240H-54	240	54	4.45	244.2x68x38.8
HLG-320H-12	264	12	22	252x90x43.8
HLG-320H-15	285	15	19	252x90x43.8
HLG-320H-20	300	20	15	252x90x43.8
HLG-320H-24	320	24	13.34	252x90x43.8
HLG-320H-30	320	30	10.7	252x90x43.8
HLG-320H-36	320	36	8.9	252x90x43.8
HLG-320H-42	320	42	7.65	252x90x43.8
HLG-320H-48	320	48	6.7	252x90x43.8
HLG-320H-54	320	54	5.95	252x90x43.8
HLG-600H-12	480	12	40	280x144x48.5
HLG-480H-24	480	24	20	262x125x43.8
HLG-480H-30	480	30	16	262x125x43.8
HLG-480H-36	480	36	13.3	262x125x43.8
HLG-480H-42	480	42	11.4	262x125x43.8
HLG-480H-48	480	48	10	262x125x43.8
HLG-480H-54	480	54	8.9	262x125x43.8
HLG-600H-15	540	15	36	280x144x48.5
HLG-600H-20	560	20	28	280x144x48.5
HLG-600H-24	600	24	25	280x144x48.5
HLG-600H-30	600	30	20	280x144x48.5
HLG-600H-36	600	36	16.7	280x144x48.5
HLG-600H-42	600	42	14.3	280x144x48.5
HLG-600H-48	600	48	12.5	280x144x48.5
HLG-600H-54	600	54	11.2	280x144x48.5

Power supply: switching; LED; constant current, constant voltage; OWA; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : LED
 Operating modes : constant voltage, constant current
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP
 Supply voltage : 90...264V AC
 Supply voltage : 127...370V DC
 Operating temperature : -40...70°C
 IP rating : IP67
 Power consumption without load : <0.15W

Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Efficiency [%]
OWA-60E-12	60	12	5	88
OWA-60E-15	60	15	4	89
OWA-60E-20	60	20	3	89
OWA-60E-24	60	24	2.5	90
OWA-60E-30	60	30	2	90
OWA-60E-36	60	36	1.67	90
OWA-60E-48	60	48	1.25	91
OWA-60E-54	60	54	1.12	91
OWA-60E-42	63	42	1.5	90
OWA-90E-12	90	12	7.5	89
OWA-90E-15	90	15	6	90
OWA-90E-20	90	20	4.5	90
OWA-90E-24	90	24	3.75	90
OWA-90E-30	90	30	3	90
OWA-90E-36	90	36	2.5	91
OWA-90E-42	90	42	2.15	91
OWA-90E-48	90	48	1.88	91
OWA-90E-54	90	54	1.67	91
OWA-120E-12	120	12	10	89
OWA-120E-15	120	15	8	89.5
OWA-120E-20	120	20	6	90
OWA-120E-24	120	24	5	90.5
OWA-120E-30	120	30	4	90
OWA-120E-42	120	42	2.9	90.5
OWA-120E-48	120	48	2.5	91
OWA-120E-36	122	36	3.4	90.5
OWA-200E-12	200	12	15	91
OWA-200E-20	200	20	10	92.5
OWA-200E-24	200	24	8.3	93
OWA-200E-36	200	36	5.55	94
OWA-200E-42	200	42	4.75	94
OWA-200E-48	200	48	4.17	94
OWA-200E-54	200	54	3.71	94

Connectors for the country:

— Europe

Lead length:

— 300mm (OWA-60E-xx, OWA-90E-xx, OWA-120E-xx)

— 1m (OWA-200E-xx)

— 1500mm (OWA-60E-xx, OWA-90E-xx, OWA-120E-xx)

Power supply: switching; LED; constant current; ELG C; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : LED
 Operating modes : constant current
 Additional functions : active PFC; adjustable output current level

IP rating : IP65

Power consumption without load : <0.5W

Lead length : 300mm

Symbol	Power [W]	Output current [mA]	Output voltage [V DC]	Sup. volt. [V AC]	Sup. volt. [V DC]
ELG-75-C350A	75	175...350	107...214	180...295	255...417
ELG-75-C500A	75	250...500	75...150	180...295	255...417
ELG-75-C700A	75	350...700	53...107	180...295	255...417
ELG-75-C1050A	75	525...1050	35...71	180...295	255...417

Symbol	Power [W]	Output current [mA]	Output voltage [V DC]	Sup. volt. [V AC]	Sup. volt. [V DC]
ELG-100-C350A	100	175...350	143...286	180...295	255...417
ELG-100-C500A	100	250...500	100...200	180...295	255...417
ELG-100-C700A	100	350...700	71...143	180...295	255...417
ELG-100-C1050A	100	525...1050	48...95	180...295	255...417
ELG-100-C1400A	100	700...1400	35...72	180...295	255...417
ELG-150-C500A	150	250...500	150...300	180...295	255...417
ELG-150-C700A	150	350...700	107...214	180...295	255...417
ELG-150-C1400A	150	700...1400	54...107	180...295	255...417
ELG-150-C1750A	150	875...1750	43...86	180...295	255...417
ELG-150-C2100A	150	1050...2100	36...72	180...295	255...417
ELG-200-C700A	200	350...700	142...286	100...305	142...431
ELG-200-C1050A	200	525...1050	95...190	100...305	142...431
ELG-200-C1400A	200	700...1400	71...142	100...305	142...431
ELG-200-C1750A	200	875...1750	57...114	100...305	142...431
ELG-200-C2100A	200	1050...2100	48...96	100...305	142...431
ELG-240-C700A	240	350...700	172...343	100...305	142...431
ELG-240-C1050A	240	525...1050	114...228	100...305	142...431
ELG-240-C1400A	240	700...1400	86...171	100...305	142...431
ELG-240-C1750A	240	875...1750	69...137	100...305	142...431
ELG-240-C2100A	240	1050...2100	57...115	100...305	142...431

Information:

— more products from this series available on www.tme.eu

Power supply: switching; LED; constant current; ELG C B; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : LED
 Operating modes : constant current
 Additional functions : dimming function 0-10V DC; PWM controlled dimming function; resistance dimming function; active PFC
 IP rating : IP67
 Protection : anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Power consumption without load : <0.5W

Lead length : 300mm

Symbol	Power [W]	Output current [mA]	Output voltage [V DC]	Supply voltage [V DC]	Supply voltage [V AC]
ELG-75-C350B	75	350	107...214	255...417	180...295
ELG-75-C500B	75	500	75...150	255...417	180...295
ELG-75-C700B	75	700	53...107	255...417	180...295
ELG-75-C1050B	75	1050	35...71	255...417	180...295
ELG-75-C1400B	75	1400	27...54	255...417	180...295
ELG-100-C350B	100	350	143...286	255...417	180...295
ELG-100-C500B	100	500	100...200	255...417	180...295
ELG-100-C700B	100	700	71...143	255...417	180...295
ELG-100-C1050B	100	1050	48...95	255...417	180...295
ELG-100-C1400B	100	1400	35...72	255...417	180...295
ELG-150-C500B	150	500	150...300	255...417	180...295
ELG-150-C700B	150	700	107...214	255...417	180...295
ELG-150-C1050B	150	1050	72...143	255...417	180...295
ELG-150-C1400B	150	1400	54...107	255...417	180...295
ELG-150-C1750B	150	1750	43...86	255...417	180...295
ELG-150-C2100B	150	2100	36...72	255...417	180...295
ELG-200-C700B	200	700	142...286	142...431	100...305
ELG-200-C1050B	200	1050	95...190	142...431	100...305
ELG-200-C1400B	200	1400	71...142	142...431	100...305
ELG-200-C1750B	200	1750	57...114	142...431	100...305
ELG-200-C2100B	200	2100	48...96	142...431	100...305
ELG-240-C700B	240	700	172...343	142...431	100...305
ELG-240-C1050B	240	1050	114...228	142...431	100...305
ELG-240-C1400B	240	1400	86...171	142...431	100...305
ELG-240-C1750B	240	1750	69...137	142...431	100...305
ELG-240-C2100B	240	2100	57...115	142...431	100...305

Information:

— more products from this series available on www.tme.eu

Power supply: switching; LED; constant current, constant voltage; ELG A; MEAN WELL



Manufacturer : MEAN WELL

cont. on the next page

Power supply: switching; LED; constant current, constant voltage; ELG A; MEAN WELL (cont.)

Type of power supply : switching
 Kind of power supply : LED
 Operating modes : constant voltage, constant current
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP
 Additional functions : active PFC;
 adjustable output voltage and current level
 Lead length : 300mm

Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Sup. volt. [V AC]	Sup. volt. [V DC]
ELG-75-12A	60	12	2.5...5	180...295	255...417
ELG-75-24A	76	24	1.57...3.15	180...295	255...417
ELG-75-36A	76	36	1.05...2.1	180...295	255...417
ELG-75-42A	76	42	0.9...1.8	180...295	255...417
ELG-75-48A	77	48	0.8...1.6	180...295	255...417
ELG-100-24A	96	24	2...4	180...295	255...417
ELG-100-36A	96	36	1.33...2.66	180...295	255...417
ELG-100-42A	96	42	1.14...2.28	180...295	255...417
ELG-100-48A	96	48	1...2	180...295	255...417
ELG-100-54A	96	54	0.89...1.78	180...295	255...417
ELG-150-12A	120	12	5...10	100...305	142...431
ELG-150-24A	150	24	3.2...6.25	100...305	142...431
ELG-150-36A	150	36	2.1...4.17	100...305	142...431
ELG-150-42A	150	42	1.8...3.57	100...305	142...431
ELG-150-48A	150	48	1.56...3.13	100...305	142...431
ELG-150-54A	150	54	1.4...2.8	100...305	142...431
ELG-200-12A	192	12	8...16	100...305	142...431
ELG-200-24A	200	24	4.2...8.4	100...305	142...431
ELG-200-36A	200	36	2.78...5.55	100...305	142...431
ELG-200-42A	200	42	2.38...4.76	100...305	142...431
ELG-200-48A	200	48	2.08...4.16	100...305	142...431
ELG-200-54A	200	54	1.86...3.72	100...305	142...431
ELG-240-24A	240	24	5...10	100...305	142...431
ELG-240-36A	240	36	3.33...6.66	100...305	142...431
ELG-240-42A	240	42	2.86...5.71	100...305	142...431
ELG-240-48A	240	48	2.5...5	100...305	142...431
ELG-240-54A	240	54	2.23...4.45	100...305	142...431
ELG-300-12A	264	12	11...22	100...305	142...431
ELG-300-24A	300	24	6.25...12.5	100...305	142...431

Power supply: switching; LED; constant current, constant voltage; ELG B; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : LED
 Operating modes : constant voltage, constant current
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP
 Additional functions : dimming function 0-10V DC;
 PWM controlled dimming function;
 resistance dimming function;
 active PFC

IP rating : IP67
 Power consumption without load : <0.5W
 Lead length : 300mm

Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Efficiency [%]	Sup. volt. [V AC]	Sup. volt. [V DC]
ELG-75-12B	60	12	5	85	180...295	255...417
ELG-75-24B	75	24	3.15	88	180...295	255...417
ELG-75-36B	75	36	2.1	89	180...295	255...417
ELG-75-42B	75	42	1.8	90	180...295	255...417
ELG-75-48B	75	48	1.6	90	180...295	255...417
ELG-100-24B	96	24	4	88	180...295	255...417
ELG-100-36B	96	36	2.66	89	180...295	255...417
ELG-100-42B	96	42	2.28	90	180...295	255...417
ELG-100-48B	96	48	2	90	180...295	255...417
ELG-100-54B	96	54	1.78	91	180...295	255...417
ELG-150-12B	120	12	10	88	180...295	255...417
ELG-150-24B	150	24	6.25	89	180...295	255...417
ELG-150-36B	150	36	4.17	90	180...295	255...417
ELG-150-42B	150	42	3.57	90	180...295	255...417
ELG-150-48B	150	48	3.13	90	180...295	255...417
ELG-150-54B	150	54	2.8	91	100...305	142...431
ELG-200-12B	192	12	16	90	100...305	142...431
ELG-200-24B	200	24	8.4	92	100...305	142...431
ELG-200-36B	200	36	5.55	92	100...305	142...431
ELG-200-42B	200	42	4.76	92	100...305	142...431
ELG-200-48B	200	48	4.16	93	100...305	142...431
ELG-200-54B	200	54	3.72	93	100...305	142...431

Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Efficiency [%]	Sup. volt. [V AC]	Sup. volt. [V DC]
ELG-240-24B	240	24	10	92	100...305	142...431
ELG-240-36B	240	36	6.66	92	100...305	142...431
ELG-240-42B	240	42	5.71	92	100...305	142...431
ELG-240-48B	240	48	5	93	100...305	142...431
ELG-240-54B	240	54	4.45	93	100...305	142...431

Power supply: switching; LED; constant current, constant voltage; ELG DA; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : LED
 Operating modes : constant voltage, constant current
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Additional functions : DALI interface;
 active PFC
 Supply voltage : 100...305V AC
 Supply voltage : 142...431V DC
 IP rating : IP67
 Power consumption without load : <0.5W
 Communications protocol : DALI
 Lead length : 300mm

Symbol	Power [W]	Output voltage [V DC]	Output current [mA]	Efficiency [%]
ELG-75-12DA	60	12	5000	85
ELG-75-24DA	75	24	3150	88
ELG-75-36DA	75	36	2100	89
ELG-75-42DA	75	42	1800	90
ELG-75-48DA	75	48	1600	90
ELG-100-24DA	100	24	4000	88
ELG-100-36DA	100	36	2660	89
ELG-100-42DA	100	42	2280	90
ELG-100-48DA	100	48	2000	90
ELG-100-54DA	100	54	1780	91
ELG-150-12DA	120	12	10000	88
ELG-150-24DA	150	24	6250	89
ELG-150-36DA	150	36	4170	90
ELG-150-42DA	150	42	3570	90
ELG-150-48DA	150	48	3130	90
ELG-150-54DA	150	54	2800	91
ELG-200-12DA	192	12	16000	90
ELG-200-24DA	200	24	8400	92
ELG-200-36DA	200	36	5550	92
ELG-200-42DA	200	42	4760	92
ELG-200-48DA	200	48	4160	93
ELG-200-54DA	200	54	3720	93
ELG-240-24DA	240	24	10000	92
ELG-240-36DA	240	36	6660	92
ELG-240-42DA	240	42	5710	92
ELG-240-48DA	240	48	5000	93
ELG-240-54DA	240	54	4450	93

Power supply: switching; LED; constant current; ELG C DA; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : LED
 Operating modes : constant current
 Protection : anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Additional functions : DALI interface;
 active PFC
 Supply voltage : 100...305V AC
 Supply voltage : 142...431V DC
 IP rating : IP67
 Operating temperature : -40...85°C
 Power consumption without load : <0.5W
 Communications protocol : DALI
 Lead length : 300mm

cont. on the next page

Power supplies

Power supply: switching; LED; constant current; ELG C DA; MEAN WELL (cont.)

