# VS-PPC/ME-OE-94C-LI/2,0 - Network cable

1412736

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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 free cable end, line, length 2 m

## Commercial data

| | |
|---|---|
| Item number | 1412736 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | ABNABE |
| GTIN | 4046356475655 |
| Weight per piece (including packing) | 215.2 g |
| Weight per piece (excluding packing) | 177.933 g |
| Country of origin | PL |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Data cable preassembled |
| Product family | RJ45 INDUSTRIAL IE8 CAT5 |
| Sensor type | Ethernet |
| Number of positions | 8 |
| Shielded | yes |

### Electrical properties

| | |
|---|---|
| Transmission medium | Copper |
| Transmission speed | 1 Gbps |
| Transmission speed | 1 Gbps |
| Wave impedance | 100 Ω |

### Material specifications

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

### Connector

Connection 1
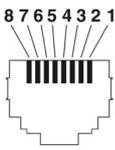
| | |
|---|---|
| Dimensional drawing |   Connector pin assignment plug RJ45 |
| Type | RJ45 Plug, straight, 8-position, Push Pull |
| Number of positions | 8 |
| Shielded | yes |
| Signal type/category | Ethernet CAT5, 1 Gbps |
| Insertion/withdrawal cycles | ≥ 250 |
| Degree of pollution | 2 |
| Material Contact | CuSn |
| Material Contact surface | Ni/Au |
| Material Contact carrier | PC |
| Material Housing | Die-cast zinc, nickel-plated |
| Color (Housing) | silver-colored |
| Flammability rating according to UL 94 | V2 |
| Degree of protection | IP67 |

|  | IP65 |
| --- | --- |
| Ambient temperature (operation) | -40 °C ... 70 °C |

## Connection 2

| Type | free cable end |
| --- | --- |

## Cable/line

| Cable length | 2.00 m |
| --- | --- |

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

| Dimensional drawing | |
| --- | --- |

| Cable weight | 57 kg/km |
| --- | --- |
| UL AWM Style | 20963 (80°C/30 V) |
| Number of positions | 8 |
| Shielded | yes |
| Cable type | Ethernet drag chain CAT5, 4-pair [94C] |
| Conductor structure | 4x2xAWG26/19, S/UTP |
| Signal runtime | 5.3 ns/m |
| Conductor structure signal line | 19x 0.10 mm |
| AWG signal line | 26 |
| Conductor cross section | 4x 2x 0.14 mm² |
| Wire diameter incl. insulation | 1 mm |
| External cable diameter | 6.90 mm +0.1 mm ... 0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PP |
| Single wire, color | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| Thickness, outer sheath | 0.85 mm |
| Twisted pairs | 2 cores to the pair |
| Overall twist | Four pairs and four fillers to the core |
| Optical shield covering | 90 % |
| Insulation resistance | ≥ 500 MΩ*km |
| Coupling resistance | ≤ 100.00 mΩ/m (at 10 MHz) |
| Loop resistance | ≤ 290.00 Ω/km |
| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
| Cable capacity | approx. 50 nF/km (at 1 kHz) |

| | |
|---|---|
| Nominal voltage, cable | ≤ 100 V |
| Test voltage Core/Core | 700 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 700.00 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 | 28 mm |
| Smallest bending radius, movable installation | 56 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 5000000, Bending radius: 7,5 x D, Traversing rate: 3 m/s, Acceleration: 5 m/s² |
| Tensile strength | ≤ 100 N |
| 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) |
| | 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) |
| Return attenuation (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) |
| Shield 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) |
| Halogen-free | according to IEC 60754-1 |
| Flame resistance | according to IEC 60332-1-2 |

| Resistance to oil | in accordance with 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 |

## Standards and regulations

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

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## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1412736

| | EAC |
|---|---|
| | Approval ID: 19060508 |

## 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 | dd99c8ed-4d7e-4ac6-8aff-9ceb129aded5 |