

# VS-BU/C6-IP20-94F-LI/2,0 - Network cable



1415607

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Assembled Ethernet cable, CAT6, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), RJ45 socket module/IP20 for Freenet system, 8-pos. on RJ45 plug/IP20, line, length 2 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1415607                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | ABNABF                         |
| Product key                          | ABNABF                         |
| GTIN                                 | 4046356474955                  |
| Weight per piece (including packing) | 130,4 g                        |
| Weight per piece (excluding packing) | 112,34 g                       |
| Customs tariff number                | 85444210                       |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

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

### Electrical properties

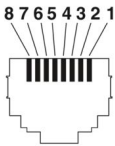
|                                         |              |
|-----------------------------------------|--------------|
| Transmission speed                      | 1 Gbps       |
| Transmission characteristics (category) | CAT6         |
| Transmission speed                      | 1 Gbps       |
| Wave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

### Material specifications

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

### Connector

#### Connection 1

|                                        |                                                                                                                           |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                    | <br>Connector pin assignment plug RJ45 |
| Type                                   | RJ45 Plug, straight, 8-position, Snap-in locking                                                                          |
| Number of positions                    | 8                                                                                                                         |
| Signal type/category                   | Ethernet CAT6 (IEC 11801:2002), 1 Gbps                                                                                    |
| Insertion/withdrawal cycles            | $\geq 750$                                                                                                                |
| Insertion force                        | 30 N (per signal contact)                                                                                                 |
| Withdrawal force                       | 50 N (per signal contact)                                                                                                 |
| Degree of pollution                    | 2                                                                                                                         |
| Material Contact                       | CuSn                                                                                                                      |
| Material Contact surface               | Ni/Au                                                                                                                     |
| Material Contact carrier               | PC                                                                                                                        |
| Color (Housing)                        | black                                                                                                                     |
| Flammability rating according to UL 94 | V2                                                                                                                        |
| Degree of protection                   | IP67<br>IP65                                                                                                              |

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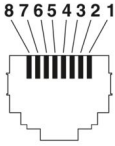


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|                                 |                  |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 60 °C |
|---------------------------------|------------------|

Connection 2

|                                        |                                                                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                    |  <p>Connector pin assignment plug RJ45</p> |
| Type                                   | RJ45 Socket, straight, 8-position, Freenet                                                                                  |
| Number of positions                    | 8                                                                                                                           |
| Signal type/category                   | Ethernet CAT5 (IEC 11801:2002), 100 Mbps                                                                                    |
| Insertion/withdrawal cycles            | ≥ 750                                                                                                                       |
| Insulation resistance                  | > 500 MΩ                                                                                                                    |
| Overvoltage category                   | I                                                                                                                           |
| Degree of pollution                    | 1                                                                                                                           |
| Material Contact                       | Copper alloy                                                                                                                |
| Material Contact surface               | Au                                                                                                                          |
| Material Contact carrier               | PC                                                                                                                          |
| Color (Housing)                        | silver-colored                                                                                                              |
| 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 10 Gbit [94F]

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

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|                                               |                                                                            |
|-----------------------------------------------|----------------------------------------------------------------------------|
| 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)                            |

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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 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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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PHOENIX CONTACT B.V.  
Hengelder 56 6902 PA Zevenaar  
Postbus 246 6900 AE Zevenaar  
(0316) 59 17 20  
[sales@phoenixcontact.nl](mailto:sales@phoenixcontact.nl)