Symbol	Power [W]	Output current [mA]	Output voltage [V DC]	Efficiency [%]
ELG-75-C350DA	75	350	107...214	91
ELG-75-C500DA	75	500	75...150	91
ELG-75-C700DA	75	700	53...107	90
ELG-75-C1050DA	75	1050	35...71	90
ELG-75-C1400DA	75	1400	27...54	90
ELG-100-C350DA	100	350	143...286	92
ELG-100-C500DA	100	500	100...200	91
ELG-100-C700DA	100	700	71...143	90
ELG-100-C1050DA	100	1050	48...95	90
ELG-100-C1400DA	100	1400	35...72	90
ELG-150-C500DA	150	500	150...300	92
ELG-150-C700DA	150	700	107...214	92
ELG-150-C1050DA	150	1050	72...143	92
ELG-150-C1400DA	150	1400	54...107	91
ELG-150-C1750DA	150	1750	43...86	91
ELG-150-C2100DA	150	2100	36...72	91
ELG-200-C700DA	200	700	142...286	93
ELG-200-C1050DA	200	1050	95...190	93
ELG-200-C1400DA	200	1400	71...142	92
ELG-200-C1750DA	200	1750	57...114	92
ELG-200-C2100DA	200	2100	48...96	92
ELG-240-C700DA	240	700	172...343	93
ELG-240-C1050DA	240	1050	114...228	93
ELG-240-C1400DA	240	1400	86...171	93
ELG-240-C1750DA	240	1750	69...137	93

U _{sup}	: 127...431V AC		
Efficiency	: 94%		
Operating temperature	: -40...85°C		
Body dim.	: 252x90x43.8mm		
Communications protocol	: DALI		
Lead length	: 300mm		
Symbol	Power [W]	Output voltage [V DC]	Output current [mA]
HLG-320H-C700DA	300	214...428	700
HLG-320H-C1050DA	320	152...305	1050
HLG-320H-C1400DA	320	114...229	1400
HLG-320H-C1750DA	320	91...183	1750
HLG-320H-C2100DA	320	76...152	2100
HLG-320H-C2800DA	320	57...114	2800
HLG-320H-C3500DA	320	46...91	3500

Power supply: switching; LED; constant current, constant voltage; HLG D2; MEAN WELL



Manufacturer	: MEAN WELL		
Type of power supply	: switching		
Additional functions	: auxiliary standby output 5V DC; active PFC; Smart Timer Dimming		
IP rating	: IP67		
Electrical connection	: wires		
Kind of power supply	: LED		
Operating modes	: constant voltage, constant current		
Protection	: anti-overvoltage OVP, short circuit protection SCP, overheating OTP		
U _{sup}	: 127...431V DC		
U _{sup}	: 90...305V AC		
Operating temperature	: -40...90°C		
Body dim.	: 262x125x43.8mm		
Power	: 480W		
Lead length	: 300mm		
Symbol	Output voltage [V DC]	Output current [A]	Efficiency [%]
HLG-480H-42D2	42	11.4	95
HLG-480H-48D2	48	10	94
HLG-480H-54D2	54	8.9	95

Power supply: switching; LED; constant current; HLG C DA; MEAN WELL



Manufacturer	: MEAN WELL
Manufacturer series	: HLG C DA
Type of power supply	: switching
Additional functions	: DALI interface; active PFC
IP rating	: IP67
Electrical connection	: wires
Kind of power supply	: LED
Operating modes	: constant current
Protection	: anti-overvoltage OVP, short circuit protection SCP, overheating OTP
U _{sup}	: 90...305V DC

Power supply: switching; LED; XLG; MEAN WELL



Manufacturer	: MEAN WELL				
Kind of power supply	: LED				
IP rating	: IP67				
Type of power supply	: switching				
Power consumption without load	: <0.5W				
Electrical connection	: wires				
Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Supply voltage [V AC]	Efficiency [%]
XLG-20-H	20	18...30	700m	90...305	88
XLG-20-H-B	20	18...30	700m	90...305	88
XLG-20-M	20	25.2...42	500m	90...305	88.5
XLG-20-M-B	20	25.2...42	500m	90...305	88.5
XLG-20-L	20	32.4...54	350m	90...305	89
XLG-20-L-B	20	32.4...54	350m	90...305	89
XLG-25-A	25	22...54	0.25...1.05	90...305	88
XLG-25-AB	25	22...54	0.25...1.05	90...305	88
XLG-50-A	50	22...54	0.53...2.1	100...305	90
XLG-50-AB	50	22...54	0.53...2.1	100...305	90
XLG-50-H-DA2	50	27...56	900m...1400m	90...305	89
XLG-50-L-DA2	50	60...142	350m...700m	90...305	90
XLG-75-12-A	60	12	5	100...305	89
XLG-75-24-A	75	24	3.1	100...305	90
XLG-75-H-A	75	27...56	0.65...2.1	100...305	90
XLG-75-H-AB	75	27...56	0.65...2.1	100...305	90
XLG-75-H-DA2	75	27...56	1300m...2100m	100...305	90
XLG-75-L-A	75	53...107	0.35...1.05	100...305	91
XLG-75-L-AB	75	53...107	0.35...1.05	100...305	91
XLG-75-L-DA2	75	53...107	700m...1050m	100...305	90
XLG-100-12-A	96	12	8	100...305	92
XLG-100-24-A	96	24	4	100...305	92
XLG-100-H-A	100	27...56	0.875...2.78	100...305	91
XLG-100-H-AB	100	27...56	0.875...2.78	100...305	91
XLG-100-H-DA2	100	27...56	1750m...2780m	100...305	91
XLG-100-L-A	100	71...142	0.35...1.05	100...305	92
XLG-100-L-AB	100	71...142	0.35...1.05	100...305	92
XLG-100-L-DA2	100	71...142	700m...1050m	100...305	92.5
XLG-150-12-A	150	12	12.5	100...305	91
XLG-150-24-A	150	24	6.25	100...305	93
XLG-150-H-A	150	27...56	2.68...4.17	100...305	92
XLG-150-H-AB	150	27...56	2.68...4.17	100...305	92
XLG-150-H-DA2	150	27...56	2680m...4170m	100...305	92
XLG-150-M-A	150	60...107	1.4...2.1	100...305	92
XLG-150-M-AB	150	60...107	1.4...2.1	100...305	92
XLG-150-M-DA2	150	60...107	1400m...2100m	100...305	92.5
XLG-150-L-A	150	120...214	0.7...1.05	100...305	93
XLG-150-L-AB	150	120...214	0.7...1.05	100...305	93
XLG-150-L-DA2	150	120...214	700m...1050m	100...305	93
XLG-200-12-A	192	12	8...16	100...305	92
XLG-200-24-A	200	24	4.15...8.3	100...305	94
XLG-200-H-A	200	27...56	1.75...5.55	100...305	93
XLG-200-H-AB	200	27...56	1.75...5.55	100...305	93
XLG-200-H-DA2	200	27...56	3500m...5550m	100...305	93
XLG-200-L-A	200	142...285	0.35...1.05	100...305	94
XLG-200-L-AB	200	142...285	0.35...1.05	100...305	94
XLG-200-L-DA2	200	142...285	700m...1050m	100...305	94
XLG-240-H-A	240	27...56	2.4...6.66	100...305	91
XLG-240-H-AB	240	27...56	2.4...6.66	100...305	91
XLG-240-H-DA2	240	27...56	4280m...6660m	100...305	93
XLG-240-48-ABV	240	48	5	110...305	91
XLG-240-M-A	240	90...171	0.7...2.1	100...305	92
XLG-240-M-AB	240	90...171	0.7...2.1	100...305	92
XLG-240-M-DA2	240	90...171	1400m...2100m	100...305	93.5

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Power supply: switching; LED; XLG; MEAN WELL (cont.)

Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Supply voltage [V AC]	Efficiency [%]
XLG-240-L-A	240	178...342	0.35...1.05	100...305	93
XLG-240-L-AB	240	178...342	0.35...1.05	100...305	93
XLG-240-L-DA2	240	178...342	700m...1050m	100...305	94
XLG-320-H-DA2	315	30...56	5570m...7420m	100...305	92.5
XLG-320-M-DA2	315	74...148	2100m...2800m	100...305	93.5
XLG-320-L-DA2	315	150...300	1050m...1400m	100...305	94.5
XLG-320-V-A	320	12/24	13...18	100...305	93
XLG-320-H-A	320	30...56	2800m...7420m	100...305	92.5
XLG-320-H-AB	320	30...56	2800m...7420m	100...305	92.5
XLG-320-48-ABV	320	48	6.5	110...305	93.5
XLG-320-M-A	320	74...148	1050m...2800m	100...305	93.5
XLG-320-M-AB	320	74...148	1050m...2800m	100...305	93.5
XLG-320-L-A	320	150...300	500m...1400m	100...305	94.5
XLG-320-L-AB	320	150...300	500m...1400m	100...305	94.5

Protection:

- anti-overload OLP (XLG-240-48-ABV, XLG-320-V-A, XLG-320-H-A, XLG-320-H-AB, XLG-320-48-ABV, XLG-320-M-A, XLG-320-M-AB, XLG-320-L-A, XLG-320-L-AB)
- anti-overload OPP (XLG-25-A, XLG-25-AB, XLG-200-12-A, XLG-200-24-A, XLG-200-H-A, XLG-200-H-AB, XLG-200-L-A, XLG-200-L-AB, XLG-240-H-A, XLG-240-H-AB, XLG-240-M-A, XLG-240-M-AB, XLG-240-L-A, XLG-240-L-AB, XLG-50-A, XLG-50-AB, XLG-75-12-A, XLG-75-24-A, XLG-75-H-A, XLG-75-H-AB, XLG-75-L-A, XLG-75-L-AB, XLG-100-12-A, XLG-100-24-A, XLG-100-H-A, XLG-100-H-AB, XLG-100-L-A, XLG-100-L-AB, XLG-150-12-A, XLG-150-24-A, XLG-150-H-A, XLG-150-H-AB, XLG-150-M-A, XLG-150-M-AB, XLG-150-L-A, XLG-150-L-AB)
- anti-overvoltage OVP
- short circuit protection SCP
- overheating OTP

Lead length:

- 150mm (XLG-20-xxx)
- 300mm (XLG-25-A, XLG-25-AB, XLG-200-xxx, XLG-240-xxx, XLG-50-xxx, XLG-75-xxx, XLG-1xxx, XLG-320-xxx)

Symbol	Operating modes	Power [W]	Out. curr. [mA]	Out. volt. [V DC]	Sup. volt. [V AC]	Sup. volt. [V DC]
RACT25-700	constant current	25	700	18...36	198...264	-
RACT25-1050	constant current	25	1050	12...24	198...264	-
RACV04-12	constant voltage	4	330	12	90...264	-
RACV04-24	constant voltage	4	170	24	90...264	-
RACV06-12-LP	constant voltage	6	500	12	198...264	-
RACV06-24-LP	constant voltage	6	250	24	198...264	-
RACV12-12-LP	constant voltage	12	1000	12	198...264	-
RACV12-24-LP	constant voltage	12	500	24	198...264	-
RACTV20-12-LP	constant voltage	20	1670	12	198...264	-
RACTV20-24-LP	constant voltage	20	830	24	198...264	-

Additional functions (RACTxxx0):

- triac dimming function
- active PFC

Power supply: switching; LED; constant current; LCA; TRIDONIC



Manufacturer : TRIDONIC
 Manufacturer series : LCA
 Type of power supply : switching
 Kind of power supply : LED
 Operating modes : constant current
 Protection : no-load, anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Number of outputs : 1
 Supply voltage : 176...280V DC
 Supply voltage : 198...264V AC
 Electrical connection : terminal block
 Communications protocol : DALI

Symbol	Power [W]	Output current [mA]	Output voltage [V DC]
28000655	50	100...400	50...140
28000657	75	100...400	110...220
28000659	75	350...1050	40...110
28000661	100	250...700	80...220

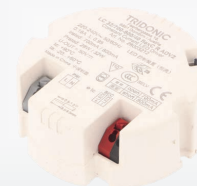
Power supply: switching; LED; RECOM



Manufacturer : RECOM
 Type of power supply : switching
 Kind of power supply : LED
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP, overheating OTP

Symbol	Operating modes	Power [W]	Out. curr. [mA]	Out. volt. [V DC]	Sup. volt. [V AC]	Sup. volt. [V DC]
RACD03-350	constant current	3	350	3...12	90...264	120...370
RACD03-500	constant current	3	500	3...9.5	90...264	120...370
RACD03-700	constant current	3	700	3...4.5	90...264	120...370
RACD04-350	constant current	4	350	3...12	90...264	-
RACD04-500	constant current	4	500	3...8	90...264	-
RACD04-700	constant current	4	700	3...6	90...264	-
RACD06-350	constant current	6	350	3...22	90...264	120...370
RACD06-500	constant current	6	500	3...12	90...264	120...370
RACD06-700	constant current	6	700	3...8.4	90...264	120...370
RACD06-350-LP	constant current	6	350	2...18	198...264	-
RACD06-500-LP	constant current	6	500	2...12	198...264	-
RACD06-700-LP	constant current	6	700	2...9	198...264	-
RACD07-250	constant current	7	250	14...28	90...295	120...415
RACD07-350	constant current	7	350	10...20	90...295	120...415
RACD07-500	constant current	7	500	5...14.5	90...295	120...415
RACD07-700	constant current	7	700	3...10.5	90...295	120...415
RACD12-350-LP	constant current	12	350	2...37	198...264	-
RACD12-500-LP	constant current	12	500	2...24	198...264	-
RACD12-700-LP	constant current	12	700	2...19	198...264	-
RACD20-350-LP	constant current	20	350	2...59	198...264	-
RACD20-500-LP	constant current	20	500	2...40	198...264	-
RACD20-700-LP	constant current	20	700	2...31	198...264	-
RACT09-350	constant current	9	350	13...26	198...264	-
RACT09-500	constant current	9	500	9...18	198...264	-
RACT09-700	constant current	9	700	7...13	198...264	-
RACT12-300	constant current	12	300	20...40	198...264	-
RACT12-350	constant current	12	350	18...35	198...264	-
RACT12-500	constant current	12	500	12...24	198...264	-
RACT12-700	constant current	12	700	9...18	198...264	-
RACT18-350	constant current	18	350	26...52	198...264	-
RACT18-500	constant current	18	500	18...36	198...264	-
RACT18-700	constant current	18	700	13...26	198...264	-
RACT18-1050	constant current	18	1050	9...18	198...264	-
RACT18-1400	constant current	18	1400	6.5...13	198...264	-
RACT25-500	constant current	25	500	25...50	198...264	-

Power supply: switching; LED; constant current; LC R ADV2; TRIDONIC



Manufacturer : TRIDONIC
 Type of power supply : switching
 Kind of power supply : LED
 Operating modes : constant current
 Manufacturer series : LC R ADV2
 IP rating : IP20
 U_{sup} : 198...264V AC
 Efficiency : 90%
 Electrical connection : terminal block, spring-loaded terminals
 Protection : no-load, anti-overload OPP, short circuit protection SCP

Symbol	Power [W]	Output voltage [V DC]	Output current [mA]	Body dim. [mm]
28003210	14	24...40	250...350	47.5x42.5x20
28003211	24	24...40	500...600	56x56x25
28003215	24	24...40	500...600	60.7x44.5x21
28003212	32	24...40	700...800	65x65x25
28003213	36	24...40	850...900	65x65x25

Power supply: switching; LED; constant current; LC SC ADV2; TRIDONIC



Manufacturer : TRIDONIC
 Type of power supply : switching
 Manufacturer series : LC SC ADV2
 Kind of power supply : LED
 Operating modes : constant current
 U_{sup} : 198...264V AC
 Electrical connection : terminal block, spring-loaded terminals
 IP rating : IP20
 Protection : no-load, anti-overload OPP, short circuit protection SCP
 Operating temperature : -20...50°C

Symbol	Power [W]	Output voltage [V DC]	Output current [mA]	Body dim. [mm]
87500891	25	30...42	600	97x43x30
87500893	34	30...60	800	97x43x30
87500895	44	30...60	1050	97x43x30
87500942	13	30...42	300	70x43x22.5

Power supply: switching; LED; constant current; LC SC ADV; TRIDONIC



Manufacturer : TRIDONIC
 Type of power supply : switching
 Manufacturer series : LC SC ADV
 Kind of power supply : LED
 Operating modes : constant current
 U_{sup} : 198...264V AC
 Operating temperature : -20...50°C
 IP rating : IP20
 Electrical connection : terminal block, spring-loaded terminals

Symbol	Power [W]	Output voltage [V DC]	Output current [mA]	Body dim. [mm]
28002490	25	21.4...44	600	105x70x28.3
28002492	35	25...45	800	105x70x28.3
28002493	40	25...45	900	105x70x28.3

Power supply: buffer; PSC; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : buffer
 Number of outputs : 2
 Protection : battery polarity, anti-overload OPP, anti-ovoltage OVP, short circuit protection SCP, discharge below

Additional functions : battery tester; UPS
 Supply voltage : 90...264V AC
 Supply voltage : 127...370V DC
 Operating temperature : -20...70°C

Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Output voltage 2 [V DC]	Output current 2 [A]
PSC-35A	35.88	13.8	1.7	13.8	0.9
PSC-35B	35.88	27.6	0.85	27.6	0.45
PSC-60A	59.34	13.8	2.8	13.8	1.5
PSC-60B	59.34	27.6	1.4	27.6	0.75
PSC-100A	100.05	13.8	4.75	13.8	2.5
PSC-100B	100.74	27.6	2.4	27.6	1.25
PSC-160A	160	13.8	7.6	13.8	4
PSC-160B	160	27.6	3.8	27.6	2
PSC-35A-C	35.88	13.8	1.7	13.8	0.9
PSC-35B-C	35.88	27.6	0.85	27.6	0.45
PSC-60A-C	59.34	13.8	2.8	13.8	1.5
PSC-60B-C	59.34	27.6	1.4	27.6	0.75

Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Output voltage 2 [V DC]	Output current 2 [A]
PSC-100A-C	100.05	13.8	4.75	13.8	2.5
PSC-100B-C	100.74	27.6	2.4	27.6	1.25
PSC-160A-C	160	13.8	7.6	13.8	4
PSC-160B-C	160	27.6	3.8	27.6	2

Power supply: switching; for building in, modular; RST-10000; MEAN WELL



Manufacturer : MEAN WELL
 Type of power supply : switching
 Kind of power supply : for building in, modular
 Number of outputs : 1
 Electrical connection : terminal block
 Protection : fan fail, anti-overload OPP, anti-ovoltage OVP, short circuit protection SCP, overheating OTP

Additional functions : active PFC; output voltage control; output current control; alarm signal output
 Operating temperature : -30...70°C

Voltage between phases (for three phase system) : 3 x 196...530V AC

Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Body dim. [mm]
RST-10000-24	9600	4.8...28.8	400	540x424x83.5
RST-10000-36	9936	7.2...43.2	276	540x424x83.5
RST-10000-48	10080	9.6...57.6	210	540x424x83.5

Converters

Converter: DC/DC; for building in; SD; MEAN WELL



Manufacturer : MEAN WELL
 Mounting : for building in
 Number of outputs : 1
 Insulation voltage : 2kV

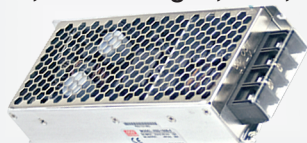
Symbol	Power [W]	Input voltage [V DC]	Output voltage [V DC]	Output current [A]	Body dim. [mm]
SD-100A-12	102	9.5...18	12	8.5	199x98x38
SD-100A-24	100.8	9.5...18	24	4.2	199x98x38
SD-100B-5	100	19...36	5	20	199x98x38
SD-100B-12	102	19...36	12	8.5	199x98x38
SD-100B-24	100.8	19...36	24	4.2	199x98x38
SD-100C-12	102	36...72	12	8.5	199x98x38
SD-100C-24	100.8	36...72	24	4.2	199x98x38
SD-100D-12	102	72...144	12	8.5	199x98x38
SD-100D-24	100.8	72...144	24	4.2	199x98x38
SD-150B-12	150	19...36	12	12.5	199x110x150
SD-150B-24	151.2	19...36	24	6.3	199x110x150
SD-150C-12	150	36...72	12	12.5	199x110x150
SD-150C-24	151.2	36...72	24	6.3	199x110x150
SD-150D-12	150	72...144	12	12.5	199x110x150
SD-150D-24	151.2	72...144	24	6.3	199x110x150
SD-200B-12	200.4	19...36	12	16.7	215x115x50
SD-200B-24	201.6	19...36	24	8.4	215x115x50
SD-200C-12	200.4	36...72	12	16.7	215x115x50
SD-200C-24	201.6	36...72	24	8.4	215x115x50
SD-200D-12	200.4	72...144	12	16.7	215x115x50
SD-200D-24	201.6	72...144	24	8.4	215x115x50
SD-350B-12	330	19...36	12	27.5	215x115x50
SD-350B-24	350.4	19...36	24	14.6	215x115x50
SD-350C-12	330	36...72	12	27.5	215x115x50
SD-350C-24	350.4	36...72	24	14.6	215x115x50
SD-350D-12	330	72...144	12	27.5	215x115x50
SD-350D-24	350.4	72...144	24	14.6	215x115x50
SD-500H-12	480	72...144	12	40	215x115x50
SD-500H-24	504	72...144	24	21	215x115x50
SD-500L-12	480	19...72	12	40	215x115x50
SD-500L-24	504	19...72	24	21	215x115x50

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Converter: DC/DC; for building in; SD; MEAN WELL (cont.)

