

## Network cable - VS-FSBPXS-OE-94F/0,5 - 1424135

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Assembled Ethernet cable, CAT6<sub>A</sub>, shielded, 4-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), M12 flush-type socket, rear/screw mounting with M16 thread to free cable end, length: 0.5 m

### Why buy this product

- Pre-assembled with cables in various standard lengths for immediate use
- Customer-specific assemblies and cable lengths can be supplied
- Sealed on the cable side for optimum tightness of seal
- Cable designs for all common networks and fieldbuses
- For high transmission safety: shield connection to the housing with optional EMC nut



### Key Commercial Data

|                      |               |
|----------------------|---------------|
| Packing unit         | 1 STK         |
| GTIN                 |               |
| GTIN                 | 4046356692618 |
| Custom tariff number | 85444290      |

### Technical data

#### Mechanical characteristics

|                             |           |
|-----------------------------|-----------|
| Number of positions         | 8         |
| Number of slots             | 1         |
| Insertion/withdrawal cycles | ≥ 100     |
| Cable exit                  | straight  |
| Length of cable             | 0.5 m     |
| Insulation resistance       | ≥ 100 MΩ  |
| Degree of protection        | IP67      |
|                             | IP65/IP67 |
| No. of cable outlets        | 1         |

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## Technical data

### Ambient conditions

|                                 |   |
|---------------------------------|---|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket)                |
|                                 | -40 °C ... 90 °C (without mechanical actuation) |
| Degree of protection            | IP65  |
|                                 | IP67  |

### Material data

|  |                              |
|--|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Contact carrier material               | PPA                          |
| Contact material                       | CuZn                         |
| Contact surface material               | Au                           |
| Cable gland material                   | Zinc die-cast, nickel-plated |
| Sealing material                       | FKM                          |

### Electrical characteristics

|   |                   |
|---|-------------------|
| Rated surge voltage                     | 0.8 kV            |
| Insulation resistance                   | ≥ 100 MΩ          |
| Transmission characteristics (category) | CAT6 <sub>A</sub> |

### Standards and Regulations

|  |    |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

### Line characteristics

|                                    |  |
|------------------------------------|--|
| Cable type                         | Ethernet 10 Gbit   |
| Cable abbreviation                 | 02YSC11Y   |
| UL AWM style                       | 20963 (80°C/30 V)  |
| Cable structure                    | 4x2xAWG26/7; S/FTP   |
| Conductor cross section            | 4x 2x 0.14 mm <sup>2</sup>   |
| AWG signal line                    | 26   |
| Conductor structure signal line    | 7x 0.16 mm   |
| Core diameter including insulation | 1.04 mm  |
| External cable diameter            | 6.4 mm ±0.2 mm   |
| Wire colors                        | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| External sheath, color             | water blue RAL 5021  |
| Transmission medium                | Copper   |
| Insulation resistance              | ≥ 500 MΩ*km  |
| Wave impedance                     | 100 Ω ±5 Ω (at 100 MHz)  |
| Signal runtime                     | 5.13 ns/m  |
| Shield attenuation                 | ≥ 80 dB (at 30 ... 100 MHz)  |
| Nominal voltage, cable             | ≤ 100 V  |
| Test voltage Core/Core             | 700 V (50 Hz, 1 min.)  |
| Test voltage Core/Shield           | 700 V (50 Hz, 1 min.)  |
| Twisted pairs                      | 2 cores to the pair  |

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## Technical data

### Line characteristics

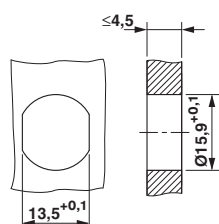
|   |   |
|---|---|
| Type of pair shielding                        | Aluminum-lined foil                             |
| Overall twist                                 | 4 pairs for core                                |
| Shielding                                     | Tinned copper braided shield                    |
| Optical shield covering                       | 70 %  |
| Outer sheath, material                        | PUR   |
| Material conductor insulation                 | Foamed PE                                       |
| Conductor material                            | Bare Cu litz wires                              |
| Cable weight                                  | 42 kg/km  |
| Minimum bending radius, fixed installation    | 4 x D   |
| Minimum bending radius, flexible installation | 8 x D   |
| Tensile strength short-term/long-term         | ≤ 100 N   |
| Flame resistance                              | according to IEC 60332-1-2                      |
| Halogen-free                                  | According to IEC 60754-1                        |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1             |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)    |
|   | -20 °C ... 80 °C (cable, flexible installation) |

### Environmental Product Compliance

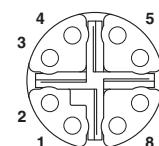
|            |   |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Dimensional drawing



Schematic diagram



M12 socket pin assignment, 8-pos, view of socket side

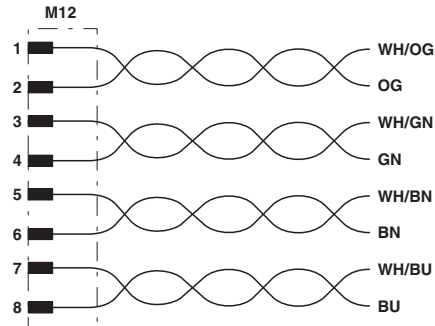
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Cable cross section



Ethernet 10 Gbit [94F]

Circuit diagram



Contact assignment of the M12 plug

## Approvals

### Approvals

Approvals

EAC / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

### Approval details

|     |  |         |
|-----|--|---------|
| EAC |  | B.00767 |
|-----|--|---------|

|                    |       |   |               |
|--------------------|-------|---|---------------|
| UL Recognized      |       | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 335024 |
| Nominal current IN | 0.5 A |   |               |
| Nominal voltage UN | 60 V  |   |               |

|                    |       |   |               |
|--------------------|-------|---|---------------|
| cUL Recognized     |       | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 335024 |
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cULus Recognized



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>