

Network cable - VS-M12MSD-RJ45X-931/ 1,5 - 1564338

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 4-pos. D-coded on RJ45 connector, length: 1.5 m, customer version



Ethernet

Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 1 |
| Minimum order quantity | 50 1 |
| Weight per Piece (excluding packing) | 106.3 GRM |
| Custom tariff number | 85444210 |
| Country of origin | Germany |

Technical data

Mechanical characteristics

| | |
|---------------------|--------------------|
| Number of positions | 4 |
| Shielded | Yes |
| Cable diameter | 6.70 mm |
| Cable structure | 2x2xAWG26/7; S-FTP |
| Length of cable | 1.5 m |

Ambient conditions

| | |
|---------------------------------|---|
| Ambient temperature (operation) | -20 °C ... 60 °C (cable, fixed installation) |
| | 0 °C ... 50 °C (cable, flexible installation) |
| | (Plug / socket) |
| Degree of protection | IP67/IP20 |

Material data

| | |
|------------------------|---------------------|
| Housing material | TPU/PA |
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |

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Technical data

Electrical characteristics

| | |
|---|--|
| Transmission characteristics (category) | CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001) |
|---|--|

Line characteristics

| | |
|---|---|
| Cable type | Ethernet |
| Cable structure | 2x2xAWG26/7 PIMF |
| Conductor cross section | 2x 2x 0.14 mm ² |
| AWG signal line | 26 |
| Conductor structure signal line | 7x 0.15 mm |
| Core diameter including insulation | ≤ 1.05 mm |
| External cable diameter | 6.7 mm |
| Wire colors | white/orange-orange, white/green-green |
| External sheath, color | water blue RAL 5021 |
| Transmission medium | Copper |
| Insulation resistance | ≥ 5 GΩ*km |
| Conductor resistance | ≤ 150 Ω/km |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001) |
| Working capacitance | 42 pF |
| Wave impedance | 100 Ω ±5 % (At 100 MHz) |
| Signal speed | 0.72 c |
| Shield attenuation | 60 dB (Up to 1000 MHz) |
| Coupling resistance | 5.00 mΩ/m (At 10 MHz) |
| Nominal voltage, cable | max. 125 V |
| Test voltage, cable | 1000 V |
| Twisted pairs | 2 cores to the pair |
| Type of pair shielding | Aluminum-lined polyester foil |
| Overall twist | Two pairs with two fillers to the core |
| Shielding | Tinned copper braided shield |
| Outer sheath, material | PUR |
| Material conductor insulation | Cell PE |
| Conductor material | Bare Cu litz wires |
| Cable weight | 42 kg/km |
| Smallest bending radius, movable installation | 34 mm |
| Tensile strength short-term/long-term | 30N bei Installation / 10N nach Installation |
| Special properties | Free of substances which would hinder coating with paint or varnish |
| Flame resistance | complying with IEC 60332-2-2 |
| Halogen-free | complying with IEC 60754-1/2 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Other resistance | Microbe resistance as per VDE 0282 section 10 |

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Line characteristics

| | |
|---------------------------------|---|
| | Hydrolysis resistance as per DIN 53504 |
| Ambient temperature (operation) | -40 °C ... 70 °C (cable, fixed installation) |
| | -10 °C ... 50 °C (cable, flexible installation) |

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 |

ETIM

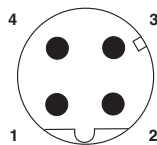
| | |
|----------|----------|
| ETIM 3.0 | EC000830 |
| ETIM 4.0 | EC000830 |
| ETIM 5.0 | EC000830 |

UNSPSC

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

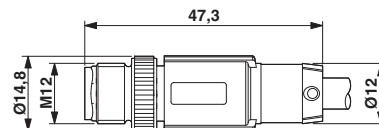
Drawings

Schematic diagram



Pin assignment M12 male connector, 4-pos., D-coded, male side

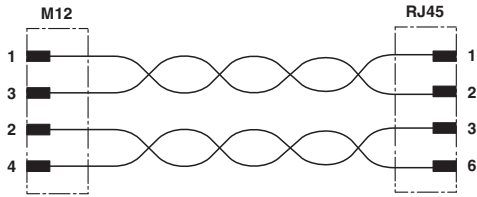
Dimensioned drawing



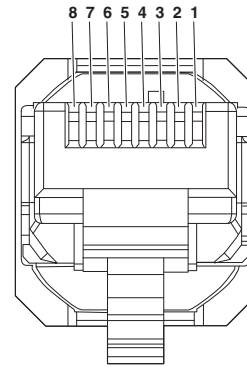
Plug, M12 x 1, straight, shielded

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Circuit diagram

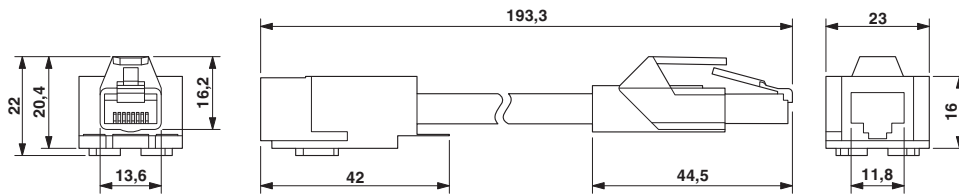


Schematic diagram



Connector pin assignment plug RJ45

Dimensioned drawing



RJ45 connector, IP20