Symbol	Power [W]	Input voltage [V DC]	Output voltage [V DC]	Output current [A]	Body dim. [mm]
SD-1000L-12	720	19...72	12	60	295x127x41
SD-1000L-24	960	19...72	24	40	295x127x41
SD-1000H-12	720	72...144	12	60	295x127x41
SD-1000H-24	960	72...144	24	40	295x127x41

Converter: DC/DC; for building in; RSD; MEAN WELL



Manufacturer : MEAN WELL
 Mounting : for building in
 Number of outputs : 1
 Insulation voltage : 4kV DC
 Type of converter : DC/DC
 Conform to the norm : EN 45545-2,
 EN 50121-3-2,
 EN 50155,
 IEC 60571,
 IEC 61373

Symbol	Power [W]	Input voltage [V DC]	Output voltage [V DC]	Output current [A]
RSD-30G-12	30	9...36	12	2.5
RSD-30L-12	30	18...72	12	2.5
RSD-30H-12	30	40...160	12	2.5
RSD-30G-24	30	9...36	24	1.25
RSD-30L-24	30	18...72	24	1.25
RSD-30H-24	30	40...160	24	1.25
RSD-60G-12	60	9...36	12	5
RSD-60L-12	60	18...72	12	5
RSD-60H-12	60	40...160	12	5
RSD-60G-24	60	9...36	24	2.5
RSD-60L-24	60	18...72	24	2.5
RSD-60H-24	60	40...160	24	2.5
RSD-100D-5	100	67.2...143	5	20
RSD-100B-12	100.8	16.8...31.2	12	8.4
RSD-100C-12	100.8	33.6...62.4	12	8.4
RSD-100D-12	100.8	67.2...143	12	8.4
RSD-100B-24	100.8	16.8...31.2	24	4.2
RSD-100C-24	100.8	33.6...62.4	24	4.2
RSD-100D-24	100.8	67.2...143	24	4.2
RSD-150B-12	150	16.8...31.2	12	12.5
RSD-150C-12	150	33.6...62.4	12	12.5
RSD-150D-12	150	67.2...143	12	12.5
RSD-150B-24	151.2	16.8...31.2	24	6.3
RSD-150C-24	151.2	33.6...62.4	24	6.3
RSD-150D-24	151.2	67.2...143	24	6.3
RSD-200B-12	200.4	16.8...31.2	12	16.7
RSD-200C-12	200.4	33.6...62.4	12	16.7
RSD-200D-12	200.4	67.2...143	12	16.7
RSD-200B-24	201.6	16.8...31.2	24	8.4
RSD-200C-24	201.6	33.6...62.4	24	8.4
RSD-200D-24	201.6	67.2...143	24	8.4
RSD-300B-5	210	16.8...31.2	5	42
RSD-300B-12	270	16.8...31.2	12	22.5
RSD-300B-24	271.2	16.8...31.2	24	11.3
RSD-300E-12	300	25.2...46.8	12	25
RSD-300C-12	300	33.6...62.4	12	25
RSD-300F-12	300	50.4...93.6	12	25
RSD-300D-12	300	67.2...143	12	25
RSD-300E-24	300	25.2...46.8	24	12.5
RSD-300C-24	300	33.6...62.4	24	12.5
RSD-300F-24	300	50.4...93.6	24	12.5
RSD-300D-24	300	67.2...143	24	12.5
RSD-500B-12	420	16.8...33.6	12	35
RSD-500C-12	420	33.6...67.2	12	35
RSD-500D-12	420	67.2...154	12	35
RSD-500B-24	420	16.8...33.6	24	17.5
RSD-500C-24	460.8	33.6...67.2	24	19.2
RSD-500D-24	499.2	67.2...154	24	20.8

Converter: DC/DC; TEN; TRACO POWER



Manufacturer : TRACO POWER
 Type of converter : DC/DC

Symbol	Case	Power [W]	Input voltage [V DC]	Output voltage [V DC]	Output current [mA]
TEN5-0511	DIP24	5	4.5...7	5	1000
TEN5-0512	DIP24	5	4.5...7	12	500
TEN5-1211	DIP24	5	9...18	5	1000
TEN5-1212	DIP24	5	9...18	12	500
TEN5-2411	DIP24	5	18...36	5	1000
TEN5-2412	DIP24	5	18...36	12	500
TEN5-4811	DIP24	5	36...75	5	1000
TEN5-4812	DIP24	5	36...75	12	500
TEN10-1211	2"x1"	10	9...18	5	2000
TEN10-1212	2"x1"	10	9...18	12	830
TEN10-1215	2"x1"	10	9...18	24	415
TEN10-2411	2"x1"	10	18...36	5	2000
TEN10-2412	2"x1"	10	18...36	12	830
TEN10-2415	2"x1"	10	18...36	24	415
TEN10-4811	2"x1"	10	36...75	5	2000
TEN10-4812	2"x1"	10	36...75	12	830
TEN10-4815	2"x1"	10	36...75	24	415
TEN20-1211	2"x1"	20	9...18	5	4000
TEN20-1212	2"x1"	20	9...18	12	1670
TEN20-2412	2"x1"	20	18...36	12	1670
TEN20-4811	2"x1"	20	36...75	5	4000
TEN20-4812	2"x1"	20	36...75	12	1670

Converter: DC/DC; 1W; AIMTEC



Manufacturer : AIMTEC
 Type of converter : DC/DC

Symbol	Case	Number of outputs	Input voltage [V DC]	Output voltage [V DC]	Output current [mA]	Insulation voltage [V DC]
AM1S-0303SZ	SIP4	1	2.97...3.63	3.3	303	1000
AM1S-0305SZ	SIP4	1	2.97...3.63	5	200	1000
AM1S-0307SZ	SIP4	1	2.97...3.63	7.2	139	1000
AM1S-0309SZ	SIP4	1	2.97...3.63	9	111	1000
AM1S-0312SZ	SIP4	1	2.97...3.63	12	83	1000
AM1S-0315SZ	SIP4	1	2.97...3.63	15	67	1000
AM1S-0318SZ	SIP4	1	2.97...3.63	18	56	1000
AM1S-0324SZ	SIP4	1	2.97...3.63	24	50	1000
AM1S-0503SZ	SIP4	1	4.5...5.5	3.3	300	1000
AM1S-0505SZ	SIP4	1	4.5...5.5	5	200	1000
AM1S-0507SZ	SIP4	1	4.5...5.5	7.2	139	1000
AM1S-0509SZ	SIP4	1	4.5...5.5	9	111	1000
AM1S-0512SZ	SIP4	1	4.5...5.5	12	83	1000
AM1S-0515SZ	SIP4	1	4.5...5.5	15	67	1000
AM1S-0518SZ	SIP4	1	4.5...5.5	18	56	1000
AM1S-0524SZ	SIP4	1	4.5...5.5	24	42	1000
AM1S-1203SZ	SIP4	1	10.8...13.2	3.3	300	1000
AM1S-1207SZ	SIP4	1	10.8...13.2	7.2	139	1000
AM1S-1209SZ	SIP4	1	10.8...13.2	9	110	1000
AM1S-1212SZ	SIP4	1	10.8...13.2	12	83	1000
AM1S-1215SZ	SIP4	1	10.8...13.2	15	67	1000
AM1S-1218SZ	SIP4	1	10.8...13.2	18	56	1000
AM1S-1224SZ	SIP4	1	10.8...13.2	24	42	1000
AM1S-2403SZ	SIP4	1	21.6...26.4	3.3	300	1000
AM1S-2405SZ	SIP4	1	21.6...26.4	5	200	1000
AM1S-2407SZ	SIP4	1	21.6...26.4	7.2	140	1000
AM1S-2409SZ	SIP4	1	21.6...26.4	9	110	1000
AM1S-2412SZ	SIP4	1	21.6...26.4	12	83	1000
AM1S-2415SZ	SIP4	1	21.6...26.4	15	67	1000
AM1S-2418SZ	SIP4	1	21.6...26.4	18	56	1000
AM1S-2424SZ	SIP4	1	21.6...26.4	24	42	1000
AM1S-4807SZ	SIP4	1	43.2...52.8	7.2	139	1000
AM1S-4815SZ	SIP4	1	43.2...52.8	15	67	1000
AM1S-4818SZ	SIP4	1	43.2...52.8	18	56	1000
AM1S-4824SZ	SIP4	1	43.2...52.8	24	42	1000

Converter: AC/DC; PCB; AME; AIMTEC



Manufacturer : AIMTEC
 Type of converter : AC/DC
 Mounting : PCB
 Input voltage:
 — 85...305V AC
 — 100...430V DC

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Converters

Converter: AC/DC; PCB; AME; AIMTEC (cont.)

Symbol	Power [W]	Output voltage [V DC]	Output current [A]
AMEM3-3S277HAVZ	3	3.3	0.9
AMEM3-5S277HAVZ	3	5	0.6
AMEM3-12S277HAVZ	3	12	0.25
AMEM3-15S277HAVZ	3	15	0.2
AMEM3-24S277HAVZ	3	24	0.125
AMEM5-3S277HAVZ	5	3.3	1.515
AMEM5-5S277HAVZ	5	5	1
AMEM5-24S277HAVZ	5	24	0.208
AMEL10-3S277HAVZ	8.6	3.3	2.6
AMEL10-5S277HAVZ	10	5	2
AMEL10-12S277HAVZ	10	12	0.83
AMEL10-24S277HAVZ	10	24	0.41
AMEL15-5S277HAVZ	15	5	3
AMEL15-12S277HAVZ	15	12	1.25
AMEL15-24S277HAVZ	15	24	0.625
AMEL30-3S277HAVZ	20	3.3	6
AMEL20-5S277HAVZ	20	5	4
AMEL20-9S277HAVZ	20	9	2.2
AMEL20-12S277HAVZ	20	12	1.67
AMEL30-5S277HAVZ	30	5	6
AMEL30-9S277HAVZ	30	9	3.4
AMEL30-12S277HAVZ	30	12	2.5
AMEL30-15S277HAVZ	30	15	2
AMEL30-24S277HAVZ	30	24	1.3

Converter: DC/DC; for DIN rail mounting; DDR; MEAN WELL



Manufacturer : MEAN WELL
 Mounting : for DIN rail mounting
 Number of outputs : 1
 Manufacturer series : DDR

Symbol	Power [W]	Output voltage [V DC]	Output current [A]
DDR-15G-12	15	12	1.25
DDR-15G-24	15	24	0.63
DDR-15L-12	15	12	1.25
DDR-15L-24	15	24	0.63
DDR-30G-12	30	12	2.5
DDR-30G-24	30	24	1.25
DDR-30L-12	30	12	2.5
DDR-30L-24	30	24	1.25
DDR-60G-12	60	12	5
DDR-60G-24	60	24	2.5
DDR-60L-12	60	12	5
DDR-60L-24	60	24	2.5
DDR-120A-12	99.6	12	8.3
DDR-120A-24	100.8	24	4.2
DDR-120B-12	120	12	10
DDR-120B-24	120	24	5
DDR-120C-12	120	12	10
DDR-120C-24	120	24	5
DDR-120D-12	120	12	10
DDR-120D-24	120	24	5
DDR-240B-24	240	24	10
DDR-240C-24	240	24	10
DDR-240D-24	240	24	10
DDR-480B-12	400.8	12	33.4
DDR-480B-24	480	24	20
DDR-480C-12	400.8	12	33.4
DDR-480C-24	480	24	20
DDR-480D-12	400.8	12	33.4
DDR-480D-24	480	24	20

Converter: DC/DC; CINCON



Manufacturer : CINCON
 Type of converter : DC/DC

Symbol	Power [W]	Input voltage [V DC]	Output voltage [V DC]	Output current [mA]	Conform to the norm
EC7BW-110S05	20	43...160	5	4000	EN 50155
EC7BW-110S12	20	43...160	12	1670	EN 50155
EC7BW-110S15	20	43...160	15	1330	EN 50155
EC7BW18-72S05	20	8.5...160	5	4000	EN 50155
EC7BW18-72S12	20	8.5...160	12	1670	EN 50155
EC7BW18-72S15	20	8.5...160	15	1330	EN 50155
ECLB40W-110S05	40	43...160	5	0...8000	-
ECLB40W-110S12	40	43...160	12	0...3333	-
ECLB40W-24S05	40	9...36	5	8000	-
ECLB40W-24S12	40	9...36	12	3333	-
ECLB40W-48S05	40	18...75	5	8000	-
ECLB40W-48S12	40	18...75	12	3333	-
ECLB40W-48S15	40	18...75	15	2666	-
ECLB60W-24S05	60	9...36	5	12000	-
ECLB60W-24S12	60	9...36	12	5000	-
ECLB60W-48S05	60	18...75	5	12000	-
ECLB60W-48S12	60	18...75	12	5000	-
ECLB75W-24S05	75	9...36	5	15000	-
ECLB75W-24S12	75	9...36	12	6250	-
ECLB75W-24S15	75	9...36	15	5000	-
ECLB75W-48S05	75	18...75	5	15000	-
ECLB75W-48S12	75	18...75	12	6250	-
ECLB75W-48S15	75	18...75	15	5000	-

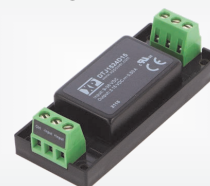
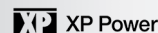
Converter: DC/DC; for DIN rail mounting; DDA; TDK-LAMBDA



Manufacturer : TDK-LAMBDA
 Mounting : for DIN rail mounting
 Electrical connection : screw terminals
 Additional functions : adjustable output voltage; LED status indicator
 Protection : over current OCP, anti-overvoltage OVP, overheating OTP
 Body dim. : 36.5x123.4x115mm
 Operating temperature : -40...100°C
 Type of converter : DC/DC
 U_{out} : 12V DC
 Manufacturer series : DDA
 Indication : LED

Symbol	Power [W]	Output current [A]
DDA250N-S1PX-12001	250	20
DDA325ND2PN1212001	250/75	14
DDA500ND2PP1205001	250/250	20

Converter: DC/DC; XP POWER



Manufacturer : XP POWER
 Type of converter : DC/DC
 U_{insul} : 3000V DC
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP
 Operating temperature : -40...100°C

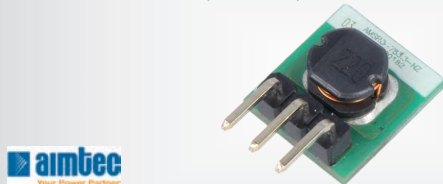
Symbol	Mounting	Series	Power [W]	Input voltage [V DC]	Output voltage [V DC]	Output current [A]
DTJ1524S3V3	on panel	DTJ15	15	9...36	3.3	3
DTJ1524D05	on panel	DTJ15	15	9...36	5	1.5
DTJ1524S05	on panel	DTJ15	15	9...36	5	3
DTJ1524D12	on panel	DTJ15	15	9...36	12	0.63
DTJ1524S12	on panel	DTJ15	15	9...36	12	1.25
DTJ1524D15	on panel	DTJ15	15	9...36	15	0.5
DTJ1524S15	on panel	DTJ15	15	9...36	15	1
DTJ1548S3V3	on panel	DTJ15	15	18...75	3.3	3
DTJ1548D05	on panel	DTJ15	15	18...75	5	1.5
DTJ1548S05	on panel	DTJ15	15	18...75	5	3
DTJ1548S12	on panel	DTJ15	15	18...75	12	1.25
DTJ1548D15	on panel	DTJ15	15	18...75	15	0.5

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Converter: DC/DC; XP POWER (cont.)

