

# VS-M12FSBP-IP67/B-94C-LI/2,0 - Network cable



1413476

<https://www.phoenixcontact.com/us/products/1413476>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Network cable, degree of protection: IP67, cable length: 2 m, number of positions: 8, CAT5, cable outlet: straight, Ethernet, 4x2xAWG26/19, S/UTP, water blue RAL 5021

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1413476       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | ABNPAA        |
| GTIN                                 | 4046356475815 |
| Weight per piece (including packing) | 173.08 g      |
| Weight per piece (excluding packing) | 173.08 g      |
| Country of origin                    | DE            |

# VS-M12FSBP-IP67/B-94C-LI/2,0 - Network cable



1413476

<https://www.phoenixcontact.com/us/products/1413476>

## Technical data

### Product properties

|                      |                                   |
|----------------------|-----------------------------------|
| Product type         | Circular connectors (device side) |
| Type                 | M12                               |
| Number of positions  | 8                                 |
| No. of cable outlets | 1                                 |
| Shielded             | yes                               |
| Cable outlet         | straight                          |

### Insulation characteristics

|                     |   |
|---------------------|---|
| Degree of pollution | 3 |
|---------------------|---|

### Material specifications

|  |    |
|--|----|
| Flammability rating according to UL 94 | V2 |
|--|----|

### Electrical properties

|   |                       |
|---|-----------------------|
| Transmission medium                     | Copper                |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |
| Transmission speed                      | 1 Gbps                |

### Mechanical properties

#### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|-------|

### Connector

#### Connection 1

|      |  |
|------|--|
| Type | Flush-type female connector straight M12 |
|------|--|

#### Connection 2

|                      |                    |
|----------------------|--------------------|
| Type                 | Plug straight RJ45 |
| Degree of protection | IP67               |

### Cable/line


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

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

# VS-M12FSBP-IP67/B-94C-LI/2,0 - Network cable

1413476

<https://www.phoenixcontact.com/us/products/1413476>

|   |   |
|---|---|
| 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                                      |
| 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> |

# VS-M12FSBP-IP67/B-94C-LI/2,0 - Network cable



1413476

<https://www.phoenixcontact.com/us/products/1413476>

|  |   |
|--|---|
| 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                                |

