

Network cable - VS-M12MSS-M12MSS-94F/20,0/10G - 1440520

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Assembled Ethernet cable, CAT6_A, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 connector on M12 connector, length 20 m

Key commercial data

| | |
|------------------------|--|
| Packing unit | 0 |
| Minimum order quantity | 1 |
| Catalog page | Page 305 (PC-2011) |
| GTIN |  4 046356 504447 |
| Custom tariff number | 85444290 |
| Country of origin | GERMANY |

Technical data

General data

| | |
|-----------------------|----------|
| Rated current at 40°C | 0.5 A |
| Rated voltage | 48 V |
| Number of positions | 8 |
| Volume resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Length of cable | 20 m |

General characteristics

| | |
|------------------------|-----------------|
| Surge voltage category | II |
| Pollution degree | 3 |
| Degree of protection | IP65/IP67/IP69K |

Conductor data

| | |
|------------------------------------|------------------------------|
| Cable type | Ethernet |
| Cable type (abbreviation) | 94F |
| Cable structure | 4x2xAWG26/7; S-FTP |
| Conductor cross section | 4 x 2 x 0.14 mm ² |
| AWG signal line | 26 |
| Conductor structure signal line | 7x 0.16 mm |
| Core diameter including insulation | 1.04 mm |

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Technical data

Conductor data

| | |
|---|--|
| Thickness, insulation | 0.28 mm (signal line) |
| Thickness, insulation | 0.65 mm (Outer cable sheath) |
| 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 |
| Insulation resistance | ≥ 500 MΩ*km (at 20 °C) |
| Conductor resistance | ≤ 290 Ω/km (at 20 °C) |
| Transmission characteristics (category) | CAT6A |
| Wave impedance | 100 Ω ± 5 Ω (At 100 MHz) |
| Signal runtime | 5.3 ns/m |
| Shield attenuation | ≥ 80 dB (At 30 ... 100 MHz) |
| Nominal voltage, conductor | ≤ 100 V (at 20 °C) |
| 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 |
| Type of pair shielding | Aluminum-lined polyester foil |
| Overall twist | 4 pairs |
| Shielding | Tinned copper braided shield |
| Optical shield covering | 70 % |
| Outer sheath, material | PUR |
| Material conductor insulation | PE |
| Conductor material | Bare Cu litz wires |
| Cable weight | 42 kg/km |
| Smallest bending radius, fixed installation | 25.6 mm |
| Smallest bending radius, movable installation | 51.2 mm |
| Ambient temperature (operation) | -20 °C ... 80 °C (Cable) |
| Flame resistance | IEC 60332-1-2 |
| Halogen-free | According to IEC 60754-1 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |

Classifications

eclass

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

etim

| | |
|----------|----------|
| ETIM 2.0 | EC000830 |
|----------|----------|

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Classifications

etim

| | |
|----------|----------|
| ETIM 3.0 | EC000830 |
| ETIM 4.0 | EC002599 |

unspsc

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

Drawings

Schematic diagram

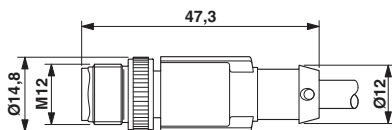
Pin assignment M12 plug, 8-pos., view plug side

Cable cross section



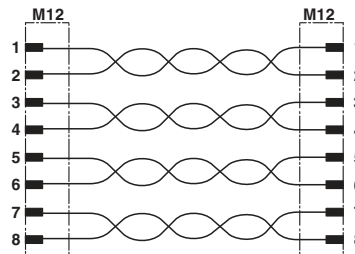
Ethernet [94F]

Dimensioned drawing



Dimens. drawing: M12 connectors

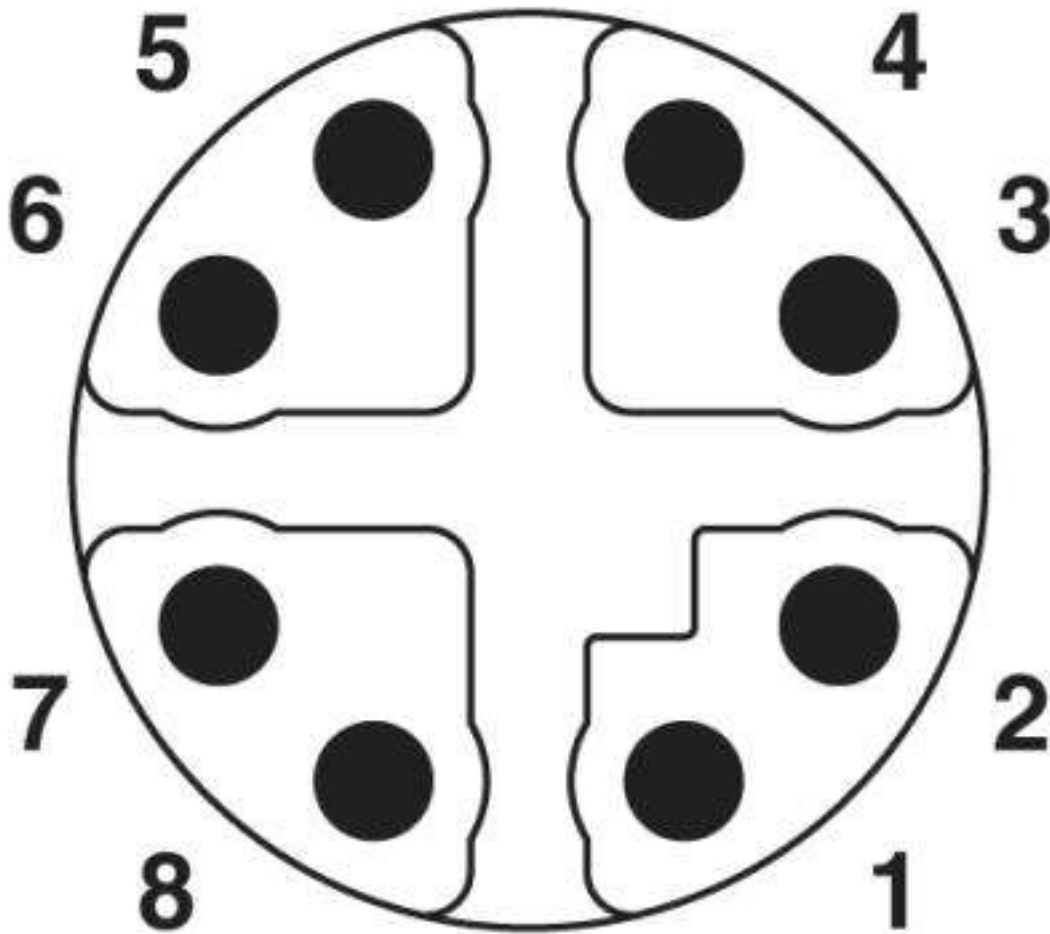
Circuit diagram



Contact assignment of the M12 plugs

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Schematic diagram



M12 Cat6_A, 8-pos. connector pin assignment, pin side view