Symbol	Mounting	Series	Power [W]	Input voltage [V DC]	Output voltage [V DC]	Output current [A]
DTJ2024S3V3	on panel	DTJ20	20	9...36	3.3	5.5
DTJ2024D05	on panel	DTJ20	20	9...36	5	2
DTJ2024S05	on panel	DTJ20	20	9...36	5	4
DTJ2024D12	on panel	DTJ20	20	9...36	12	0.835
DTJ2024S12	on panel	DTJ20	20	9...36	12	1.67
DTJ2024D15	on panel	DTJ20	20	9...36	15	0.665
DTJ2024S15	on panel	DTJ20	20	9...36	15	1.33
DTJ2048S05	on panel	DTJ20	20	18...75	5	4
DTJ2048D12	on panel	DTJ20	20	18...75	12	0.835
DTJ2048S12	on panel	DTJ20	20	18...75	12	1.67

Converter: DC/DC; AMSR; AIMTEC



Manufacturer : AIMTEC
 Type of converter : DC/DC
 Operating temperature : -40...85°C

Symbol	Power [W]	Case	Input voltage [V DC]	Output voltage [V DC]	Output current [A]
AMSR-783.3Z	1.65	SIP3	4.75...34	3.3	0.5
AMSSL-783.3JZ	1.65	-	4.75...36	3.3	0.5
AMSR-7805Z	2.5	SIP3	6.5...34	5	0.5
AMSSL-7805JZ	2.5	-	6.5...36	5	0.5
AMSRB-7805Z	2.5	SIP3	7...28	5	0.5
AMSR-787.2Z	3.6	SIP3	9...34	7.2	0.5
AMSR1-7805Z	5	SIP3	6.5...18	5	1
AMSRB-7812Z	6	SIP3	14...28	12	0.5
AMSR-7812-NZ	6	SIP3	15...32	12	0.5
AMSR-7812Z	6	SIP3	15...34	12	0.5

Converter: DC/DC; RECOM



Manufacturer : RECOM

Symbol	Case	Input voltage [V DC]	Output voltage [V DC]	Output current [A]
R-78B1.2-2.0	SIP3	4.75...32	1.2	2
R-781.5-0.5	SIP3	4.75...30	1.5	0.5
R-78B1.5-2.0	SIP3	4.75...32	1.5	2
R-781.8-0.5	SIP3	4.75...32	1.8	0.5
R-781.8-1.0	SIP3	4.75...18	1.8	1
R-78B1.8-1.0	SIP3	4.75...26	1.8	1
R-78B1.8-2.0	SIP3	4.75...32	1.8	2
R-78S1.8-0.1	SIP4	650m...1.3	1.8	0.1
R-782.5-0.5	SIP3	4.75...32	2.5	0.5
R-782.5-1.0	SIP3	4.75...18	2.5	1
R-78B2.5-1.0	SIP3	4.75...32	2.5	1
R-78B2.5-2.0	SIP3	4.75...32	2.5	2
R-783.3-0.5	SIP3	4.75...32	3.3	0.5
R-783.3-1.0	SIP3	4.75...18	3.3	1
R-78B3.3-1.0	SIP3	4.75...32	3.3	1
R-78B3.3-1.5	SIP3	4.75...18	3.3	1.5
R-78B3.3-2.0	SIP3	4.75...32	3.3	2
R-78S3.3-0.1	SIP4	650m...3.15	3.3	0.1
R-78W3.3-0.5	SIP3	6.5...32	3.3	0.5
R-78S3.6-0.1	SIP4	650m...3.3	3.6	0.1
R-785.0-0.5	SIP3	6.5...32	5	0.5
R-785.0-1.0	SIP3	6.5...18	5	1
R-78B5.0-1.0	SIP3	6.5...32	5	1
R-78B5.0-1.5	SIP3	6.5...18	5	1.5
R-78B5.0-2.0	SIP3	6.5...32	5	2
R-78W5.0-0.5	SIP3	6.5...32	5	0.5
R-786.5-0.5	SIP3	8...32	6.5	0.5
R-78B6.5-1.0	SIP3	9...32	6.5	1
R-78B6.5-1.5	SIP3	8...18	6.5	1.5
R-789.0-0.5	SIP3	11...32	9	0.5
R-78B9.0-1.0	SIP3	12...32	9	1

Symbol	Case	Input voltage [V DC]	Output voltage [V DC]	Output current [A]
R-78B9.0-2.0	SIP3	11...32	9	2
R-78W9.0-0.5	SIP3	11...32	9	0.5
R-7812-0.5	SIP3	15...32	12	0.5
R-78B12-1.0	SIP3	16...32	12	1
R-78B12-2.0	SIP3	15...32	12	2
R-78W12-0.5	SIP3	15...32	12	0.5
R-7815-0.5	SIP3	18...32	15	0.5
R-78B15-1.0	SIP3	20...32	15	1
R-78B15-2.0	SIP3	18...32	15	2

Converter: AC/DC; PCB; MEAN WELL



Manufacturer : MEAN WELL
 Type of converter : AC/DC
 Number of outputs : 1
 Protection : anti-overload OPP, anti-overvoltage OVP, short circuit protection SCP

Symbol	Power [W]	Output voltage [V DC]	Out. curr. [mA]	Efficiency [%]	Body dim. [mm]
IRM-01-5	1	5	200	70	33.7x22.2x15
IRM-01-12	1	12	83	74	33.7x22.2x15
IRM-01-24	1	24	42	77	33.7x22.2x15
IRM-02-5	2	5	400	70	33.7x22.2x15
IRM-02-12	2	12	167	74	33.7x22.2x15
IRM-02-24	2	24	83	77	33.7x22.2x15
IRM-03-5	3	5	600	72	37x24x15
IRM-03-12	3	12	250	78	37x24x15
IRM-03-24	3	24	125	80	37x24x15
IRM-05-5	5	5	1000	71	45.7x25.4x21.5
IRM-05-12	5.04	12	420	75	45.7x25.4x21.5
IRM-05-24	5.52	24	230	77	45.7x25.4x21.5
IRM-10-5	10	5	2000	77	45.7x25.4x21.5
IRM-10-24	10.08	24	420	82	45.7x25.4x21.5
IRM-10-12	10.2	12	850	82	45.7x25.4x21.5
IRM-15-5	15	5	3000	78	52.4x27.2x24
IRM-15-12	15	12	1250	82	52.4x27.2x24
IRM-15-24	15.12	24	630	83	52.4x27.2x24
IRM-20-12	21.6	12	1800	84	52.4x27.2x24
IRM-20-24	21.6	24	900	85	52.4x27.2x24
IRM-30-12	30	12	2500	88	69.5x39x24
IRM-30-24	31.2	24	1300	88.5	69.5x39x24
IRM-45-12	45.6	12	3800	87.5	87x52x29.5
IRM-45-24	45.6	24	1900	89.5	87x52x29.5
IRM-60-5	50	5	10000	84	87x52x29.5
IRM-60-12	60	12	5000	87.5	87x52x29.5
IRM-60-24	60	24	2500	90	87x52x29.5
IRM-90-12	80	12	6700	92	87x52x29.5
IRM-90-24	90	24	3750	93	87x52x29.5

Information: more products from this series available on www.tme.eu. Input voltage: 80...305V AC (IRM-90-12, IRM-90-24), 85...264V AC (IRM-05-xx, IRM-1xxx, IRM-20-12, IRM-20-24, IRM-30-12, IRM-30-24, IRM-45-12, IRM-45-24, IRM-60-xx), 85...305V AC (IRM-01-xx, IRM-02-xx, IRM-03-xx), 113...431V DC (IRM-90-12, IRM-90-24), 120...370V DC (IRM-05-xx, IRM-1xxx, IRM-20-12, IRM-20-24), 120...430V DC (IRM-01-xx, IRM-02-xx).

Converter: AC/DC; PCB; TMPS; TRACO POWER



Manufacturer : TRACO POWER
 Mounting : PCB
 Operating temperature : -25...70°C
 Type of converter : AC/DC
 Input voltage : 85...264V AC, 120...370V DC

Symbol	Power [W]	Output voltage [V DC]	Output current [mA]
TMPS03-103	3	3.3	900
TMPS03-105	3	5	600
TMPS03-109	3	9	333
TMPS03-112	3	12	250
TMPS03-115	3	15	200
TMPS03-124	3	24	125
TMPS05-103	5	3.3	1515
TMPS05-105	5	5	1000

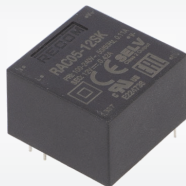
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Converters

Converter: AC/DC; PCB; TMPS; TRACO POWER (cont.)

Symbol	Power [W]	Output voltage [V DC]	Output current [mA]
TMPS05-109	5	9	555
TMPS05-112	5	12	416
TMPS05-115	5	15	333
TMPS05-124	5	24	208
TMPS05-148	5	48	104
TMPS10-103	10	3.3	2600
TMPS10-105	10	5	2000
TMPS10-109	10	9	1100
TMPS10-112	10	12	830
TMPS10-115	10	15	660
TMPS10-124	10	24	410
TMPS10-148	10	48	210
TMPS15-105	15	5	3000
TMPS15-112	15	12	1250
TMPS15-115	15	15	1000
TMPS15-124	15	24	625
TMPS15-148	15	48	313

Converter: AC/DC; RECOM



RECOM

Manufacturer : RECOM

Symbol	Power [W]	Output voltage [V DC]	Output current [mA]	Efficiency [%]
RAC01-3.3SC	1	3.3	300	65
RAC01-05SC	1	5	200	68
RAC01-09SC	1	9	111	70
RAC01-12SC	1	12	83	72
RAC01-15SC	1	15	67	72
RAC01-24SC	1	24	42	73
RAC02-3.3SC	2	3.3	600	66
RAC02-05SC	2	5	400	70
RAC02-09SC	2	9	222	72
RAC02-12SC	2	12	167	74
RAC02-15SC	2	15	133	74
RAC02-24SC	2	24	83	77
RAC03-3.3SC	3	3.3	900	67
RAC03-3.8SC	3	3.8	789	67
RAC03-05SC	3	5	600	72
RAC03-12SC	3	12	250	76
RAC03-24SC	3	24	125	78
RAC05-3.3SK	5	3.3	1515	76
RAC05-05SK	5	5	1000	80
RAC05-12SK	5	12	416	81
RAC05-15SK	5	15	333	82
RAC05-24SK	5	24	210	84
RAC10-05SC/277	10	5	2000	78
RAC10-12SC/277	10	12	840	80
RAC10-15SC/277	10	15	670	78
RAC10-24SC/277	10	24	420	80
RAC15-05SK	15	5	3000	84
RAC15-12SK	15	12	1670	86
RAC15-15SK	15	15	1000	86
RAC15-24SK	15	24	630	85
RAC20-05SK/277	20	5	4000	84
RAC20-12SK/277	20	12	1670	86
RAC20-15SK/277	20	15	1333	86
RAC20-24SK/277	20	24	830	85

Input voltage:

- 80...264V AC (RAC0xxxSC)
- 80...305V AC (RAC10-xxSC/277)
- 85...264V AC (RACxxxSK)
- 85...305V AC (RAC20-xxSK/277)
- 113...430V DC (RAC10-xxSC/277)
- 115...370V DC (RAC0xxxSC)
- 120...370V DC (RACxxxSK)
- 120...430V DC (RAC20-xxSK/277)

Converter: AC/DC; THT; TDK-LAMBDA



TDK-Lambda

Manufacturer : TDK-LAMBDA

Type of converter : AC/DC

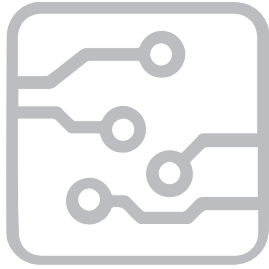
Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Efficiency [%]	Input voltage [V AC]
KPSB6-3R3	6	3.3	1.5	75	90...264
KPSB6-5	6	5	1.2	78	90...264
KPSB6-9	6	9	0.67	81	90...264
KPSB6-12	6	12	0.5	81	90...264
KPSB6-15	6	15	0.4	81	90...264
KPSB6-24	6	24	0.25	83	90...264
KPSB25-5	25	5	4	81	90...264
KPSB25-12	25	12	2.1	84	90...264
KPSB25-15	25	15	1.67	85	90...264
KPSB25-24	25	24	1.05	86	90...264
KPSB25-36	25	36	0.7	87	90...264
KPSB25-48	25	48	0.52	87	90...264

Converter: AC/DC; PCB; CINCON



Manufacturer : CINCON

Symbol	Power [W]	Output voltage [V DC]	Output current [A]	Input voltage
CFM04S033	4	3.3	1.2	85...305V AC, 120...431V DC
CFM04S050	4	5	0.8	85...305V AC, 120...431V DC
CFM04S120	4	12	0.333	85...305V AC, 120...431V DC
CFM04S150	4	15	0.266	85...305V AC, 120...431V DC
CFM04S240	4	24	0.166	85...305V AC, 120...431V DC
CFM06S120	6	12	0.5	90...264V AC, 120...370V DC
CFM06S150	6	15	0.4	90...264V AC, 120...370V DC
CFM06S240	6	24	0.25	90...264V AC, 120...370V DC
CFM12S050	12	5	2	90...264V AC, 120...370V DC
CFM12S120	12	12	1	90...264V AC, 120...370V DC
CFM12S150	12	15	0.8	90...264V AC, 120...370V DC
CFM12S240	12	24	0.5	90...264V AC, 120...370V DC
CFM20S050	20	5	4	90...264V AC, 120...370V DC
CFM20S120	20	12	1.67	90...264V AC, 120...370V DC
CFM20S240	20	24	0.83	90...264V AC, 120...370V DC
CFM20S480	20	48	0.42	90...264V AC, 120...370V DC



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Embedded systems

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Embedded systems

Embedded systems

MPLAB® ICE 4 Programmer by Microchip



Associated circuits : AVR;
dsPIC;
PIC;
SAM MCU;
SAM MPU

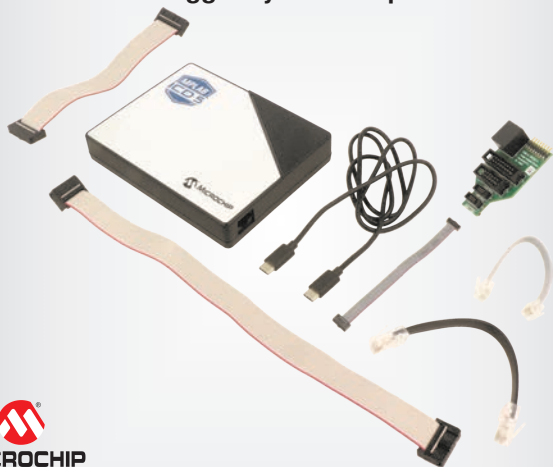
Interface : Ethernet; ISP; JTAG; USB 2.0; USB 3.0; WiFi

Communication with PC : RJ45 Ethernet, USB, WiFi

Kit contents : JTAG / SWD / ISP adapters;
USB C cable;
programmer;
power supply

Symbol Product description
MPLAB-ICE4 Programmer:microcontrollers;AVR,dsPIC,PIC,SAM MCU,SAM MPU

MPLAB® ICD 5 Debugger by Microchip



Associated circuits : AVR;
DSC;
dsPIC;
PIC;
SAM MCU;
SAM MPU

Interface : Ethernet; ICSP; JTAG; SWD; UART; USB

Communication with PC : RJ45 Ethernet, USB

Kit contents : adapter JTAG / SWD / ISP;
USB cable;
programmer

Symbol Product description
MPLAB-ICD5 Programmer:microcontrollers;RJ45 Ethernet,USB

MPLAB® PICkit 5 Debugger by Microchip



MICROCHIP

Associated circuits : AVR;
dsPIC;
PIC;
SAM MCU;
SAM MPU

Interface : ICSP; JTAG; SWD; USB

Kind of connector : pin strips;
microSD;
USB C

Operating modes : PC Host mode, standalone programmer

Kit contents : USB cable;
programmer

Bluetooth version : 5.0

Symbol Product description
PICKIT-5-ICD Programmer:microcontrollers;AVR,dsPIC,PIC,SAM MCU,SAM MPU

ST-LINK/V2 Programmers by STMicroelectronics



Associated circuits : STM32;
STM8

Interface : JTAG; SWD; SWIM; USB

Communication with PC : USB

Kind of connector : JTAG;
USB

Symbol Features
ST-LINK/V2-ISOL JTAG galvanic separation

STLINK-V3SET Programmer by STMicroelectronics



Associated circuits : STM32;
STM8

Interface : CAN; GPIO; I2C; JTAG; SPI; SWD; USB

cont. on the next page

Kind of connector : pin strips;
USB

Communication with PC : USB

Symbol Product description

STLINK-V3SET Programmer:microcontrollers;STM32,STM8;USB;pin strips,USB

TELTONIKA modules, routers and gateways



Symbol	Module	Kind of network	Interface	Kind of connector
RUT241	router LTE	2G, 3G, 4G, LTE CAT 4	4G; Ethernet; RJ45 x2; SIM	RJ45 x2; SIM; SMA x2; power supply
RUT360	router LTE	4G, LTE CAT 6	4G; Ethernet; SIM	RJ45 x2; SIM; SMA x2; power supply
RUT951	router LTE	2G, 3G, 4G, LTE CAT 6	4G; Ethernet; RJ45 x4; SIM x2	RJ45 x4; SIM x2; SMA; power supply
RUT956	router LTE	2G, 3G, 4G, LTE CAT 4	4G; Ethernet; RJ45 x4; RS232; RS485; SIM x2	RJ45 x4; RS232; RS485; SIM x2; SMA x2; USB A
RUTX09	router LTE	4G, LTE CAT 6	Ethernet; SIM x2; USB 2.0	RJ45 x4; SIM x2; SMA x3; USB A
RUTX11	router LTE	4G, LTE CAT 6	Ethernet; SIM x2; USB 2.0; WiFi	RJ45 x4; SIM x2; SMA x6; USB A; power supply
RUTX12	router LTE	4G, LTE CAT 6	4G; Ethernet x5; SIM x2; USB 2.0	RJ45 x5; SIM x2; USB A; power supply
RUTX14	router LTE	3G, 4G, LTE CAT 12	4G; Ethernet; SIM x2	RJ45 x5; SIM x2; SMA x8; USB A socket; power supply
RUTXR1	router LTE	3G, 4G, LTE CAT 6	4G; Ethernet x5; RS232; SFP; SIM x2; USB 2.0; WiFi	RJ45 x5; SFP; SIM x2; SMA x2; USB; power supply
TRB140	gateway	2G, 3G, 4G, LTE CAT 4	Ethernet; SIM; USB	RJ45; SIM; SMA; USB micro; power supply
TRB141	gateway	2G, 3G, 4G, LTE CAT 1	1-wire; USB	SIM; SMA; USB micro
TRB142	gateway	2G, 3G, 4G, LTE CAT 1	microSD; RS232; SIM	D-Sub 9pin; SIM; SMA; USB micro
TRB145	gateway	2G, 3G, 4G, LTE CAT 1	microSD; RS485; SIM	SIM; SMA; USB micro
TRB245	gateway	2G, 3G, 4G, LTE	Ethernet; RS232; RS485; SIM x2	RJ45; SIM; power supply
TRB255	gateway	2G, 4G, LTE CAT M, NB-IoT	Ethernet; RS232; RS485; SIM x2	RJ45; SIM; power supply
TRM240	LTE modem	2G, 3G, 4G, LTE CAT 1	SIM; USB	SIM; SMA; USB micro
TRM250	LTE modem	2G, 3G, 4G, LTE	SIM; USB	SIM; SMA; USB micro

