

CABLE-FLK50/0,14/HF/10,0M - Cable



2314244

<https://www.phoenixcontact.com/gb/products/2314244>

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Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 10 m

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2314244 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DK2217 |
| Product key | DK2217 |
| Catalog page | Page 565 (C-5-2019) |
| GTIN | 4046356099684 |
| Weight per piece (including packing) | 1,584 g |
| Weight per piece (excluding packing) | 1,584 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|--------------|--------------|
| Product type | System cable |
|--------------|--------------|

Environmental and real-life conditions

Ambient conditions

| | |
|----------------------------------------------|-----------------------------------------------------------------------------------|
| Degree of protection | IP00 |
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation) | -40 °C ... 70 °C (fixed installation) -10 °C ... 70 °C (flexible installation) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | ≤ 2000 m |

Electrical properties

| | |
|--------------------------|----------------------------------|
| Operating voltage (AC) | ≤ 30 V AC |
| Operating voltage (DC) | ≤ 60 V DC |
| Nominal operating mode | 100% operating factor |
| Current (Per path, 50°C) | ≤ 1 A (Uncoiled, see derating) |
| Current (Per path, 70°C) | ≤ 0.6 A (Uncoiled, see derating) |

Supported controller SIEMENS S7-1500

| | |
|-------------------|--------------------|
| Suitable I/O card | 6ES7521-1BL00-0AB0 |
| | 6ES7521-1BL10-0AA0 |
| | 6ES7522-1BL00-0AB0 |
| | 6ES7522-1BL01-0AB0 |
| | 6ES7522-1BL10-0AA0 |
| | 6ES7523-1BL00-0AA0 |
| | 6ES7531-7KF00-0AB0 |
| | 6ES7531-7LH00-0AB0 |
| | 6ES7531-7MH00-0AB0 |
| | 6ES7531-7NF00-0AB0 |
| | 6ES7531-7NF10-0AB0 |
| | 6ES7531-7PF00-0AB0 |
| | 6ES7532-5HF00-0AB0 |

Supported controller SIEMENS S7-300 / ET 200 M

| | |
|-------------------|--------------------|
| Suitable I/O card | CPU 313C |
| | CPU 313C-2DP |
| | CPU 313C-2PtP |
| | CPU 314C-2DP |
| | CPU 314C-2PtP |
| | 6ES7321-1BL00-0AA0 |
| | 6ES7322-1BL00-0AA0 |

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| | |
|--|--------------------|
| | 6ES7322-8BH01-0AB0 |
| | 6ES7323-1BL00-0AA0 |
| | 6ES7331-1KF01-0AB0 |
| | 6ES7331-7NF00-0AB0 |
| | 6ES7331-7NF10-0AB0 |
| | 6ES7331-7PF01-0AB0 |
| | 6ES7331-7PF11-0AB0 |
| | 6ES7332-5HF00-0AB0 |
| | 6ES7350-2AH01-0AE0 |
| | 6ES7357-4AH01-0AE0 |

Supported controller SIEMENS S7-400

| | |
|-------------------|--------------------|
| Suitable I/O card | 6ES7421-1BL01-0AA0 |
| | 6ES7421-7BH01-0AB0 |
| | 6ES7421-7DH00-0AA0 |
| | 6ES7422-1BL00-0AA0 |
| | 6ES7422-7BL00-0AB0 |
| | 6ES7431-0HH0-0AB0 |
| | 6ES7431-1KF00-0AB0 |
| | 6ES7431-1KF10-0AB0 |
| | 6ES7431-1KF20-0AB0 |
| | 6ES7431-7KF00-0AB0 |
| | 6ES7431-7KF10-0AB0 |
| | 6ES7431-7QH00-0AB0 |
| | 6ES7432-1HF00-0AB0 |

Supported controller SCHNEIDER ELECTRIC Modicon TSX QUANTUM

| | |
|-------------------|---------|
| Suitable I/O card | DDI 353 |
| | DDI 841 |
| | DDI 853 |
| | DAI 340 |
| | DAI 440 |
| | DAI 453 |
| | DDO 353 |
| | DDM 390 |
| | ACI 030 |
| | ACI 040 |
| | ATI 030 |
| | ARI 030 |
| | AVI 030 |
| | ACO 020 |
| | ACO 130 |
| | AVO 020 |
| | EHC 105 |
| | EHC 202 |

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Supported controller ALLEN-BRADLEY ControlLogix

| | |
|-------------------|------------|
| Suitable I/O card | 1756-IA16I |
| | 1756-IB16D |
| | 1756-IB16I |
| | 1756-IB32 |
| | 1756-IH16I |
| | 1756-OB32 |
| | 1756-IF8 |
| | 1756-IF16 |
| | 1756-HSC |
| | 1756-M02AE |

