

# VS-PPC/PL-PPC/PL-94F-LI/5,0 - Network cable



1415982

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Assembled Ethernet cable, CAT6, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), RJ45 plug/IP67 push-pull plastic housing on RJ45 plug/IP67 push-pull plastic housing, line, length 5 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1415982                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB11                           |
| Product key                          | ABNABF                         |
| GTIN                                 | 4046356475020                  |
| Weight per piece (including packing) | 288.3 g                        |
| Weight per piece (excluding packing) | 273.896 g                      |
| Customs tariff number                | 85444210                       |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

|                     |                           |
|---------------------|---------------------------|
| Product type        | Data cable preassembled   |
| Product family      | RJ45 INDUSTRIAL IE8 CAT6A |
| Sensor type         | Ethernet                  |
| Number of positions | 8                         |
| Shielded            | yes                       |

### Electrical properties

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

### Material specifications

|                        |                    |
|------------------------|--------------------|
| Outer sheath, material | PUR                |
| Conductor material     | Bare Cu litz wires |

### Connector

#### Connection 1

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

#### Connection 2

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

### Cable/line

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

#### Ethernet 10 Gbit [94F]

Dimensional drawing



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

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Ambient temperature (operation) | -10 °C ... 50 °C (Cable, flexible installation) |
|---------------------------------|-------------------------------------------------|

## Standards and regulations

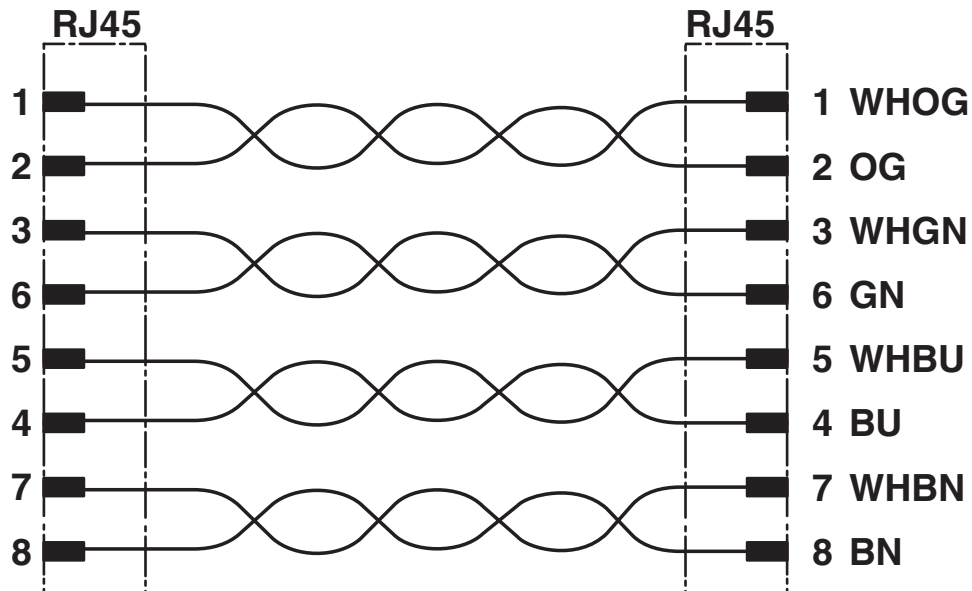
|                          |                     |
|--------------------------|---------------------|
| Standards/specifications | IEC PAS 61076-3-117 |
|--------------------------|---------------------|

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## Drawings

Circuit diagram



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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 9.0 | 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                                | e3a186b7-69b7-4b7b-8bd4-f4354679f1b6                        |

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