BEEPROG programmers by ELNEC

Manufacturer : ELNEC
Programmer : universal



Symbol Communication with PC

BEEPROG2 LPT, USB

BEEPROG2C USB

BEEPROG3 RJ45 Ethernet, USB

BEEPROG2AP USB

Symbol	BEEPROG2	BEEPROG2C	BEEPROG3	BEEPROG2AP
Associated circuits				
- ARM7	x	x	x	x
- ARM9	x	x	x	x
- AVR	x	x	x	x
- AVR32	x		x	x
- CYPRESS	x	x	x	x
- EEPROM	x	x	x	x
- EPROM	x	x	x	x
- FLASH	x	x	x	x
- MCS-48	x		x	x
- MCS-51	x	x	x	x
- NV RAM	x	x	x	x
- PIC	x	x	x	x
- PLD ALTERA	x	x	x	x
- PLD LATTICE	x	x	x	x
- PLD XILINX	x	x	x	x
- PSoC	x	x	x	x
- SILICON LABS	x	x	x	x
- STMicroelectronics	x	x	x	x
- TEXAS INSTRUMENTS	x	x	x	x
- ZILOG	x	x	x	x

Features:

- programming voltage within the range 1.8 to 26V; ground and supply voltage can be switched to any pin
- can program 28273 ICs (**BEEPROG3**)
- possibility of programming 53054 integrated circuits (**BEEPROG2xx**)

- possibility of ISP programming
- test contact between IC and programmer's socket
- Connectors for the country (**BEEPROG2**, **BEEPROG2C**):
- Europe

FLASHER programmers by SEGGER



Operating system : Linux, Mac OS, Windows

Symbol	Manufacturer's part number	Interface
FLASHER-ARM	5.07.01 FLASHER ARM	Ethernet; JTAG; RS232; SWD; USB
FLASHER-COMPACT	5.19.00 FLASHER COMPACT	JTAG; SWD; USB
FLASHER-PORTABLE+	5.16.02 FLASHER PORTABLE PLUS	JTAG; SWD; USB
FLASHER-PRO	5.17.01 FLASHER PRO	Ethernet; JTAG; RS232; SWD; USB
FLASHER-PRO-XL	5.17.02 FLASHER PRO XL	Ethernet; JTAG; RS232; SWD; USB
FLASHER-ATE2	5.21.00 FLASHER ATE2	Ethernet; JTAG; RS232; SWD; USB
Symbol	Associated circuits	
FLASHER-ARM	ARM Cortex M; ARM7; ARM9	
FLASHER-COMPACT	ARM Cortex M; ARM7; ARM9; PowerPC e200; RENESAS RX	
FLASHER-PORTABLE+	ARM Cortex M; ARM7; ARM9; PowerPC e200; RENESAS RX	
FLASHER-PRO	ARM Cortex M; ARM7; ARM9; PowerPC e200; RENESAS RX	
FLASHER-PRO-XL	ARM Cortex M; ARM7; ARM9; PowerPC e200; RENESAS RX	
FLASHER-ATE2	ARM Cortex M; ARM7; ARM9; PowerPC e200; RENESAS RX	

EEPROM, FLASH and FRAM serial memory programmers from REVELTRONICS



Programmer : memory
 Communication with PC : USB
 Operating modes : PC Host mode
 Interface : 1-wire; I2C; Microwire; SPI
 Kind of interface : serial
 Kind of connector : IDC10;
 SO8 socket;
 ZIF 32pin socket

Kit contents : USB cable;
 programmer;
 cable for "in circuit" programming

Communication protocol analysers by TOTAL PHASE



Development kit : protocol analyser

Symbol	Manufacturer's part number	Interface
TP240141	AARDVARK I2C/SPI HOST ADAPTER	GPIO; I2C; SPI; USB 2.0
TP320121	BEAGLE I2C/SPI PROTOCOL ANALYZER	I2C; MDIO; SPI; USB 2.0
TP280121	CHEETAH SPI HOST ADAPTER	SPI Master; USB 2.0
TP360110	KOMODO CAN DUO INTERFACE	CAN x2; GPIO; USB 2.0
TP320510	BEAGLE USB 480 PROTOCOL ANALYZER	GPIO; USB 2.0
TP320221	BEAGLE USB 12 PROTOCOL ANALYZER	USB 2.0
TP322610	BEAGLE USB 5000 V2 - ULTIMATE EDITION	USB 3.0
TP323610	BEAGLE USB 480 POWER PROT. ANALYZER ULT.	USB 2.0

CM4S Compute Modules by Raspberry Pi



Type of minicomputer : SOM
 Architecture : Cortex A72
 Processor : BCM2711
 Clock frequency : 1.5GHz
 Kind of connector : SO DIMM 200
 Dimensions : 67.6x31 mm
 Operating temperature : -20...85°C

Symbol	Memory [GB]	Trade name
SC01762	2 RAM	RPI CM4S CM4S02000 2GB RAM, integrated compute module
SC01763	2 RAM, 8 FLASH	RPI CM4S CM4S02008 2GB RAM 8GB EMMC, integrated compute module
SC01764	2 RAM, 16 FLASH	RPI CM4S CM4S02016 2GB RAM 16GB EMMC, integrated compute module
SC01765	2 RAM, 32 FLASH	RPI CM4S CM4S02032 2GB RAM 32GB EMMC, integrated compute module
SC01766	4 RAM	RPI CM4S CM4S04000 4GB RAM, integrated compute module
SC01767	4 RAM, 8 FLASH	RPI CM4S CM4S04008 4GB RAM 8GB EMMC, integrated compute module
SC01768	4 RAM, 16 FLASH	RPI CM4S CM4S04016 4GB RAM 16GB EMMC, integrated compute module
SC01769	4 RAM, 32 FLASH	RPI CM4S CM4S04032 4GB RAM 32GB EMMC, integrated compute module
SC01770	8 RAM	RPI CM4S CM4S08000 8GB RAM, integrated compute module
SC01771	8 FLASH, 8 RAM	RPI CM4S CM4S08008 8GB RAM 8GB EMMC, integrated compute module
SC01772	8 RAM, 16 FLASH	RPI CM4S CM4S08016 8GB RAM 16GB EMMC, integrated compute module
SC01773	8 RAM, 32 FLASH	RPI CM4S CM4S08032 8GB RAM 32GB EMMC, integrated compute module
SC0762	1 RAM	RPI CM4S CM4S01000 1GB RAM, integrated compute module
SC0763	1 RAM, 8 FLASH	RPI CM4S CM4S01008 1GB RAM 8GB EMMC, integrated compute module
SC0764	1 RAM, 16 FLASH	RPI CM4S CM4S01016 1GB RAM 16GB EMMC, integrated compute module
SC0765	1 RAM, 32 FLASH	RPI CM4S CM4S01032 1GB RAM 32GB EMMC, integrated compute module

CM4 Compute Modules by Raspberry Pi



Type of minicomputer : SOM
 Architecture : Cortex A72
 Processor : BCM2711
 Clock frequency : 1.5GHz
 Dimensions : 55x40mm

Symbol	Trade name	Operating temperature [°C]
SC0667	RPI CM4 CM4102000 2GB RAM BLE, integrated compute module	-20...85
SC0667ET	RPI CM4 CM4102000ET 2GB RAM WIFI, integrated compute module	-20...85
SC0668	RPI CM4 CM4102008 2GB RAM 8GB EMMC BLE, integrated compute module	-20...85
SC0669	RPI CM4 CM4102016 2GB RAM 16GB EMMC BLE, integrated compute module	-20...85
SC0670	RPI CM4 CM4102032 2GB RAM 32GB EMMC BLE, integrated compute module	-20...85
SC0671	RPI CM4 CM4104000 4GB RAM BLE, integrated compute module	-20...85
SC0671ET	RPI CM4 CM4104000ET 4GB RAM WIFI, integrated compute module	-20...85
SC0672	RPI CM4 CM4104008 4GB RAM 8GB EMMC BLE, integrated compute module	-20...85
SC0673	RPI CM4 CM4104016 4GB RAM 16GB EMMC BLE, integrated compute module	-20...85
SC0673ET	RPI CM4 CM4104016ET 4GB RAM 16GB EMMC WI, integrated compute module	-20...85
SC0674	RPI CM4 CM4104032 4GB RAM 32GB EMMC BLE, integrated compute module	-20...85
SC0675	RPI CM4 CM4108000 8GB RAM BLE, integrated compute module	-20...85
SC0676	RPI CM4 CM4108008 8GB RAM 8GB EMMC BLE, integrated compute module	-20...85
SC0677	RPI CM4 CM4108016 8GB RAM 16GB EMMC BLE, integrated compute module	-20...85
SC0678	RPI CM4 CM4108032 8GB RAM 32GB EMMC BLE, integrated compute module	-20...85
SC0679	RPI CM4 CM4002000 2GB RAM, integrated compute module	-20...85
SC0679B	RPI CM4 CM4002000 2GB RAM, integrated compute module	-20...85
SC0679ET	RPI CM4 CM4002000ET 2GB RAM, integrated compute module	-40...85
SC0680	RPI CM4 CM4002008 2GB RAM 8GB EMMC, integrated compute module	-20...85
SC0681	RPI CM4 CM4002016 2GB RAM 16GB EMMC, integrated compute module	-20...85
SC0681B	RPI CM4 CM4002016 2GB RAM 16GB EMMC, integrated compute module	-20...85
SC0681ET	RPI CM4 CM0102016ET 2GB RAM 16GB EMMC, integrated compute module	-40...85
SC0682	RPI CM4 CM4002032 2GB RAM 32GB EMMC, integrated compute module	-20...85
SC0683	RPI CM4 CM4004000 4GB RAM, integrated compute module	-20...85

cont. on the next page

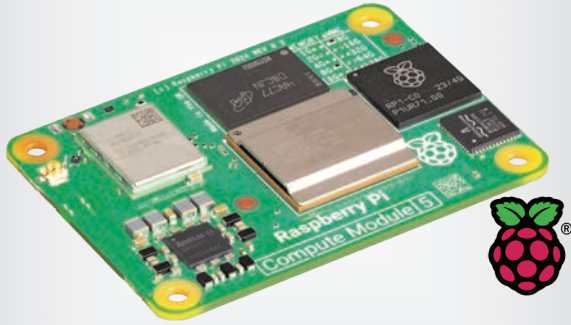
CM4 Compute Modules by Raspberry Pi (cont.)

Symbol	Trade name	Operating temperature [°C]
SC0683ET	RPI CM4 CM4004000ET 4GB RAM, integrated compute module	-40...85
SC0684	RPI CM4 CM4004008 4GB RAM 8GB EMMC, integrated compute module	-20...85
SC0685	RPI CM4 CM4004016 4GB RAM 16GB EMMC, integrated compute module	-20...85
SC0685ET	RPI CM4 CM4004016ET 4GB RAM 16GB EMMC, integrated compute module	-40...85
SC0686	RPI CM4 CM4004032 4GB RAM 32GB EMMC, integrated compute module	-20...85
SC0687	RPI CM4 CM4008000 8GB RAM, integrated compute module	-20...85
SC0688	RPI CM4 CM4008008 8GB RAM 8GB EMMC, integrated compute module	-20...85
SC0689	RPI CM4 CM4008016 8GB RAM 16GB EMMC, integrated compute module	-20...85
SC0690	RPI CM4 CM4008032 8GB RAM 32GB EMMC, integrated compute module	-20...85
SC0691	RPI CM4 CM4101000 1GB RAM BLE, integrated compute module	-20...85
SC0691ET	RPI CM4 CM4101000ET 1GB RAM WIFI, integrated compute module	-20...85
SC0692	RPI CM4 CM4101008 1GB RAM 8GB EMMC BLE, integrated compute module	-20...85
SC0693	RPI CM4 CM4101016 1GB RAM 16GB EMMC BLE, integrated compute module	-20...85
SC0693ET	RPI CM4 CM4101016ET 1GB RAM 16GB EMMC WI, integrated compute module	-20...85
SC0694	RPI CM4 CM4101032 1GB RAM 32GB EMMC BLE, integrated compute module	-20...85
SC0695	RPI CM4 CM4001000 1GB RAM, integrated compute module	-20...85
SC0695ET	RPI CM4 CM4001000ET 1GB RAM, integrated compute module	-40...85
SC0696	RPI CM4 CM4001008 1GB RAM 8GB EMMC, integrated compute module	-20...85
SC0697	RPI CM4 CM4001016 1GB RAM 16GB EMMC, integrated compute module	-20...85
SC0697ET	RPI CM4 CM4001016ET 1GB RAM 16GB EMMC, integrated compute module	-40...85
SC0698	RPI CM4 CM4001032 1GB RAM 32GB EMMC, integrated compute module	-20...85

Kit : for prototyping
 Processor : BCM2712
 Architecture : Cortex A76
 Clock frequency : 2.4GHz
 Memory : 4GB RAM, 32GB FLASH
 Ver. : wireless
 Communications protocol : IEEE 802.11ac/b/g/n, WIFI
 Bluetooth version : 5.0, BLE
 WiFi : 2,4GHz
 Kit contents : WiFi & BLE antenna; HDMI cable x2; USB A - USB C cable; SC1407; SC1595; SC1751; SC1752; SC1753

Symbol Product description
SC1926 Kit:for prototyping;Frequency:2.4GHz;Cortex A76;2,4GHz;CM5

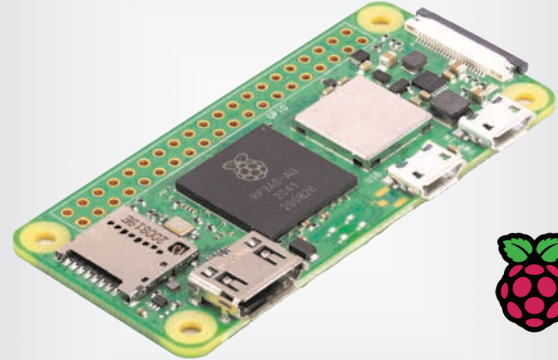
CM5 Compute Modules by Raspberry Pi



Type of microcomputer : SOM
 Architecture : Cortex A76
 Processor : BCM2712
 Clock frequency : 2.4GHz
 Kind of connector : PCIe 2.0
 Dimensions : 55x40mm
 Operating temperature : -20...85°C

Symbol	Trade name
SC1556	RPI CM5 CM5002000 2GB RAM, integrated compute module
SC1558	RPI CM5 CM5002016 2GB RAM 16GB EMMC, integrated compute module
SC1559	RPI CM5 CM5002032 2GB RAM 32GB EMMC, integrated compute module
SC1560	RPI CM5 CM5002064 2GB RAM 64GB EMMC, integrated compute module
SC1562	RPI CM5 CM5004000 4GB RAM, integrated compute module
SC1564	RPI CM5 CM5004016 4GB RAM 16GB EMMC, integrated compute module
SC1565	RPI CM5 CM5004032 4GB RAM 32GB EMMC, integrated compute module
SC1566	RPI CM5 CM5004064 4GB RAM 64GB EMMC, integrated compute module
SC1568	RPI CM5 CM5008000 8GB RAM, integrated compute module
SC1570	RPI CM5 CM5008016 8GB RAM 16GB EMMC, integrated compute module
SC1571	RPI CM5 CM5008032 8GB RAM 32GB EMMC, integrated compute module
SC1572	RPI CM5 CM5008064 8GB RAM 64GB EMMC, integrated compute module
SC1574	RPI CM5 CM5016000 16GB RAM, integrated compute module
SC1576	RPI CM5 CM5016016 16GB RAM 16GB EMMC, integrated compute module
SC1577	RPI CM5 CM5016032 16GB RAM 32GB EMMC, integrated compute module
SC1578	RPI CM5 CM5016064 16GB RAM 64GB EMMC, integrated compute module
SC1586	RPI CM5 CM5102000 2GB RAM BLE, integrated compute module
SC1588	RPI CM5 CM5102016 2GB RAM 16GB EMMC BLE, integrated compute module
SC1589	RPI CM5 CM5102032 2GB RAM 32GB EMMC BLE, integrated compute module
SC1590	RPI CM5 CM5102064 2GB RAM 64GB EMMC BLE, integrated compute module
SC1592	RPI CM5 CM5104000 4GB RAM BLE, integrated compute module
SC1594	RPI CM5 CM5104016 4GB RAM 16GB EMMC BLE, integrated compute module
SC1595	RPI CM5 CM5104032 4GB RAM 32GB EMMC BLE, integrated compute module
SC1596	RPI CM5 CM5104064 4GB RAM 64GB EMMC BLE, integrated compute module
SC1598	RPI CM5 CM5108000 8GB RAM BLE, integrated compute module
SC1600	RPI CM5 CM5108016 8GB RAM 16GB EMMC BLE, integrated compute module
SC1601	RPI CM5 CM5108032 8GB RAM 32GB EMMC BLE, integrated compute module
SC1602	RPI CM5 CM5108064 8GB RAM 64GB EMMC BLE, integrated compute module
SC1604	RPI CM5 CM5116000 16GB RAM BLE, integrated compute module
SC1606	RPI CM5 CM5116016 16GB RAM 16GB EMMC BLE, integrated compute module
SC1607	RPI CM5 CM5116032 16GB RAM 32GB EMMC BLE, integrated compute module
SC1608	RPI CM5 CM5116064 16GB RAM 64GB EMMC BLE, integrated compute module