Supported controller HONEYWELL Experion PKS C200

| | |
|-------------------|------------|
| Suitable I/O card | TC-IDK 161 |
| | TC-IDX 161 |
| | TC-IDJ 161 |
| | TC-IDD 321 |
| | TC-ODD 321 |
| | TC-IAH 161 |

Cable/line

| | |
|-----------------------------------------------|-------------------------------------------------------------------|
| Cable length | 10 m |
| UL AWM Style | 21946 |
| Number of positions | 50 |
| Shielded | no |
| Conductor type | Assembled, halogen-free round cable |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross section | 50x 0.14 mm ² |
| Wire diameter incl. insulation | 1 mm ±0.03 mm |
| External cable diameter | 10.30 mm ±0.4 mm |
| Outer sheath, material | halogen-free (type 2) |
| External sheath, color | gray |
| Conductor material | Tin-plated Cu litz wires |
| Cable resistance | ≤ 145 Ω/km (20 °C) |
| Insulation resistance | ≥ 20 MΩ*km (20 °C) |
| Smallest bending radius, fixed installation | 86 mm |
| Smallest bending radius, movable installation | 161 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 5000 (at a radius of ≥ 15x outside diameter) |
| Halogen-free | yes |
| Flame resistance | IEC 60332-1-2 (raw cable) |
| | VDE 0842, Part 332-1-2 (raw cable) |
| | IEC 60332-3-22 (raw cable) |

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| | |
|-------------------|-----------------------------------------------|
| Resistance to oil | can withstand occasional splashes (raw cable) |
| Cable type | Cable for one module |

Color code

| | |
|---------------|---------------------------------|
| black | IDC/FLK50 (1) = IDC/FLK50 (1) |
| brown | IDC/FLK50 (2) = IDC/FLK50 (2) |
| red | IDC/FLK50 (3) = IDC/FLK50 (3) |
| orange | IDC/FLK50 (4) = IDC/FLK50 (4) |
| yellow | IDC/FLK50 (5) = IDC/FLK50 (5) |
| green | IDC/FLK50 (6) = IDC/FLK50 (6) |
| blue | IDC/FLK50 (7) = IDC/FLK50 (7) |
| violet | IDC/FLK50 (8) = IDC/FLK50 (8) |
| gray | IDC/FLK50 (9) = IDC/FLK50 (9) |
| white | IDC/FLK50 (10) = IDC/FLK50 (10) |
| white-black | IDC/FLK50 (11) = IDC/FLK50 (11) |
| white-brown | IDC/FLK50 (12) = IDC/FLK50 (12) |
| white-red | IDC/FLK50 (13) = IDC/FLK50 (13) |
| white-orange | IDC/FLK50 (14) = IDC/FLK50 (14) |
| white-yellow | IDC/FLK50 (15) = IDC/FLK50 (15) |
| white-green | IDC/FLK50 (16) = IDC/FLK50 (16) |
| white-blue | IDC/FLK50 (17) = IDC/FLK50 (17) |
| white-violet | IDC/FLK50 (18) = IDC/FLK50 (18) |
| white-gray | IDC/FLK50 (19) = IDC/FLK50 (19) |
| brown-black | IDC/FLK50 (20) = IDC/FLK50 (20) |
| brown-red | IDC/FLK50 (21) = IDC/FLK50 (21) |
| brown-orange | IDC/FLK50 (22) = IDC/FLK50 (22) |
| brown-yellow | IDC/FLK50 (23) = IDC/FLK50 (23) |
| brown-green | IDC/FLK50 (24) = IDC/FLK50 (24) |
| brown-blue | IDC/FLK50 (25) = IDC/FLK50 (25) |
| brown-violet | IDC/FLK50 (26) = IDC/FLK50 (26) |
| brown-gray | IDC/FLK50 (27) = IDC/FLK50 (27) |
| brown-white | IDC/FLK50 (28) = IDC/FLK50 (28) |
| green-black | IDC/FLK50 (29) = IDC/FLK50 (29) |
| green-brown | IDC/FLK50 (30) = IDC/FLK50 (30) |
| green-red | IDC/FLK50 (31) = IDC/FLK50 (31) |
| green-orange | IDC/FLK50 (32) = IDC/FLK50 (32) |
| green-blue | IDC/FLK50 (33) = IDC/FLK50 (33) |
| green-violet | IDC/FLK50 (34) = IDC/FLK50 (34) |
| green-gray | IDC/FLK50 (35) = IDC/FLK50 (35) |
| green-white | IDC/FLK50 (36) = IDC/FLK50 (36) |
| yellow-black | IDC/FLK50 (37) = IDC/FLK50 (37) |
| yellow-brown | IDC/FLK50 (38) = IDC/FLK50 (38) |
| yellow-red | IDC/FLK50 (39) = IDC/FLK50 (39) |
| yellow-orange | IDC/FLK50 (40) = IDC/FLK50 (40) |

