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Network cable - VS-M12MSS-OE-94F/ 2,0/10G - 1440546

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Assembled Ethernet cable, CAT6_A, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 plug on free conductor end, length 2 m



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 STK |
| GTIN |  4 046356 504461 |

Technical data

Dimensions

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

Ambient conditions

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

General data

| | |
|-----------------------|--------------------------------------|
| Rated current at 40°C | 0.5 A |
| Rated voltage | 48 V |
| Number of positions | 8 |
| Signal type/category | Ethernet CAT6 _A , 10 Gbps |
| Overvoltage category | II |
| Degree of pollution | 3 |

Characteristics head 1

| | |
|--|-----------------------------------|
| Head type | Plug straight M12 SPEEDCON / IP65 |
| No. of positions (pin connector pattern) | 8 (8) |
| Coding | X (Data) |
| Color | black |

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Technical data

Characteristics head 1

| | |
|----------|-----|
| Shielded | yes |
|----------|-----|

Characteristics head 2

| | |
|--|----------------|
| Head type | free cable end |
| No. of positions (pin connector pattern) | 8 |
| Shielded | yes |

Standards and Regulations

| | |
|--|----|
| Connection in acc. with standard | UL |
| Flammability rating according to UL 94 | HB |

Cable

| | |
|---|--|
| Cable type | Ethernet 10 Gbit |
| Cable type (abbreviation) | 94F |
| UL AWM style | 20963 (80°C/30 V) |
| Cable structure | 4x2xAWG26/7; S/FTP |
| Conductor cross section | 4x 2x 0.14 mm ² |
| AWG signal line | 26 |
| Conductor structure signal line | 7x 0.16 mm |
| Core diameter including insulation | 1.04 mm |
| Wire colors | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| Twisted pairs | 2 cores to the pair |
| Type of pair shielding | Aluminum-lined foil |
| Overall twist | 4 pairs for core |
| Shielding | Tinned copper braided shield |
| Optical shield covering | 70 % |
| External sheath, color | water blue RAL 5021 |
| Outer sheath thickness | 0.65 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 | ≤ 100 N |
| Cable weight | 42 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | Foamed PE |
| Conductor material | Bare Cu litz wires |
| Insulation resistance | ≥ 500 MΩ*km |
| Conductor resistance | ≤ 290 Ω/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 |

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Technical data

Cable

| | |
|---|---|
| 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 |
| 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 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27060307 |
| eCl@ss 6.0 | 27060390 |
| eCl@ss 7.0 | 27060390 |
| eCl@ss 8.0 | 27060308 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000830 |
| ETIM 3.0 | EC000830 |
| ETIM 4.0 | EC002599 |
| ETIM 5.0 | EC002599 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 26121609 |
| UNSPSC 7.0901 | 26121609 |
| UNSPSC 11 | 26121609 |
| UNSPSC 12.01 | 26121609 |
| UNSPSC 13.2 | 26121609 |

Approvals

Approvals

Approvals

UL Recognized

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Approvals

Ex Approvals

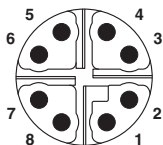
Approvals submitted

Approval details

| | |
|--------------------------------|-------|
| UL Recognized | |
| Nominal current I _N | 0.5 A |
| Nominal voltage U _N | 30 V |

Drawings

Schematic diagram



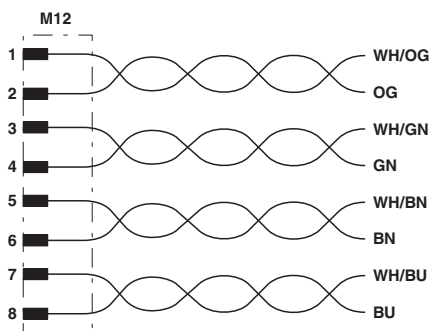
Pin assignment M12 plug, 8-pos., view plug side

Cable cross section



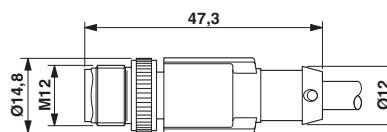
Ethernet 10 Gbit [94F]

Circuit diagram



Contact assignment of the M12 plugs

Dimensional drawing



Dimens. drawing: M12 connectors

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