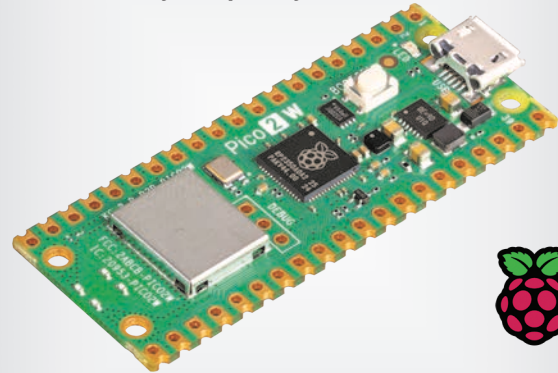
Pi Zero Single Board Computers by Raspberry Pi



Memory : 512MB RAM
 Interface : GPIO; HDMI; MIPI-CSI; SD; USB
 Dimensions : 65x30mm

Symbol	Architecture	Processor	Trade name
SC0019	ARM11	BCM2835	Raspberry Pi ZERO (V1.3)
SC0020	ARM11	BCM2835	Raspberry Pi ZERO W
SC0065	ARM11	BCM2835	Raspberry Pi ZERO WH
SC0510	Cortex A53	BCM2710A1	Raspberry Pi ZERO 2 W 512MB RAM
SC0721	Cortex A53	BCM2710A1	Raspberry Pi ZERO 2 W WITH HEADER
SC1176	Cortex A53	BCM2710A1	Raspberry Pi ZERO 2 W 512MB RAM

Pi Pico Modules by Raspberry Pi



Manufacturer : RASPBERRY PI
 Interface : GPIO; I2C; PWM; SPI; SWD; UART; USB
 U_{sup} : 1.8...5.5V DC
 Dimensions : 51x21mm

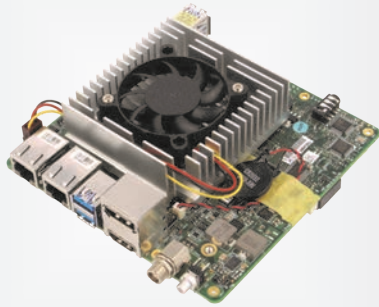
Symbol	Trade name	Clock frequency [MHz]	Architecture	Processor
SC0915	Raspberry Pi PICO	133	Cortex M0+	RP2040
SC0917	Raspberry Pi PICO H	133	Cortex M0+	RP2040
SC0918	Raspberry Pi PICO W	133	Cortex M0+	RP2040
SC0919	Raspberry Pi PICO WH	133	Cortex M0+	RP2040
SC1631	Raspberry Pi PICO 2	150	Cortex M33, RISC-V	RP2350
SC1633	Raspberry Pi PICO 2 W	150	Cortex M33, RISC-V	RP2350
SC1632	Raspberry Pi PICO 2 H	150	Cortex M33, RISC-V	RP2350
SC1634	Raspberry Pi PICO 2 WH	150	Cortex M33, RISC-V	RP2350

Raspberry Pi CM5 Development Kit



Manufacturer : RASPBERRY PI

UP Xtreme Single Board Computers made by AAEON



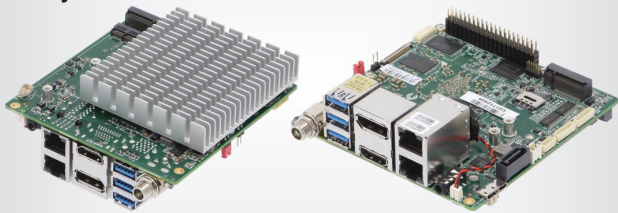
Type of minicomputer : Single-board computer
 Architecture : x86-64
 Operating system : none

Operating system support : Linux, Windows® 10

Symbol	Processor	Clock frequency [GHz]	Memory [GB]
UPX-WHLI3A20-08064	Intel® Core i3 8145UE	2.2	8 RAM, 64 FLASH
UPX-WHLCRA20-04064	Intel® Celeron® 4305UE	2	4 RAM, 64 FLASH
UPXADLPi3-A10-0800	Intel® Core i3-1220PE	4.2	8 RAM
UPXADLPi5-A10-1600	Intel® Core i5-1250PE	4.4	16 RAM
UPXADLPi7-A10-1600	Intel® Core i7-1270PE	4.5	16 RAM
UPXMTL125HA10-1600	Intel® Core Ultra 5 processor 125H	4.5	16 RAM
UPXMTL155HA10-3200	Intel® Core Ultra 7 processor 155H	4.8	32 RAM
UPX-TGLi3-A10-0000	Intel® Core i3 1115SGRE	3.9	-
UPX-TGLi5-A10-0000	Intel® Core i5 1145SGRE	4.1	-
UPX-TGLi7-A10-0000	Intel® Core i7 1185SGRE	4.4	-

Symbol	Interface
UPX-WHLI3A20-08064	eDP; Ethernet x2; GPIO; MIPI-CSI2; USB 2.0; USB 3.0
UPX-WHLCRA20-04064	eDP; Ethernet x2; GPIO; MIPI-CSI2; USB 2.0; USB 3.0
UPXADLPi3-A10-0800	eDP; Ethernet x2; GPIO; USB 2.0; USB 3.0; USB 4.0
UPXADLPi5-A10-1600	eDP; Ethernet x2; GPIO; USB 2.0; USB 3.0; USB 4.0
UPXADLPi7-A10-1600	eDP; Ethernet x2; GPIO; USB 2.0; USB 3.0; USB 4.0
UPXMTL125HA10-1600	Ethernet x2; GPIO; USB 2.0; USB 3.0; USB 4.0
UPXMTL155HA10-3200	Ethernet x2; GPIO; USB 2.0; USB 3.0; USB 4.0
UPX-TGLi3-A10-0000	eDP; Ethernet x2; GPIO; USB 2.0; USB 3.0; USB 4.0
UPX-TGLi5-A10-0000	eDP; Ethernet x2; GPIO; USB 2.0; USB 3.0; USB 4.0
UPX-TGLi7-A10-0000	eDP; Ethernet x2; GPIO; USB 2.0; USB 3.0; USB 4.0

UP Squared PRO Single Board Computers made by AAEON



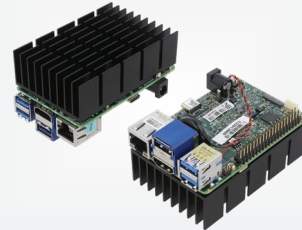
Type of minicomputer : Single-board computer
 Operating system : none

Operating system support : Linux, Ubuntu, Windows® 10, Yocto Linux

Symbol	Processor	Clock frequency [GHz]	GPU	Memory [GB]
UPN-APLC2F-A100232	Intel® Celeron® N3350	2.4	Intel® HD500	2 RAM, 32 FLASH
UPN-APLC2F-A100432	Intel® Celeron® N3350	2.4	Intel® HD500	4 RAM, 32 FLASH
UPN-APLP4F-A100432	Intel® Pentium® N4200	2.5	Intel® HD505	4 RAM, 32 FLASH
UPN-APLP4F-A100864	Intel® Pentium® N4200	2.5	Intel® HD505	8 RAM, 64 FLASH
UPN-APLX7F-A100464	Intel® Atom x7 E3950	2	Intel® HD505	4 RAM, 64 FLASH
UPNADLN50-A10-0432	Intel® Processor N50	3.4	Intel® UHD Graphics	4 RAM, 32 FLASH
UPNADLN97-A10-0864	Intel® Processor N97	3.6	Intel® UHD Graphics	8 RAM, 64 FLASH
UPNADLNi3-A10-1664	Intel® Core i3-N305	3.8	Intel® UHD Graphics	16 RAM, 64 FLASH
UPNADLNx25EA100864	Intel Atom® x7425E	3.4	Intel® UHD Graphics	8 RAM, 64 FLASH

Symbol	Interface
UPN-APLC2F-A100232	Ethernet x2; HDMI; RS232 x2; RS422; RS485; SATA; SIM; UART x2
UPN-APLC2F-A100432	Ethernet x2; HDMI; RS232 x2; RS422; RS485; SATA; SIM; UART x2
UPN-APLP4F-A100432	Ethernet x2; HDMI; RS232 x2; RS422; RS485; SATA; SIM; UART x2
UPN-APLP4F-A100864	Ethernet x2; HDMI; RS232 x2; RS422; RS485; SATA; SIM; UART x2
UPN-APLX7F-A100464	Ethernet x2; HDMI; RS232 x2; RS422; RS485; SATA; SIM; UART x2
UPNADLN50-A10-0432	Ethernet x2; GPIO; USB 2.0; USB 3.0
UPNADLN97-A10-0864	Ethernet x2; GPIO; USB 2.0; USB 3.0
UPNADLNi3-A10-1664	Ethernet x2; GPIO; USB 2.0; USB 3.0
UPNADLNx25EA100864	Ethernet x2; GPIO; USB 2.0; USB 3.0

UP 4000 single board computers made by AAEON



Type of minicomputer : Single-board computer
 Architecture : x86-64
 Operating system : none
 Operating system support : Linux, Windows® 10, Windows® 10 IoT
 Kit contents : Single-board computer; heatsink

Dimensions : 85.6x56.5mm
 U_{sup} : 12V DC

Symbol	Processor	Clock frequency [GHz]	Memory [GB]
UPAPL03C2F-A100232	Intel® Celeron® N3350	2.4	2 RAM, 32 FLASH
UPAPL03C2F-A100432	Intel® Celeron® N3350	2.4	4 RAM, 32 FLASH
UPAPL03P4F-A100432	Intel® Pentium® N4200	2.5	4 RAM, 32 FLASH
UPAPL03P4F-A100864	Intel® Pentium® N4200	2.5	8 RAM, 64 FLASH
UPAPL03X7F-A100464	Intel® Atom x7 E3950	2	4 RAM, 64 FLASH
UPAPL03C2FL-A10232	Intel® Celeron® N3350	2.4	2 RAM, 32 FLASH
UPAPL03C2FL-A10432	Intel® Celeron® N3350	2.4	4 RAM, 32 FLASH
UPAPL03C2FL-A10464	Intel® Celeron® N3350	2.4	4 RAM, 64 FLASH

Symbol	Graphic unit	Interface
UPAPL03C2F-A100232	Intel® HD400	Ethernet; GPIO; HDMI; UART x2; USB 2.0; USB 3.2
UPAPL03C2F-A100432	Intel® HD400	Ethernet; GPIO; HDMI; UART x2; USB 2.0; USB 3.2
UPAPL03P4F-A100432	Intel® HD400	Ethernet; GPIO; HDMI; UART x2; USB 2.0; USB 3.2
UPAPL03P4F-A100864	Intel® HD400	Ethernet; GPIO; HDMI; UART x2; USB 2.0; USB 3.2
UPAPL03X7F-A100464	Intel® HD400	Ethernet; GPIO; HDMI; UART x2; USB 2.0; USB 3.2
UPAPL03C2FL-A10232	Intel® HD500	Ethernet; GPIO; HDMI; USB 2.0; USB 3.2
UPAPL03C2FL-A10432	Intel® HD500	Ethernet; GPIO; HDMI; USB 2.0; USB 3.2
UPAPL03C2FL-A10464	Intel® HD500	Ethernet; GPIO; HDMI; USB 2.0; USB 3.2

IOT Edge modules made by AAEON



Manufacturer series : UP Squared
 Architecture : x86
 Interface : eDP; Ethernet; USB 2.0; USB 3.0; WiFi
 Kind of module : LTE, WiFi
 Bluetooth version : 4.2, BLE
 Memory : 8GB RAM, 64GB FLASH
 Kind of connector : HDMI; RJ45 x2; USB 2.0 x2; USB A 3.0 x4

Symbol	Components	Operating system support
UPSEDAIX70864UL01	Movidius Myriad X VPU, X7-E3950	Linux, Windows® 10
UPSEDIOTX70864UW01	X7-E3950	Ubuntu

Industrial SSDs for Data Centers by GOODRAM INDUSTRIAL



goodram industrial

Type of data storage device : Solid State Drive

Symbol	Memory capacity [GB]	Kind of connector	Case	Protection
GEBS05M800240NS10B	240	M.2 2280	M.2 2280	Non-SED
GEBS05M800480NS10B	480	M.2 2280	M.2 2280	Non-SED
GEBS05M800960NS10B	960	M.2 2280	M.2 2280	Non-SED
GEBS05SA00240NS10B	240	SATA III	2,5"	Non-SED
GEBS05SA00480NS10B	480	SATA III	2,5"	Non-SED
GEBS05SA00960NS10B	960	SATA III	2,5"	Non-SED
GEBS10M800480NS10B	480	M.2 2280	M.2 2280	Non-SED
GEBS10M800960NS10B	960	M.2 2280	M.2 2280	Non-SED
GEDC10M1001T9NS10B	1920	M.2 22110	M.2 22110	Non-SED
GEDC10M1003T8NS10B	3840	M.2 22110	M.2 22110	Non-SED
GEDC10M100480NS10B	480	M.2 22110	M.2 22110	Non-SED
GEDC10M100960NS10B	960	M.2 22110	M.2 22110	Non-SED
GEDC10M8001T9NS10B	1920	M.2 2280	M.2 2280	Non-SED
GEDC10M800480NS10B	480	M.2 2280	M.2 2280	Non-SED
GEDC10M800960NS10B	960	M.2 2280	M.2 2280	Non-SED
GEDC10S1001T9NS10B	1920	E1.S	EDSFF E1.S	Non-SED
GEDC10S1003T8NS10B	3840	E1.S	EDSFF E1.S	Non-SED
GEDC10S100480NS10B	480	E1.S	EDSFF E1.S	Non-SED
GEDC10S100960NS10B	960	E1.S	EDSFF E1.S	Non-SED
GESD05SA0015TNS04B	15360	SATA III	2,5"	Non-SED
GESD05SA0015TTP04B	15360	SATA III	2,5"	Opal
GESD05SA001T9NS05B	1920	SATA III	2,5"	Non-SED
GESD05SA001T9NS10B	1920	SATA III	2,5"	Non-SED
GESD05SA001T9NS30B	1920	SATA III	2,5"	Non-SED
GESD05SA001T9TP05B	1920	SATA III	2,5"	Opal
GESD05SA001T9TP10B	1920	SATA III	2,5"	Opal
GESD05SA003T8NS05B	3840	SATA III	2,5"	Non-SED
GESD05SA003T8NS10B	3840	SATA III	2,5"	Non-SED
GESD05SA003T8NS30B	3840	SATA III	2,5"	Non-SED
GESD05SA003T8TP05B	3840	SATA III	2,5"	Opal
GESD05SA003T8TP10B	3840	SATA III	2,5"	Opal
GESD05SA00480NS10B	480	E3.S	-	Non-SED
GESD05SA00480NS30B	480	E3.S	-	Non-SED
GESD05SA00480TP10B	480	E3.S	-	Opal
GESD05SA007T6NS04B	7680	SATA III	2,5"	Non-SED
GESD05SA007T6NS10B	7680	SATA III	2,5"	Non-SED
GESD05SA007T6TP04B	7680	SATA III	2,5"	Opal
GESD05SA007T6TP10B	7680	SATA III	2,5"	Opal
GESD05SA00960NS10B	960	SATA III	2,5"	Non-SED
GESD05SA00960NS30B	960	SATA III	2,5"	Non-SED
GESD05SA00960TP10B	960	SATA III	2,5"	Opal
GEUS20S3DP12TIS30B	12800	SATA III	2,5"	ISE
GEUS20S3DP12TTP30B	12800	Dual Port	E3.S	Opal
GEUS20S3DP15TIS10B	15360	Dual Port	E3.S	ISE
GEUS20S3DP15TTP10B	15360	Dual Port	E3.S	Opal
GEUS20S3DP1T6IS30B	1600	Dual Port	E3.S	ISE
GEUS20S3DP1T6TP30B	1600	Dual Port	E3.S	Opal
GEUS20S3DP1T9IS10B	1920	Dual Port	E3.S	ISE
GEUS20S3DP1T9TP10B	1920	Dual Port	E3.S	Opal
GEUS20S3DP3T2IS30B	3200	Dual Port	E3.S	ISE
GEUS20S3DP3T2TP30B	3200	Dual Port	E3.S	Opal
GEUS20S3DP3T8IS10B	3840	Dual Port	E3.S	ISE
GEUS20S3DP3T8TP10B	3840	Dual Port	E3.S	Opal
GEUS20S3DP6T4IS30B	6400	Dual Port	E3.S	ISE
GEUS20S3DP6T4TP30B	6400	Dual Port	E3.S	Opal
GEUS20S3DP7T6IS10B	7680	Dual Port	E3.S	ISE
GEUS20S3DP7T6TP10B	7680	Dual Port	E3.S	Opal
GEUS20S3SP12TIS30B	12800	Single Port	E3.S	ISE
GEUS20S3SP12TTP30B	12800	Single Port	E3.S	Opal

