

## Network cable - VS-PPC/ME-PPC/ME-94C-LI/10,0 - 1413492


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Assembled Ethernet cable, shielded, 4-pair, AWG 26 flexible cable conduit capable (19-wire), RAL 5021 (sea blue), RJ45 connector/IP67 push/pull metal housing to RJ45 connector/IP67 push/pull metal housing, line, length 10 m

RoHS

### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 pc  |
| GTIN         | <br>4 046356 475822 |
| GTIN         | 4046356475822   |

### Technical data

#### Dimensions

|                 |         |
|-----------------|---------|
| Length of cable | 10.00 m |
|-----------------|---------|

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP65 |
|                      | IP67 |

#### General data

|   |                     |
|---|---------------------|
| Number of positions                     | 8                   |
| Standards/regulations                   | IEC PAS 61076-3-117 |
| Degree of pollution                     | 2                   |
| Alternative short product description   | Ethernet cable      |
| Locking type                            | Push Pull           |
| Degree of protection                    | IP65/IP67           |
| Transmission characteristics (category) | CAT5                |

#### Characteristics head 1

|                        |       |
|------------------------|-------|
| Material (component)   | Metal |
| Shielded               | yes   |
| Outer sheath, material | PUR   |

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## Technical data

### Characteristics head 2

|                      |       |
|----------------------|-------|
| Material (component) | Metal |
|----------------------|-------|

### Standards and Regulations

|  |                     |
|--|---------------------|
| Standards/specifications               | IEC PAS 61076-3-117 |
| Flammability rating according to UL 94 | V2                  |

### Cable

|   |  |
|---|--|
| Cable type                                      | Ethernet drag chain CAT5, 4-pair   |
| Cable type (abbreviation)                       | 94C  |
| UL AWM style                                    | 20963 (80°C/30 V)  |
| Signal type/category                            | Ethernet CAT5 (IEC 11801), 1 Gbps  |
| Cable structure                                 | 4x2xAWG26/19; S/UTP  |
| Conductor cross section                         | 4x 2x 0.14 mm <sup>2</sup>   |
| AWG signal line                                 | 26   |
| Conductor structure signal line                 | 19x 0.10 mm  |
| Core diameter including insulation              | 1 mm   |
| Wire colors                                     | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| Twisted pairs                                   | 2 cores to the pair  |
| Overall twist                                   | Four pairs and four fillers to the core                                    |
| Shielding                                       | Tinned copper braided shield   |
| Optical shield covering                         | 90 %   |
| External sheath, color                          | water blue RAL 5021  |
| Outer sheath thickness                          | 0.85 mm  |
| External cable diameter D                       | 6.9 mm +0.1 mm ... 0.2 mm  |
| Minimum bending radius, fixed installation      | 4 x D  |
| Minimum bending radius, flexible installation   | 8 x D  |
| Number of bending cycles                        | 5000000  |
| Minimum bending radius, drag chain applications | 7,5 x D  |
| Traversing rate                                 | 3 m/s  |
| Acceleration                                    | 5 m/s <sup>2</sup>   |
| Tensile strength GRP                            | ≤ 100 N  |
| Cable weight                                    | 57 kg/km   |
| Outer sheath, material                          | PUR  |
| Material conductor insulation                   | PP   |
| Conductor material                              | Bare Cu litz wires   |
| Insulation resistance                           | ≥ 500 MΩ*km  |
| Loop resistance                                 | ≤ 290.00 Ω/km  |
| Cable capacity                                  | approx. 50 nF/km (at 1 kHz)  |
| Wave impedance                                  | 100 Ω ±5 Ω (at 100 MHz)  |
| Near end crosstalk attenuation (NEXT)           | 65.3 dB (with 1 MHz)   |
|   | 56.3 dB (at 4 MHz)   |