## Environmental and real-life conditions

### Ambient conditions

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

# VS-M12FSBP-IP67/B-94C-LI/2,0 - Network cable



1413476

<https://www.phoenixcontact.com/us/products/1413476>

---

IP67

# VS-M12FSBP-IP67/B-94C-LI/2,0 - Network cable

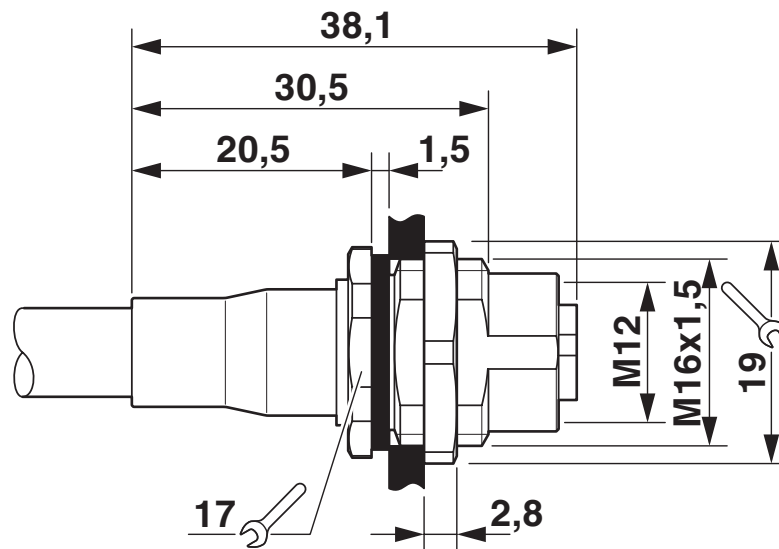


1413476

<https://www.phoenixcontact.com/us/products/1413476>

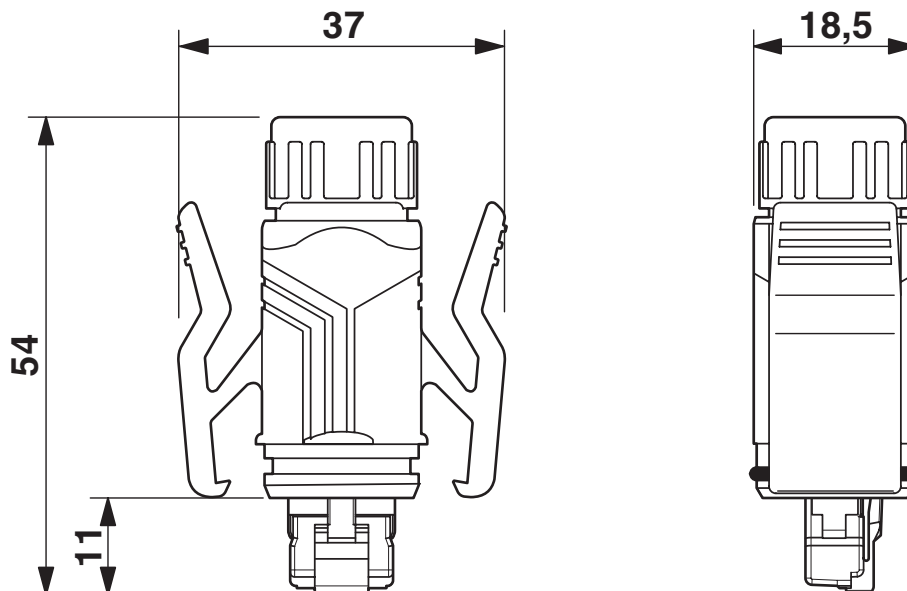
## Drawings

Dimensional drawing



M12 flush-type connector

Dimensional drawing



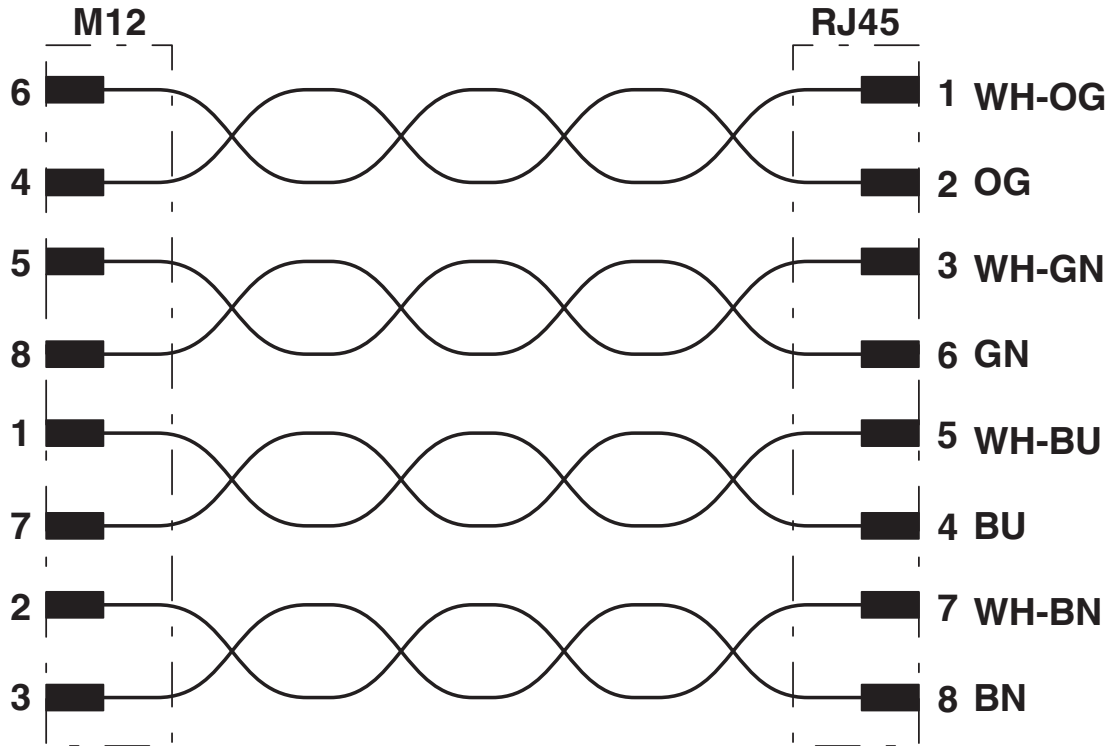
# VS-M12FSBP-IP67/B-94C-LI/2,0 - Network cable



1413476

<https://www.phoenixcontact.com/us/products/1413476>

Circuit diagram



# VS-M12FSBP-IP67/B-94C-LI/2,0 - Network cable



1413476

<https://www.phoenixcontact.com/us/products/1413476>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440103 |
| ECLASS-15.0 | 27440103 |

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

# VS-M12FSBP-IP67/B-94C-LI/2,0 - Network cable



1413476

<https://www.phoenixcontact.com/us/products/1413476>

## Environmental product compliance

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)