GESD05SA001T9TP10B	1920	SATA III	2,5"	Opal
GESD05SA003T8NS05B	3840	SATA III	2,5"	Non-SED
GEUS20S3SP15TIS10B	15360	Single Port	E3.S	ISE
GEUS20S3SP15TTP10B	15360	Single Port	E3.S	Opal
GEUS20S3SP1T6IS30B	15360	Single Port	E3.S	ISE
GEUS20S3SP1T6TP30B	1600	Single Port	E3.S	Opal
GEUS20S3SP1T9IS10B	1600	Single Port	E3.S	ISE
GEUS20S3SP1T9TP10B	1920	Single Port	E3.S	Opal
GEUS20S3SP3T2IS30B	1920	Single Port	E3.S	ISE
GEUS20S3SP3T2TP30B	3200	Single Port	E3.S	Opal
GEUS20S3SP3T8IS10B	3200	Single Port	E3.S	ISE
GEUS20S3SP3T8TP10B	3840	Single Port	E3.S	Opal
GEUS20S3SP6T4IS30B	3840	Single Port	E3.S	ISE
GEUS20S3SP6T4TP30B	6400	Single Port	E3.S	Opal
GEUS20S3SP7T6IS10B	6400	Single Port	E3.S	ISE
GEUS20S3SP7T6TP10B	7680	Single Port	E3.S	Opal
GEUS20UADP12TIS30B	12800	Dual Port	U.2	ISE
GEUS20UADP12TTP30B	12800	Dual Port	U.2	Opal
GEUS20UADP15TIS10B	15360	Dual Port	U.2	ISE
GEUS20UADP15TTP10B	15360	Dual Port	U.2	Opal
GEUS20UADP1T6IS30B	1600	Dual Port	U.2	ISE
GEUS20UADP1T6TP30B	1600	Dual Port	U.2	Opal
GEUS20UADP1T9IS10B	1920	Dual Port	U.2	ISE
GEUS20UADP1T9TP10B	1920	Dual Port	U.2	Opal
GEUS20UADP25TIS30B	25600	Dual Port	U.2	ISE
GEUS20UADP25TTP30B	25600	Dual Port	U.2	Opal
GEUS20UADP30TIS10B	30720	Dual Port	U.2	ISE
GEUS20UADP30TTP10B	30720	Dual Port	U.2	Opal
GEUS20UADP3T2IS30B	3200	Dual Port	U.2	ISE
GEUS20UADP3T2TP30B	3200	Dual Port	U.2	Opal
GEUS20UADP3T8IS10B	3840	Dual Port	U.2	ISE
GEUS20UADP3T8TP10B	3840	Dual Port	U.2	Opal
GEUS20UADP6T4IS30B	6400	Dual Port	U.2	ISE
GEUS20UADP6T4TP30B	6400	Dual Port	U.2	Opal
GEUS20UADP7T6IS10B	7680	Dual Port	U.2	ISE
GEUS20UADP7T6TP10B	7680	Dual Port	U.2	Opal
GEUS20UASP12TIS30B	12800	Single Port	U.2	ISE
GEUS20UASP12TTP30B	12800	Single Port	U.2	Opal
GEUS20UASP15TIS10B	15360	Single Port	U.2	ISE
GEUS20UASP15TTP10B	15360	Single Port	U.2	Opal
GEUS20UASP1T6IS30B	1600	Single Port	U.2	ISE
GEUS20UASP1T6TP30B	1600	Single Port	U.2	Opal
GEUS20UASP1T9IS10B	1920	Single Port	U.2	ISE
GEUS20UASP1T9TP10B	1920	Single Port	U.2	Opal
GEUS20UASP25TIS30B	2560	Single Port	U.2	ISE
GEUS20UASP25TTP30B	2560	Single Port	U.2	Opal
GEUS20UASP30TIS10B	30720	Single Port	U.2	ISE
GEUS20UASP30TTP10B	30720	Single Port	U.2	Opal
GEUS20UASP3T2IS30B	3200	Single Port	U.2	ISE
GEUS20UASP3T2TP30B	3200	Single Port	U.2	Opal
GEUS20UASP3T8IS10B	3840	Single Port	U.2	ISE
GEUS20UASP3T8TP10B	3840	Single Port	U.2	Opal
GEUS20UASP6T4IS30B	6400	Single Port	U.2	ISE
GEUS20UASP6T4TP30B	6400	Single Port	U.2	Opal
GEUS20UASP7T6IS10B	7680	Single Port	U.2	ISE
GEUS20UASP7T6TP10B	7680	Single Port	U.2	Opal

Industrial SSDs by GOODRAM INDUSTRIAL

goodram industrial



Type of data storage device : Solid State Drive

Symbol	Memory capacity [B]	Kind of memory	Kind of connector	Operating temperature [°C]
SSD10-030MSG	30G	MLC	SATA 2.5"	0...70
SSD10-0323DG	32G	3D TLC NAND	SATA 2.5"	-40...85
SSD10-032PSG	30G	pSLC	SATA 2.5"	0...70
SSD10-060MSG	60G	MLC	SATA 2.5"	0...70
SSD10-0643DG	64G	3D TLC NAND	SATA 2.5"	-40...85
SSD10-120MSG	120G	MLC	SATA 2.5"	0...70
SSD10-1283DG	128G	3D TLC NAND	SATA 2.5"	-40...85
SSD10-1283SG	128G	3D TLC NAND	SATA 2.5"	0...70
SSD10-1T03SG	1024G	3D TLC NAND	SATA 2.5"	0...70
SSD10-2563DG	256G	3D TLC NAND	SATA 2.5"	-40...85
SSD10-2563SG	256G	3D TLC NAND	SATA 2.5"	0...70
SSD10-5123DG	512G	3D TLC NAND	SATA 2.5"	-40...85
SSD10-5123SG	512G	3D TLC NAND	SATA 2.5"	0...70
SSD40-032MDG	32G	MLC	mSATA	-40...85
SSD40-064MDG	64G	MLC	mSATA	-40...85
SSD40-064MSG	64G	MLC	mSATA	0...70

cont. on the next page

Embedded systems

Industrial SSDs by GOODRAM INDUSTRIAL (cont.)

Symbol	Memory capacity [B]	Kind of memory	Kind of connector	Operating temperature [°C]
SSD40-1283SG	128G	3D TLC NAND	mSATA	0...70
SSD40-1T03SG	1024G	3D TLC NAND	mSATA	0...70
SSD40-2563SG	256G	3D TLC NAND	mSATA	0...70
SSD40-5123SG	512G	3D TLC NAND	mSATA	0...70
SSD74-016MDG	16G	MLC	M.2 2242	-40...85
SSD74-016PDG	16G	pSLC	M.2 2242	-40...85
SSD74-032MDG	32G	MLC	M.2 2242	-40...85
SSD74-0643DG	64G	3D TLC NAND	M.2 2242	-40...85
SSD74-1283DG	128G	3D TLC NAND	M.2 2242	-40...85
SSD74-2563DG	256G	3D TLC NAND	M.2 2242	-40...85
SSD74-5123DG	512G	3D TLC NAND	M.2 2242	-40...85
SSD78-0643DG	64G	3D TLC NAND	M.2 2280	-40...85
SSD78-0643SG	64G	3D TLC NAND	M.2 2280	0...70
SSD78-1283DG	128G	3D TLC NAND	M.2 2280	-40...85
SSD78-1283SG	128G	3D TLC NAND	M.2 2280	0...70
SSD78-1T03SG	1T	3D TLC NAND	M.2 2280	0...70
SSD78-2563DG	256G	3D TLC NAND	M.2 2280	-40...85
SSD78-2563SG	256G	3D TLC NAND	M.2 2280	0...70
SSD78-5123DG	512G	3D TLC NAND	M.2 2280	-40...85
SSD78-5123SG	512G	3D TLC NAND	M.2 2280	0...70
SSD98-1283SG	128G	3D TLC NAND	M.2 2280	0...70
SSD98-1T03SG	1T	3D TLC NAND	M.2 2280	0...70
SSD98-2563SG	256G	3D TLC NAND	M.2 2280	0...70
SSD98-5123SG	512G	3D TLC NAND	M.2 2280	0...70
SSDA8-1283DG	128G	3D TLC NAND	M.2 2280	-40...85
SSDA8-1T03DG	1024G	3D TLC NAND	M.2 2280	-40...85
SSDA8-2563DG	256G	3D TLC NAND	M.2 2280	-40...85
SSDA8-2T03DG	2048G	3D TLC NAND	M.2 2280	-40...85
SSDA8-5123DG	512G	3D TLC NAND	M.2 2280	-40...85

ARDUINO OPTA (PLC) development kits



IP rating : IP20
Operating temperature : -20...50°C

Symbol	Manufacturer's part number	Kind of module	Sup. volt. [V DC]	Dimensions [mm]
AFX00001	ARDUINO OPTA RS485	PLC programmable controller	12...24	90x80x69
AFX00002	ARDUINO OPTA WIFI	PLC programmable controller	12...24	90x80x69
AFX00003	ARDUINO OPTA LITE	PLC programmable controller	12...24	90x80x69
AFX00005	OPTA EXT D1608E	extension	12...24	88.8x70x56.5
AFX00006	OPTA EXT D1608S	extension	12...24	88.8x70x56.5
AFX00007	OPTA EXT A0602	extension	24	-

Symbol	Processor	Memory [MB]	Interface
AFX00001	ARM Cortex-M4, ARM Cortex-M7	1 RAM, 16 FLASH	Ethernet; RS485; USB
AFX00002	ARM Cortex-M4, ARM Cortex-M7	1 RAM, 16 FLASH	Ethernet; RS485; USB; WiFi
AFX00003	ARM Cortex-M4, ARM Cortex-M7	1 RAM, 16 FLASH	Ethernet; USB

Symbol	Number of inputs	Kind of input	Number of outputs	Output
AFX00001	8	0...10V	4	relay x4
AFX00002	8	0...10V	4	relay x4
AFX00003	8	0...10V	4	relay x4
AFX00005	16	0...24V	8	relay x4
AFX00006	16	0...24V	8	relay x4, SSR
AFX00007	6	0...10V, 0...20mA, Pt100	6	0...10V, 0...20mA, PT100, PWM

Portenta SoM modules by ARDUINO



Development kit : Arduino Pro
Kit contents : prototype board

Symbol	Manufacturer's part number	Architecture	Microcontroller
ABX00074	PORTENTA C33	Cortex M33	R7FA6M5BH2CBG
ABX00042	ARDUINO PORTENTA H7	Cortex M4, Cortex M7	STM32H747XI
ABX00045	PORTENTA H7 LITE	Cortex M4, Cortex M7	STM32H747XI
ABX00046	PORTENTA H7 LITE CONNECTED	Cortex M4, Cortex M7	STM32H747XI
ABX00049	ARDUINO PORTENTA X8	Cortex A53, Cortex M4	i.MX 8M Mini, STM32H747AI

Symbol	Communications protocol	Kind of connector	Dimensions [mm]
ABX00074	WiFi	80pin x2; pin strips; solder pads; USB C	66.04x25.4
ABX00042	WiFi	pin strips; USB C socket	66.04x25.4
ABX00045	Ethernet	80pin x2; solder pads; USB C socket	25.4x66.04
ABX00046	WiFi	80pin x2; solder pads; USB C socket	25.4x66.04
ABX00049	WiFi	80pin x2; USB C	25.38x66.02

Symbol	Interface
ABX00074	ADC; CAN; DAC; GPIO; I2C; I2S; JTAG; PDM; PWM; SAI; SPDIF; SPI; SWD; UART; USB C
ABX00042	ADC; DAC; Ethernet; SD; UART x4; USB
ABX00045	ADC x8; CAN; Ethernet 10/100Mbps; GPIO x7; I2C x3; I2S; MIPI-DSI2; PDM; PWM; SD; SPI; UART x4
ABX00046	ADC x8; CAN; Ethernet 10/100Mbps; GPIO x7; I2C x3; I2S; MIPI-DSI2; PDM; PWM; SD; SPI; UART x4
ABX00049	ADC x8; Ethernet; GPIO; I2C x3; I2S; MIPI; MIPI-DSI; PCI; PWM; SD; SPI x2; UART x4; USB x2

ARDUINO NICLEA modules



Development kit : Arduino Pro
Contacts pitch : 2.54mm
Dimensions : 22.86x22.86mm

Symbol	Manufacturer's part number	Interface
ABX00050	NICLEA SENSE ME	Bluetooth; I2C; SPI; UART
ABX00051	NICLEA VISION	ADC x2; GPIO; I2C; JTAG; serial; SPI; USB; WiFi
ABX00061	NICLEA VOICE	ADC x2; I2C; JTAG; SPI; USB
ABX00089	NICLEA SENSE ENV	ADC x2; ESLOW; I2C; serial; SPI

Symbol	Kind of module
ABX00050	pressure sensor, air quality sensor, humidity/temperature sensor, IMU, magnetometer
ABX00051	proximity sensor, IMU, camera, microphone, charger
ABX00061	IMU, magnetometer, microphone
ABX00089	gas sensor, air quality sensor, temperature sensor, humidity sensor

Development kit: Arduino Pro; gateway, LoRa, LTE, WiFi



Kind of module : gateway, LoRa, LTE, WiFi
Communications protocol : IEEE 802.11b/g/n, LoRaWAN, LTE
Interface : Ethernet; SD; SIM; USB
Receiver sensitivity : -137dBm
Transmitter output power : 27dBm
Kind of connector : RJ45; SIM; SMA; USB C; power supply

Symbol	Manufacturer's part number	IP rating	Memory [MB]	Dimensions [mm]
TPX00095	ARDUINO WISGATE EDGE PRO EU	IP67	32 FLASH, 128 RAM	240x240x80
TPX00098	ARDUINO WISGATE EDGE LTE2 EU	IP30	32 FLASH	66x127x36

ConnectCore® series single board computers made by DIGI International



Manufacturer series : ConnectCore®
Type of minicomputer : Single-board computer

cont. on the next page

ConnectCore® series single board computers made by DIGI International (cont.)

Symbol	Manufacturer's part number	Architecture	Processor	
CC-WMX6UL-KIT	CC-WMX6UL-KIT	Cortex A7	i.MX6UL-2	
CC-WMX8-KIT	CC-WMX8-KIT	Cortex A35, Cortex M4F	i.MX8M QuadXPlus	
CC-WMX8MM-KIT	CC-WMX8MM-KIT	Cortex A53, Cortex M4	i.MX8M Mini Quad	
CC-WMX8MN-KIT	CC-WMX8MN-KIT	Cortex A53, Cortex M7	i.MX8M Nano Quad	
CC-WMP157-KIT	CC-WMP157-KIT	Cortex A7, Cortex M4	STM32MP157C	
CC-WMP133-KIT	CC-WMP133-KIT	Cortex A7	STM32MP133C	
CC-WMX93-KIT	CC-WMX93-KIT	Cortex A55, Cortex M33	i.MX 93	
CC-WMP255-KIT	CC-WMP255-KIT	Cortex A33, Cortex M33	STM32MP255C	
Symbol	Bluetooth version	Memory	Operating system support	Memory [B]
CC-WMX6UL-KIT	5.0	DDR3	Yocto Linux	1G FLASH, 1G RAM
CC-WMX8-KIT	5.0	LPDDR4	Android, Yocto Linux	2G RAM, 16G FLASH
CC-WMX8MM-KIT	-	LPDDR4	Android, Yocto Linux	2G RAM, 8G FLASH
CC-WMX8MN-KIT	5.0	LPDDR4	Yocto Linux	1G RAM, 8G FLASH
CC-WMP157-KIT	-	DDR3L	Yocto Linux	512M FLASH, 512M RAM
CC-WMP133-KIT	5.2	DDR3L	Yocto Linux	256M FLASH, 256M RAM
CC-WMX93-KIT	5.2	LPDDR4	Yocto Linux	1G RAM, 8G FLASH
CC-WMP255-KIT	5.4	DDR4	Yocto Linux	2G RAM, 128G FLASH
Symbol	Communications protocol	WiFi		
CC-WMP133-KIT	WIFI	2,4GHz, 5GHz		
CC-WMX93-KIT	WIFI	2,4GHz, 5GHz, 6		
CC-WMP255-KIT	WIFI	2,4GHz, 5GHz, 6		

Development kits for M2M modules made by DIGI International



Development kit : evaluation

Symbol	Transmission	Components	Interface
XK3-C-N1-T-EB	LTE- M/NB-IoT	SARA-R410M-02B	ADC; GPIO; I2C; SPI; UART; USB
XK3-Z8S-WZM	ISM 2.4GHz	EFR32MG	GPIO; I2C; SPI; UART; USB
XK-8XR-DMM		EFR32FG13P231F512	-
XK3-C-G4-UT-W	LTE CAT4	PLS83-W	-
Symbol	Kit contents		
XK3-C-N1-T-EB	antenna; USB cable; SIM LTE-M card; module; prototype board		
XK3-Z8S-WZM	antenna x3; module XBEE® ZigBee SMT x3; USB cable x3; prototype board x3		

FLEXPOINT®; ILM12F; Laser Components

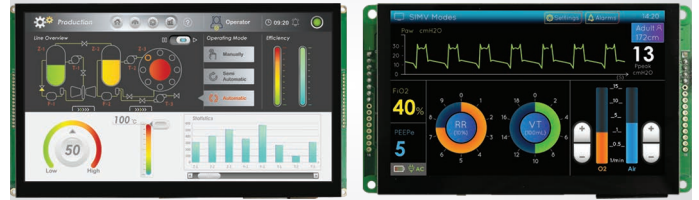


Trade name	: FLEXPOINT®
Body dim.	: Ø12x68mm
IP rating	: IP54
Features	: possibility of beam collimation
Electr. connect.	: M12 4pin
Application	: light curtain, visual effects, alarm systems, indicators
Type of optoelectronic module	: laser

Symbol	Colour	λ_d [nm]	Power [mW]	Optical head	U_{sup} [V DC]
ILM12F-L-635-7-58	red	635	7	line	4.5...30
ILM12F-L-635-10-90	red	635	7	line	4.5...30
ILM12F-L-635-10-58	red	635	10	line	4.5...30
ILM12F-L-520-7-58	green	520	7	line	10...30
ILM12F-DOE-520-7-B	green	520	20	cross	10...30
ILM12F-DOE-520-7-A	green	520	7	5 rings	10...30
ILM12F-D-635-1-C-F	red	635	1	dot	4.5...30
ILM12F-DOE-520-5-F	green	520	5	cross	10...30
ILM12F-D-520-1-C-F	green	520	1	dot	10...30
ILM12F-C-635-7-247	red	635	7	cross	4.5...30
ILM12F-C-635-5-218	red	635	5	cross	4.5...30

Symbol	Colour	λ_d [nm]	Power [mW]	Optical head	U_{sup} [V DC]
ILM12F-C-520-7-289	green	520	7	cross	10...30
ILM12F-L-635-7-35F	red	635	7	line	4.5...30

Display: TFT; graphical; RAYSTAR OPTRONICS



Type of display: TFT. Colour: RGB.

