

# VS-BU/C6-PPC/ME-94F-LI/5,0 - Network cable



1415953

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Assembled Ethernet cable, CAT6, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), RJ45 socket module/IP20 for Freenet system, 8-pos. on RJ45 plug/IP67 push-pull metal housing, line, length 5 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1415953                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | ABNABF                         |
| Product key                          | ABNABF                         |
| GTIN                                 | 4046356475013                  |
| Weight per piece (including packing) | 309.4 g                        |
| Weight per piece (excluding packing) | 301.805 g                      |
| Customs tariff number                | 85444210                       |
| Country of origin                    | PL                             |

## Technical data

### Product properties

|                      |                           |
|----------------------|---------------------------|
| Product type         | Data cable preassembled   |
| Product family       | RJ45 INDUSTRIAL IE8 CAT6A |
| Sensor type          | Ethernet                  |
| Number of positions  | 8                         |
| No. of cable outlets | 1                         |
| Shielded             | yes                       |
| Cable outlet         | straight                  |

### Insulation characteristics

|                     |   |
|---------------------|---|
| Degree of pollution | 2 |
|---------------------|---|

### Electrical properties

|                                         |              |
|-----------------------------------------|--------------|
| Transmission medium                     | Copper       |
| Transmission speed                      | 1 Gbps       |
| Transmission characteristics (category) | CAT6         |
| Transmission speed                      | 1 Gbps       |
| Wave impedance                          | 100 $\Omega$ |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 200$ |
|-----------------------------|------------|

### Material specifications

|                                        |                    |
|----------------------------------------|--------------------|
| Flammability rating according to UL 94 | V2                 |
| Outer sheath, material                 | PUR                |
| Conductor material                     | Bare Cu litz wires |

### Connector

#### Connection 1

|                      |                             |
|----------------------|-----------------------------|
| Type                 | Socket module straight RJ45 |
| Locking type         | Freenet                     |
| Degree of protection | IP20                        |

#### Connection 2

|                      |                    |
|----------------------|--------------------|
| Type                 | Plug straight RJ45 |
| Locking type         | Push Pull          |
| Degree of protection | IP67               |

### Cable/line

|              |        |
|--------------|--------|
| Cable length | 5.00 m |
|--------------|--------|

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## Ethernet 10 Gbit [94F]

|                                               |                                                                                    |
|-----------------------------------------------|------------------------------------------------------------------------------------|
| Dimensional drawing                           |  |
| UL AWM Style                                  | 21238 (80 °C / 600 V)                                                              |
| Number of positions                           | 8                                                                                  |
| Shielded                                      | yes                                                                                |
| Cable type                                    | Ethernet 10 Gbit [94F]                                                             |
| Conductor structure                           | 4x2xAWG26/7; S/FTP                                                                 |
| AWG signal line                               | 26                                                                                 |
| Conductor cross-section                       | 4x 2x 0.14 mm <sup>2</sup>                                                         |
| Wire diameter incl. insulation                | 1 mm ±0.05 mm                                                                      |
| External cable diameter                       | 6.40 mm ±0.2 mm                                                                    |
| Outer sheath, material                        | PUR                                                                                |
| External sheath, color                        | water blue RAL 5021                                                                |
| Conductor material                            | Bare Cu litz wires                                                                 |
| Material wire insulation                      | Foamed PE                                                                          |
| Single wire, color                            | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown         |
| Twisted pairs                                 | 2 cores to the pair                                                                |
| Overall twist                                 | 4 pairs for core                                                                   |
| Optical shield covering                       | 70 %                                                                               |
| Insulation resistance                         | ≥ 500 MΩ*km                                                                        |
| Loop resistance                               | ≤ 290.00 Ω/km                                                                      |
| Wave impedance                                | 100 Ω ±5 Ω (at 100 MHz)                                                            |
| Nominal voltage, cable                        | ≤ 100 V                                                                            |
| Test voltage Core/Core                        | 2000 V (50 Hz, 1 min.)                                                             |
| Test voltage Core/Shield                      | 2000.00 V (50 Hz, 1 min.)                                                          |
| Minimum bending radius, fixed installation    | 4 x D                                                                              |
| Minimum bending radius, flexible installation | 8 x D                                                                              |
| Smallest bending radius, fixed installation   | 26 mm                                                                              |
| Smallest bending radius, movable installation | 51 mm                                                                              |
| Halogen-free                                  | according to IEC 60754-1                                                           |
| Flame resistance                              | according to IEC 60332-1-2                                                         |
|                                               | in accordance with UN ECE-R 118.03                                                 |
|                                               | according to CSA C 22.2 No. 210-FT1                                                |
| Resistance to oil                             | in accordance with DIN EN 60811-404                                                |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)                                       |

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-20 °C ... 80 °C (Cable, flexible installation)

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## Approvals

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**EAC**

Approval ID: 19060508

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

### 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.) | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1) |
| SCIP                                | 15631927-87d1-4b1b-a591-bd6359ae7e74                        |

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