

# VS-IP67-IP20-94C-LI/2,0 - Network cable



1412888

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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 gray to RJ45 connector/IP20, line, length 2 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1412888                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB11                           |
| Product key                          | ABNABM                         |
| GTIN                                 | 4046356475709                  |
| Weight per piece (including packing) | 158.1 g                        |
| Weight per piece (excluding packing) | 309.763 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 BASIC IE8 CAT5     |
| Sensor type         | Ethernet                |
| Number of positions | 8                       |
| Shielded            | yes                     |

### Electrical properties

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

### Material specifications

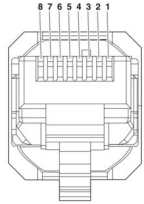
|                        |                    |
|------------------------|--------------------|
| Outer sheath, material | PUR                |
| Conductor material     | Bare Cu litz wires |

### Connector

#### Connection 1

|  |  |
|--|--|
| Type                                   | RJ45 Plug, straight, 8-position, Locking clips |
| Number of positions                    | 8  |
| Signal type/category                   | Ethernet CAT5 (IEC 11801:2002), 100 Mbps       |
| Insertion/withdrawal cycles            | ≥ 750  |
| Degree of pollution                    | 2  |
| Material Housing                       | Plastic  |
| Color (Housing)                        | gray   |
| Flammability rating according to UL 94 | V2   |
| Degree of protection                   | IP67   |
| Ambient temperature (operation)        | 0 °C ... 70 °C                                 |

#### Connection 2

|                      |  |
|----------------------|--|
| Dimensional drawing  |  <p>Connector pin assignment</p> |
| Type                 | RJ45 Plug, straight, 8-position  |
| Number of positions  | 8  |
| Signal type/category | Ethernet CAT5 (IEC 11801:2002), 1 Gbps   |

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|  |                             |
|--|-----------------------------|
| Insertion/withdrawal cycles            | ≥ 1000                      |
| Insertion force                        | < 20 N (per signal contact) |
| Withdrawal force                       | < 20 N (per signal contact) |
| Insulation resistance                  | > 500 MΩ                    |
| Overvoltage category                   | I                           |
| Degree of pollution                    | 2                           |
| Material Contact                       | CuSn                        |
| Material Contact surface               | Ni/Au                       |
| Material Contact carrier               | PC                          |
| Color (Housing)                        | gray                        |
| Flammability rating according to UL 94 | V0                          |
| Degree of protection                   | IP20                        |
| Ambient temperature (operation)        | -20 °C ... 70 °C            |

## 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 mm <sup>2</sup>   |
| 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           |

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|  |   |
|--|---|
| 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/s <sup>2</sup> |
| 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)  |
| 3.2 dB (with 1 MHz)                                    |   |

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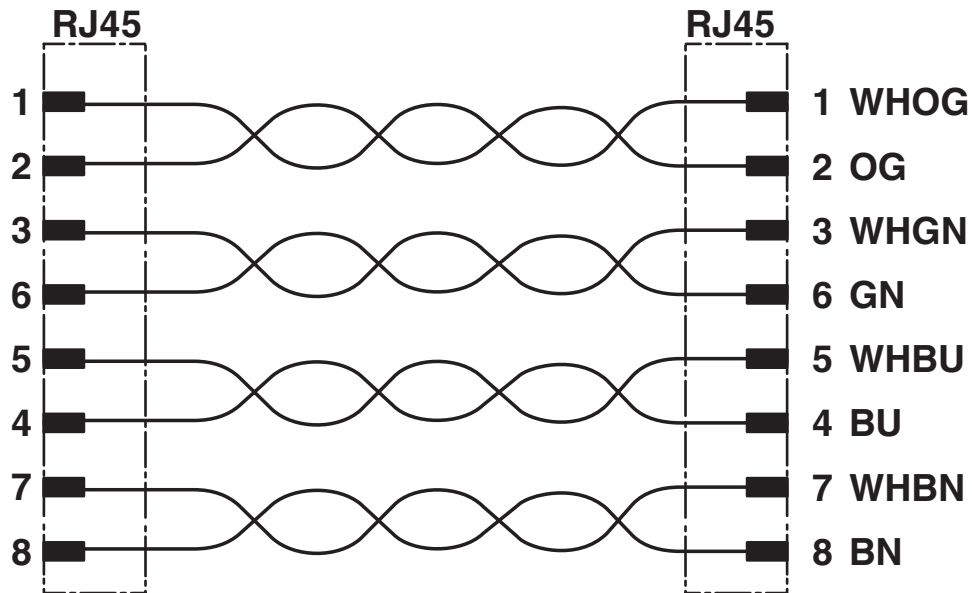
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|                                    |   |
|------------------------------------|---|
| Shield attenuation                 | 6 dB (at 4 MHz)                                 |
|                                    | 9.5 dB (at 10 MHz)                              |
|                                    | 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                                |

Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1412888>



**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)<br>2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9) |
| SCIP                                | 8ca901ba-5a1e-4728-be39-4550279577cc  |

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