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# Network cable - VS-M12FSBP-OE-93E-LI/2,0 - 1405866

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 flush-type socket, rear/screw mounting with M16 thread on free conductor end, line, length 2 m

## Product Features

- 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 pc |
|---|---|
| Weight per Piece (excluding packing) | 120.0 g |
| Custom tariff number | 85444290 |
| Country of origin | Germany |

## Technical data

### Dimensions

| Length of cable | 2 m |
|---|---|

### Ambient conditions

| Degree of protection | IP65 |
|---|---|
| | IP67 |

### General data

| Note | The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration. |
|---|---|

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## Technical data

### General data

| Rated current at 40°C | 4 A |
|---|---|
| Rated voltage | 250 V |
| Number of positions | 4 |
| Signal type/category | Ethernet CAT5 (IEC 11801:2002), 100 Mbps |
| Overvoltage category | II |
| Degree of pollution | 3 |

### Characteristics head 1

| Head type | Flush-type socket straight M12 SPEEDCON / IP67 |
|---|---|
| No. of positions (pin connector pattern) | 4 |
| Coding | D (Data) |

### Characteristics head 2

| Head type | free cable end |
|---|---|

### Standards and Regulations

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

### Cable

| Cable type | PUR ETHERNET 2x2 FLEX |
|---|---|
| Cable type (abbreviation) | 93E |
| UL AWM style | 20963 (80°C/30 V) |
| Signal type/category | Ethernet CAT5 (IEC 11801), 100 Mbps |
| Cable structure | 2x2xAWG26/7; SF/UTP |
| Conductor cross section | 2x 2x 0.14 mm² |
| AWG signal line | 26 |
| Conductor structure signal line | 7x 0.16 mm |
| Core diameter including insulation | 0.98 mm |
| Wire colors | white/orange-orange, white/green-green |
| Twisted pairs | 2 cores to the pair |
| Overall twist | Two pairs with two fillers to the core |
| Shielding | Aluminum-coated foil, tinned copper braided shield |
| Optical shield covering | 70 % |
| External sheath, color | water blue RAL 5021 |
| Outer sheath thickness | 1.2 mm |
| External cable diameter D | 6.4 mm ±0.2 mm |
| Minimum bending radius, fixed installation | 4 x D |
| Minimum bending radius, flexible installation | 8 x D |
| Tensile strength short-term/long-term | $\leq$ 80N |

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## Technical data

### Cable

| | |
|---|---|
| Cable weight | 42 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | Foamed PE |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | $\geq$ 500 MΩ*km |
| Conductor resistance | $\leq$ 290 Ω/km |
| Cable capacity | approx. 45 nF/km (at 1 kHz) |
| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
| Signal runtime | 5.3 ns/m |
| Coupling resistance | $\leq$ 100.00 mΩ/m (At 10 MHz) |
| Nominal voltage, cable | $\leq$ 100 V |
| Test voltage Core/Core | 700 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 700 V (50 Hz, 1 min.) |
| Flame resistance | According to IEC 60332-1-2 |
| | in acc. to UL VW1 |
| 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) |
| Ambient temperature (installation) | -20 °C ... 80 °C |
| Ambient temperature (storage/transport) | -20 °C ... 80 °C |

## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27060307 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27060308 |
| eCl@ss 9.0 | 27060308 |

### ETIM

| | |
|---|---|
| ETIM 3.0 | EC001262 |
| ETIM 4.0 | EC001262 |

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## Classifications

### ETIM

| ETIM 5.0 | EC002599 |
|----------|----------|

### UNSPSC

| UNSPSC 6.01 | 26121616 |
|-------------|----------|
| UNSPSC 7.0901 | 26121616 |
| UNSPSC 11 | 26121604 |
| UNSPSC 12.01 | 31261501 |
| UNSPSC 13.2 | 26121616 |

## Approvals

### Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

### Approval details

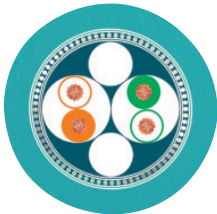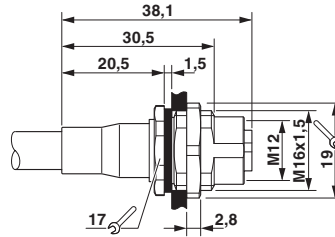| EAC |
|-----|

## Drawings

Dimensional drawing
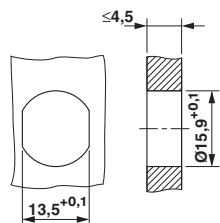


Cable cross section



Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

PUR ETHERNET 2x2 FLEX [93E]

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# Network cable - VS-M12FSBP-OE-93E-LI/2,0 - 1405866

Dimensional drawing



M12 flush-type connector

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