

## Network cable - VS-PPC/ME-OE-93E-LI/5,0 - 1405743

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), RJ45 plug/IP67 push-pull metal housing on free conductor end, line, length 5 m

RoHS

### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                 |
| GTIN         |  |
| GTIN         | 4046356475938                                                                        |

### Technical data

#### Dimensions

|                 |        |
|-----------------|--------|
| Length of cable | 5.00 m |
|-----------------|--------|

#### Ambient conditions

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

#### General data

|                                         |                     |
|-----------------------------------------|---------------------|
| Number of positions                     | 4                   |
| 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           |
| Number of slots                         | 1                   |
| Transmission characteristics (category) | CAT5                |

#### Characteristics head 1

|                        |     |
|------------------------|-----|
| Shielded               | yes |
| Outer sheath, material | PUR |

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## Technical data

### Characteristics head 1

|                        |                     |
|------------------------|---------------------|
| External sheath, color | water blue RAL 5021 |
|------------------------|---------------------|

### Standards and Regulations

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

### Cable

|                                               |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| Cable type                                    | Ethernet flexible CAT5, 2-pair                     |
| Cable type (abbreviation)                     | 93E                                                |
| UL AWM style                                  | 20963 (80°C/30 V)                                  |
| Signal type/category                          | Ethernet CAT5 (IEC 11801), 100 Mbps                |
| Cable structure                               | 2x2xAWG26/7; SF/UTP                                |
| Conductor cross section                       | 2x 2x 0.14 mm <sup>2</sup>                         |
| AWG signal line                               | 26                                                 |
| Conductor structure signal line               | 7x 0.16 mm                                         |
| Core diameter including insulation            | 0.98 mm                                            |
| Wire colors                                   | white/orange-orange, white/green-green             |
| Twisted pairs                                 | 2 cores to the pair                                |
| Overall twist                                 | Two pairs with two fillers to the core             |
| Shielding                                     | Aluminum-coated foil, tinned copper braided shield |
| Optical shield covering                       | 70 %                                               |
| External sheath, color                        | water blue RAL 5021                                |
| Outer sheath thickness                        | 1.2 mm                                             |
| External cable diameter D                     | 6.4 mm ±0.2 mm                                     |
| Minimum bending radius, fixed installation    | 4 x D                                              |
| Minimum bending radius, flexible installation | 8 x D                                              |
| Tensile strength GRP                          | ≤ 80 N                                             |
| Cable weight                                  | 42 kg/km                                           |
| Outer sheath, material                        | PUR                                                |
| Material conductor insulation                 | Foamed PE                                          |
| Conductor material                            | Bare Cu litz wires                                 |
| Standards/specifications                      | Electrical requirements EN 50288-2-2               |
| Insulation resistance                         | ≥ 500 MΩ*km                                        |
| Loop resistance                               | ≤ 290.00 Ω/km                                      |
| Cable capacity                                | approx. 45 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)                                 |
|                                               | 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)                             |

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## Technical data

### Cable

|                                                      |                                                       |
|------------------------------------------------------|-------------------------------------------------------|
|                                                      | 38.4 dB (at 62.5 MHz)                                 |
|                                                      | 35.3 dB (at 100 MHz)                                  |
| Power-summed 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 (Peak value, not for high-power applications) |
| Test voltage Core/Core                               | 700 V (50 Hz, 1 min.)                                 |
| Test voltage Core/Shield                             | 700 V (50 Hz, 1 min.)                                 |
| Current carrying capacity of cable                   | 2 A (according to DIN VDE 0891-1)                     |
| Flame resistance                                     | according to IEC 60332-1-2                            |
|                                                      | in acc. to UL VW1                                     |
| 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)       |
| Ambient temperature (installation)                   | -20 °C ... 80 °C                                      |
| Ambient temperature (storage/transport)              | -20 °C ... 80 °C                                      |

## Network cable - VS-PPC/ME-OE-93E-LI/5,0 - 1405743

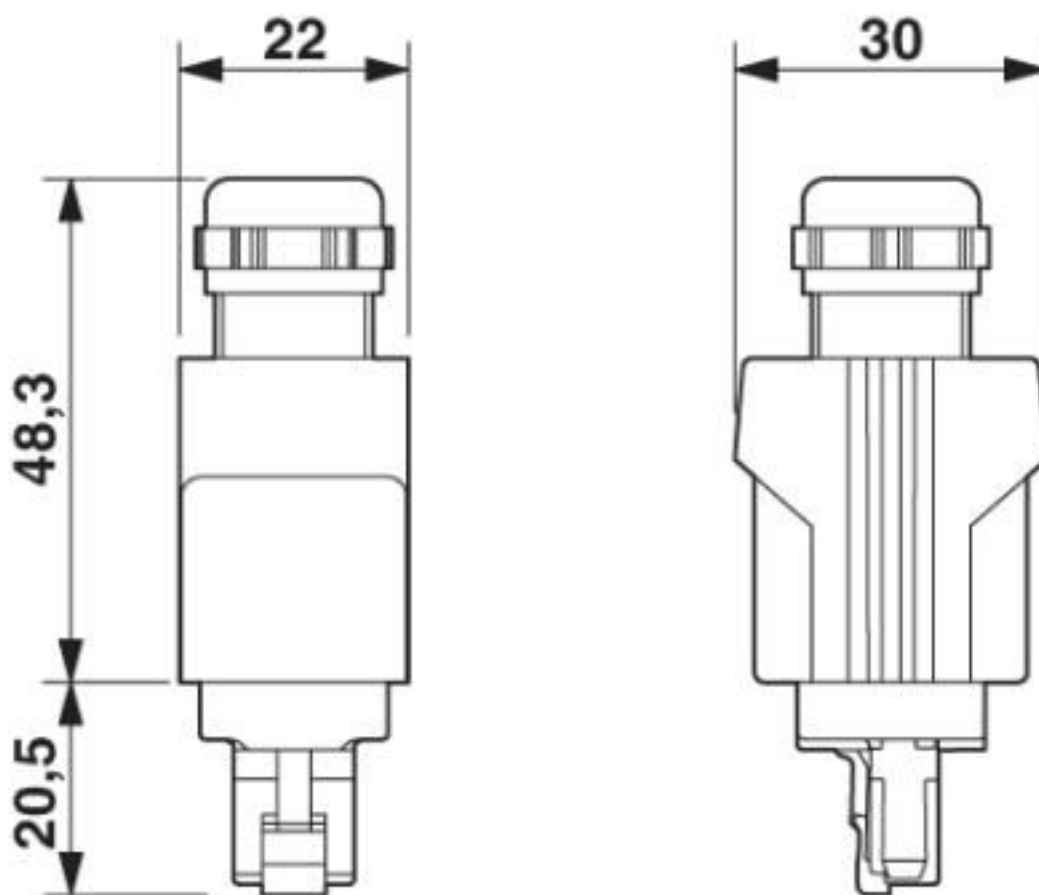
### Technical data

#### 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-OE-93E-LI/5,0 - 1405743

Cable cross section



Ethernet flexible CAT5, 2-pair [93E]

### 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 | EC001262 |
| ETIM 4.0 | EC001262 |
| 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

#### Approvals

#### EAC

#### Ex Approvals

#### Approval details

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

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