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| | |
|---------------|---------------------------------|
| yellow-blue | IDC/FLK50 (41) = IDC/FLK50 (41) |
| yellow-violet | IDC/FLK50 (42) = IDC/FLK50 (42) |
| yellow-gray | IDC/FLK50 (43) = IDC/FLK50 (43) |
| yellow-white | IDC/FLK50 (44) = IDC/FLK50 (44) |
| gray-black | IDC/FLK50 (45) = IDC/FLK50 (45) |
| gray-brown | IDC/FLK50 (46) = IDC/FLK50 (46) |
| gray-red | IDC/FLK50 (47) = IDC/FLK50 (47) |
| gray-orange | IDC/FLK50 (48) = IDC/FLK50 (48) |
| gray-yellow | IDC/FLK50 (49) = IDC/FLK50 (49) |
| gray-green | IDC/FLK50 (50) = IDC/FLK50 (50) |

Connection data

Connection 1

| | |
|----------------------------------|------------------------------|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method | IDC/FLK socket strip |
| Number of connections | 1 |
| Number of positions | 50 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

Connection 2

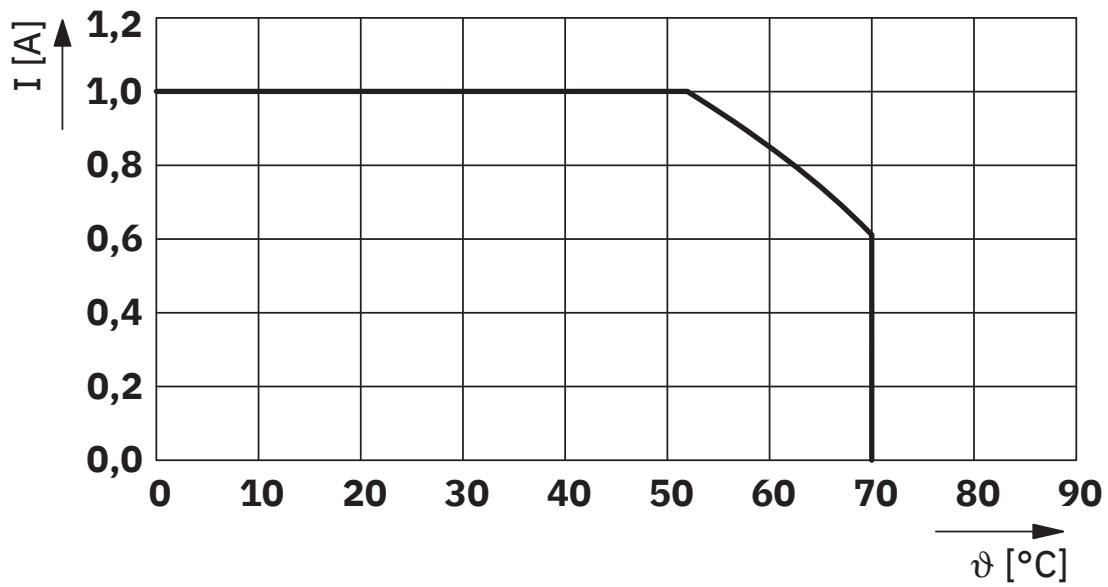
| | |
|----------------------------------|------------------------------|
| Connection in acc. with standard | IEC 60603-13 (in compliance) |
| Connection method | IDC/FLK socket strip |
| Number of connections | 1 |
| Number of positions | 50 |
| Insertion/withdrawal cycles | > 50 |
| Pitch | 2.54 mm |

Notes

| | |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |
| Material information | Only the cable is halogen-free for this product. |

Drawings

Diagram



Maximum permissible current per path in uncoiled state

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2314244>



EAC

Approval ID: RU*-DE.HB*35.B00385



UL Listed

Approval ID: E238705

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 125 V | 1 A | - | - |



cUL Listed

Approval ID: E238705

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 125 V | 1 A | - | - |

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Classifications

ECLASS

ECLASS-13.0

27242220

ETIM

ETIM 9.0

EC000237

UNSPSC

UNSPSC 21.0

26121600

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Environmental product compliance

EU RoHS

| | |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

China RoHS

| | |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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