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## Technical data

### Cable

|  |   |
|--|---|
|  | 50.3 dB (at 10 MHz)                             |
|  | 47.2 dB (at 16 MHz)                             |
|  | 45.8 dB (at 20 MHz)                             |
|  | 42.9 dB (at 31.25 MHz)                          |
|  | 38.4 dB (at 62.5 MHz)                           |
|  | 35.3 dB (at 100 MHz)                            |
| Power-summated near end crosstalk attenuation (PSNEXT) | 62.3 dB (with 1 MHz)                            |
|  | 53.3 dB (at 4 MHz)                              |
|  | 47.3 dB (at 10 MHz)                             |
|  | 44.2 dB (at 16 MHz)                             |
|  | 42.8 dB (at 20 MHz)                             |
|  | 39.9 dB (at 31.25 MHz)                          |
|  | 35.4 dB (at 62.5 MHz)                           |
|  | 32.3 dB (at 100 MHz)                            |
| Attenuation  | 3.2 dB (with 1 MHz)                             |
|  | 6 dB (at 4 MHz)                                 |
|  | 9.5 dB (at 10 MHz)                              |
|  | 12.1 dB (at 16 MHz)                             |
|  | 13.6 dB (at 20 MHz)                             |
|  | 17.1 dB (at 31.25 MHz)                          |
|  | 24.8 dB (at 62.5 MHz)                           |
|  | 32 dB (at 100 MHz)                              |
| Return loss (RL)                                       | 23 dB (at 4 MHz)                                |
|  | 24.1 dB (at 8 MHz)                              |
|  | 25 dB (at 10 MHz)                               |
|  | 25 dB (at 16 MHz)                               |
|  | 25 dB (at 20 MHz)                               |
|  | 23.6 dB (at 31.25 MHz)                          |
|  | 21.5 dB (at 62.5 MHz)                           |
|  | 20.1 dB (at 100 MHz)                            |
| Signal runtime   | 5.3 ns/m  |
| Coupling resistance                                    | ≤ 100.00 mΩ/m (at 10 MHz)                       |
| Nominal voltage, cable                                 | ≤ 100 V   |
| Test voltage Core/Core                                 | 700 V (50 Hz, 1 min.)                           |
| Test voltage Core/Shield                               | 700 V (50 Hz, 1 min.)                           |
| Flame resistance                                       | according to IEC 60332-1-2                      |
| Halogen-free   | according to IEC 60754-1                        |
| Resistance to oil                                      | according to EN 60811-2-1                       |
| Ambient temperature (operation)                        | -40 °C ... 80 °C (cable, fixed installation)    |
|  | -20 °C ... 80 °C (cable, flexible installation) |

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## Technical data

### Cable

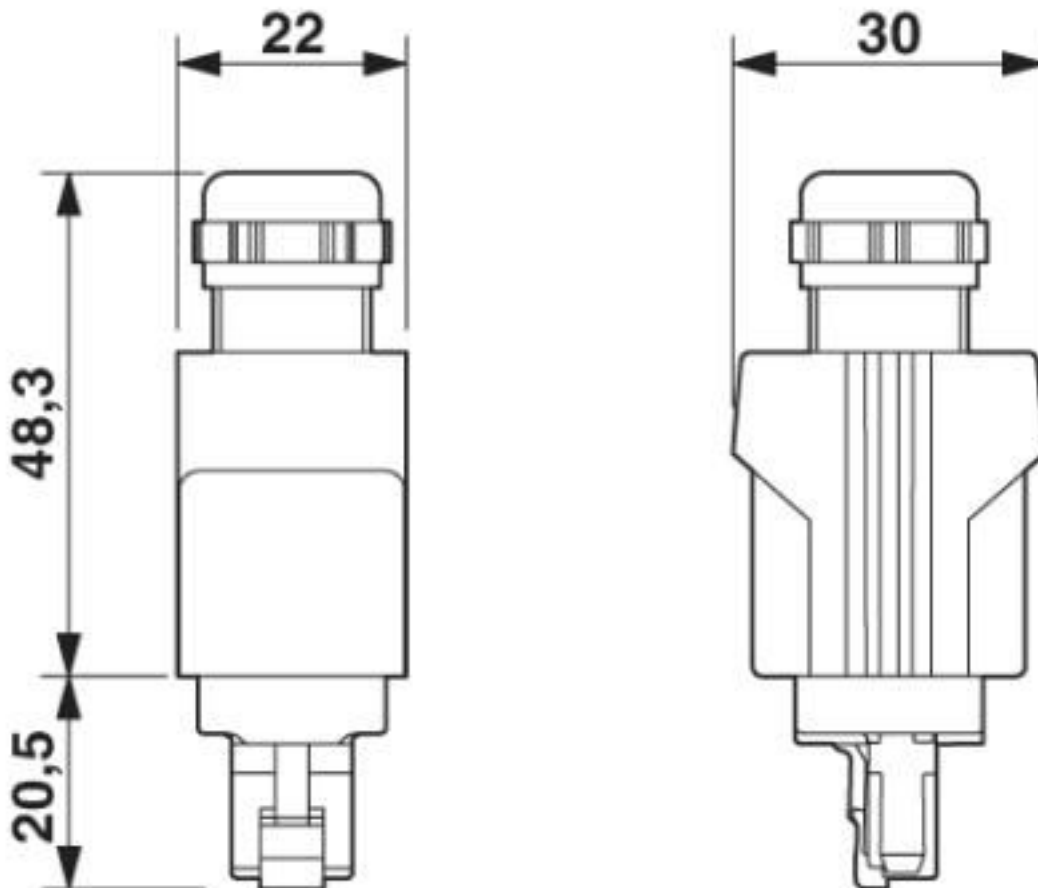
|   |                  |
|---|------------------|
| Ambient temperature (installation)      | -20 °C ... 80 °C |
| Ambient temperature (storage/transport) | -20 °C ... 80 °C |

### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

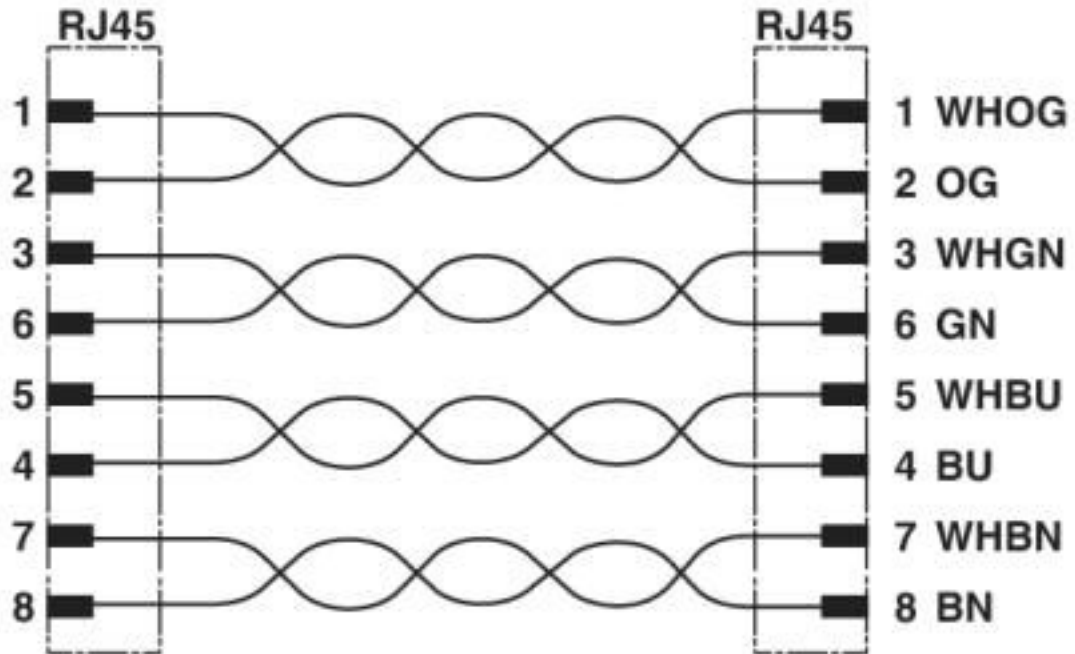
Dimensional drawing



Push-pull RJ45 connector IP65/67

# Network cable - VS-PPC/ME-PPC/ME-94C-LI/10,0 - 1413492

Circuit diagram



# Network cable - VS-PPC/ME-PPC/ME-94C-LI/10,0 - 1413492

Cable cross section



Ethernet drag chain CAT5, 4-pair [94C]

## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27060308 |
| eCl@ss 4.0    | 24010400 |
| eCl@ss 4.1    | 24010400 |
| eCl@ss 5.0    | 19030300 |
| eCl@ss 5.1    | 19030300 |
| eCl@ss 6.0    | 27061800 |
| eCl@ss 7.0    | 27060308 |
| eCl@ss 8.0    | 27060308 |
| eCl@ss 9.0    | 27060308 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000830 |
| ETIM 4.0 | EC002599 |
| ETIM 5.0 | EC002599 |
| ETIM 6.0 | EC001262 |
| ETIM 7.0 | EC001262 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 26121616 |
| UNSPSC 7.0901 | 26121616 |
| UNSPSC 11     | 26121604 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 26121604 |
| UNSPSC 18.0   | 26121604 |
| UNSPSC 19.0   | 26121604 |
| UNSPSC 20.0   | 26121604 |
| UNSPSC 21.0   | 26121604 |

## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

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### Approval details

|     |  |          |
|-----|--|----------|
| EAC |  | 19060508 |
|-----|--|----------|

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