Illumination : LED

Manufacturer : RAYSTAR OPTRONICS

Operating temperature : -20...70°C

Touchpad : capacitive

Features : smart

Manufacturer series:

- CANbus CANopen Smart Display (RL0F00043000WGAABS, RL0F00050000FGAAAS, RL0F00101000JGAAAS)
- RS485 Modbus Smart Display (RL0F00xxxGDAAS)

Symbol	Screen size ["]	Resolution	Interface
RL0F00043000WGAABS	4.3	480x272	CAN
RL0F00050000FGAAAS	5	800x480	CAN
RL0F00101000JGAAAS	10.1	1024x600	CAN
RL0F00043000WGDAAS	4.3	480x272	RS485
RL0F00050000FGDAAS	5	800x480	RS485
RL0F0007000A8GDAAS	7	1024x600	RS485
RL0F00101000JGDAAS	10.2	1024x600	RS485
Symbol	Controller		
RL0F00043000WGAABS	STM32F750		
RL0F00050000FGAAAS	STM32F750		
RL0F00101000JGAAAS	STM32F746		
RL0F00043000WGDAAS	STM32F750		
RL0F00050000FGDAAS	STM32F429		
RL0F0007000A8GDAAS	STM32F746		
RL0F00101000JGDAAS	STM32F746		
Symbol	Kind of display		
RL0F00043000WGAABS	graphical		
RL0F00050000FGAAAS	graphical		
RL0F00101000JGAAAS	graphical		
RL0F00043000WGDAAS	graphical, matrix IPS		
RL0F00050000FGDAAS	graphical, matrix IPS		
RL0F0007000A8GDAAS	graphical, matrix IPS		
RL0F00101000JGDAAS	graphical		

RIVERDI's intelligent displays with STM32 controllers



Manufacturer : Riverdi
 Type of display : TFT
 Kind of display : graphical, matrix IPS
 Manufacturer series : STM32 Embedded Displays
 Colour : RGB
 No. of colours : 16.7M
 Operating temperature : -20...70°C
 Contrast : 1000:1



10

Embedded systems

Symbol	Screen size ["]	Resolution	Luminosity [cd/m ²]	U _{sup} [V DC]	Touchpad	Controller	Features	Ver.
RVT50HQSFWA01	5	800x480	800	6...48	capacitive	STM32U5GNJH6Q	smart; mounting frame	air bonding
RVT50HQSFWN01	5	800x480	1000	6...48	none	STM32U5GNJH6Q	smart; mounting frame	-
RVT50HQSNWA01	5	800x480	800	6...48	capacitive	STM32U5GNJH6Q	smart	air bonding
RVT50HQSNWC01	5	800x480	850	6...48	capacitive	STM32U5GNJH6Q	smart	air bonding
RVT50HQSNWC01-B	5	800x480	850	6...48	capacitive	STM32U5GNJH6Q	smart	optical bonding
RVT50HQSNWN01	5	800x480	1000	6...48	none	STM32U5GNJH6Q	smart	-
SM-RVT50HQSFWA01	5	800x480	800	6...48	capacitive	STM32U5GNJH6Q	smart; mounting frame	air bonding
SM-RVT50HQSFWN01	5	800x480	1000	6...48	none	STM32U5GNJH6Q	smart; mounting frame	-
SM-RVT50HQSNWA01	5	800x480	800	6...48	capacitive	STM32U5GNJH6Q	smart	air bonding
SM-RVT50HQSNWC01	5	800x480	850	6...48	capacitive	STM32U5GNJH6Q	smart	air bonding
SM-RVT50HQSNWC01-B	5	800x480	850	6...48	capacitive	STM32U5GNJH6Q	smart	optical bonding
SM-RVT50HQSNWN01	5	800x480	1000	6...48	none	STM32U5GNJH6Q	smart	-
RVT50HQSFWCA0	5	800x480	800	6...48	capacitive	STM32U599NJH6Q	smart; mounting frame	air bonding
RVT50HQSFWN00	5	800x480	1000	6...48	none	STM32U599NJH6Q	smart; mounting frame	-
RVT50HQSNWC00	5	800x480	800	6...48	capacitive	STM32U599NJH6Q	smart; external frame	air bonding
RVT50HQSNWC00-B	5	800x480	850	6...48	capacitive	STM32U599NJH6Q	smart; external frame	optical bonding
RVT50HQSNWCA0	5	800x480	800	6...48	capacitive	STM32U599NJH6Q	smart; external frame	air bonding
RVT50HQSNWN00	5	800x480	1000	6...48	none	STM32U599NJH6Q	smart	-
SM-RVT50HQSFWCA0	5	800x480	800	6...48	capacitive	STM32U599NJH6Q	smart; external frame	air bonding
SM-RVT50HQSFWN00	5	800x480	1000	6...48	none	STM32U599NJH6Q	smart; mounting frame	-
SM-RVT50HQSNWC00	5	800x480	800	6...48	capacitive	STM32U599NJH6Q	smart; external frame	air bonding
SM-RVT50HQSNWC00-B	5	800x480	850	6...48	capacitive	STM32U599NJH6Q	smart; external frame	optical bonding
SM-RVT50HQSNWCA0	5	800x480	800	6...48	capacitive	STM32U599NJH6Q	smart; mounting frame	air bonding
SM-RVT50HQSNWN00	5	800x480	1000	6...48	none	STM32U599NJH6Q	smart	-
RVT70HSSFWCA0	7	1024x600	800	6...36	capacitive	STM32H757XIH6	smart; mounting frame	air bonding
RVT70HSSFWN00	7	1024x600	1000	6...36	none	STM32H757XIH6	smart; mounting frame	-
RVT70HSSNWC00	7	1024x600	800	6...36	capacitive	STM32H757XIH6	smart; external frame	air bonding
RVT70HSSNWC00-B	7	1024x600	850	6...36	capacitive	STM32H757XIH6	smart; external frame	optical bonding
RVT70HSSNWCA0	7	1024x600	800	6...36	capacitive	STM32H757XIH6	smart	air bonding
RVT70HSSNWN00	7	1024x600	1000	6...36	none	STM32H757XIH6	smart	-
SM-RVT70HSSFWCA0	7	1024x600	800	6...36	capacitive	STM32H757XIH6	smart; mounting frame	air bonding
SM-RVT70HSSFWN00	7	1024x600	1000	6...36	none	STM32H757XIH6	smart; mounting frame	-
SM-RVT70HSSNWC00	7	1024x600	800	6...36	capacitive	STM32H757XIH6	smart; external frame	air bonding
SM-RVT70HSSNWC00-B	7	1024x600	850	6...36	capacitive	STM32H757XIH6	smart; external frame	optical bonding
SM-RVT70HSSNWCA0	7	1024x600	800	6...36	capacitive	STM32H757XIH6	smart	air bonding
SM-RVT70HSSNWN00	7	1024x600	1000	6...36	none	STM32H757XIH6	smart	-
RVT101HVSFWCA0	10.1	1280x800	800	6...36	capacitive	STM32H757XIH6	smart; mounting frame	air bonding
RVT101HVSFWN00	10.1	1280x800	1000	6...36	none	STM32H757XIH6	smart; mounting frame	-
RVT101HVSNWC00	10.1	1280x800	1000	6...36	capacitive	STM32H757XIH6	smart; external frame	air bonding
RVT101HVSNWC00-B	10.1	1280x800	850	6...36	capacitive	STM32H757XIH6	smart; external frame	optical bonding
RVT101HVSNWCA0	10.1	1280x800	850	6...36	capacitive	STM32H757XIH6	smart	air bonding
RVT101HVSNWN00	10.1	1280x800	1000	6...36	none	STM32H757XIH6	smart	-
SM-RVT101HVSFWCA0	10.1	1280x800	800	6...36	capacitive	STM32H757XIH6	smart; mounting frame	air bonding
SM-RVT101HVSFWN00	10.1	1280x800	1000	6...36	none	STM32H757XIH6	smart; mounting frame	-
SM-RVT101HVSNWC00	10.1	1280x800	800	6...36	capacitive	STM32H757XIH6	smart; external frame	air bonding
SM-RVT101HVSNWC00B	10.1	1280x800	850	6...36	capacitive	STM32H757XIH6	smart; external frame	optical bonding
SM-RVT101HVSNWCA0	10.1	1280x800	800	6...36	capacitive	STM32H757XIH6	smart	air bonding
SM-RVT101HVSNWN00	10.1	1280x800	1000	6...36	none	STM32H757XIH6	smart	-
RVT121HVSFWCA0-B	12.1	1280x800	850	6...48	capacitive	STM32H757XIH6	smart; mounting frame	optical bonding
RVT121HVSFWN00	12.1	1280x800	1000	6...48	none	STM32H757XIH6	smart; mounting frame	-
RVT121HVSNWC00-B	12.1	1280x800	850	6...48	capacitive	STM32H757XIH6	smart	optical bonding
RVT121HVSNWCA0-B	12.1	1280x800	850	6...48	capacitive	STM32H757XIH6	smart	optical bonding
RVT121HVSNWN00	12.1	1280x800	1000	6...48	none	STM32H757XIH6	smart	-
SM-RVT121HVSFWCA0B	12.1	1280x800	850	6...48	capacitive	STM32H757XIH6	smart; mounting frame	optical bonding
SM-RVT121HVSFWN00	12.1	1280x800	1000	6...48	none	STM32H757XIH6	smart; mounting frame	-
SM-RVT121HVSNWC00B	12.1	1280x800	850	6...48	capacitive	STM32H757XIH6	smart	optical bonding
SM-RVT121HVSNWCA0B	12.1	1280x800	850	6...48	capacitive	STM32H757XIH6	smart	optical bonding
SM-RVT121HVSNWN00	12.1	1280x800	1000	6...48	none	STM32H757XIH6	smart	-



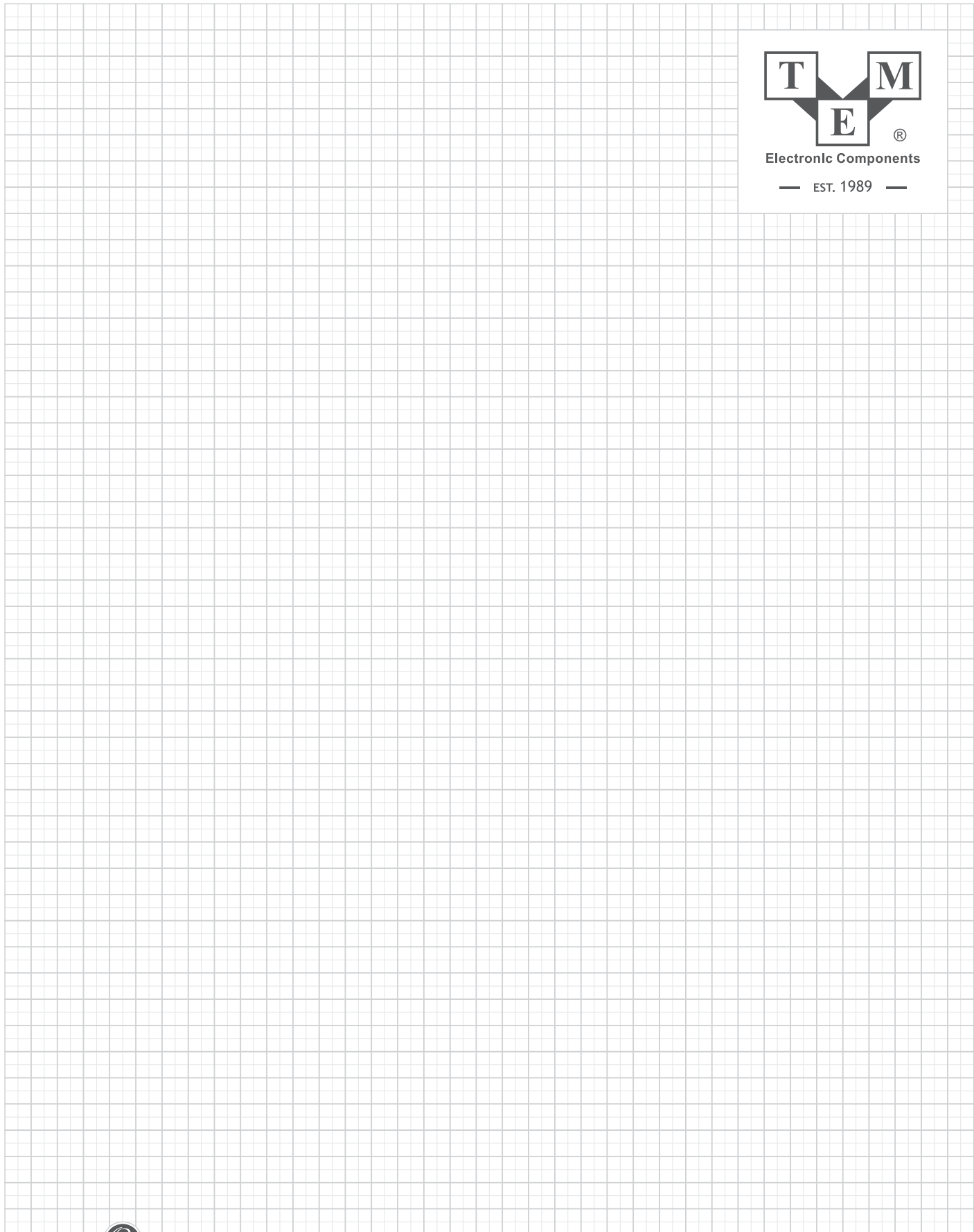
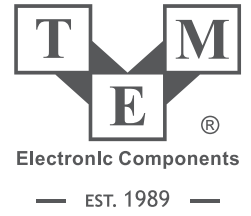
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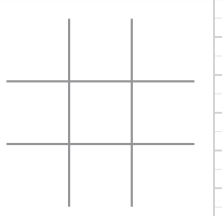
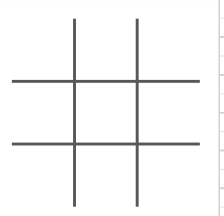
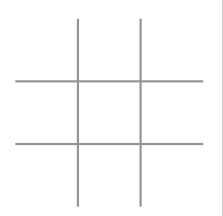
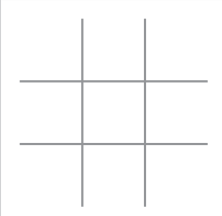
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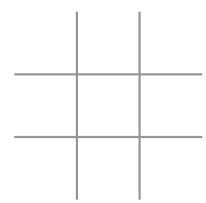
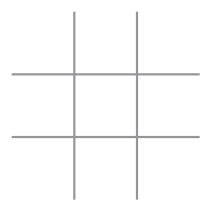
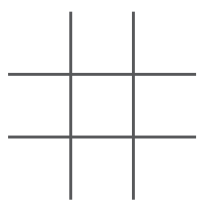
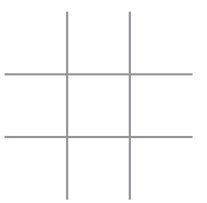
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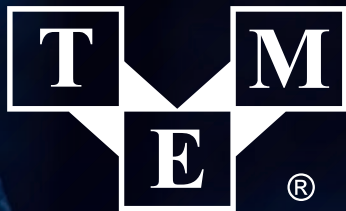
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
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