

Network cable - VS-M12MSD-RJ45X-931/ 2,0 - 1561797


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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: 2 m, customer version



Key Commercial Data

| | |
|------------------------|---|
| Packing unit | 1 pc |
| Minimum order quantity | 50 pc |
| GTIN |  4 046356 288637 |
| GTIN | 4046356288637 |

Technical data

Mechanical characteristics

| | |
|----------------------|--------------------|
| Number of positions | 4 |
| Shielded | yes |
| Cable diameter | 6.70 mm |
| Cable structure | 2x2xAWG26/7; S-FTP |
| Length of cable | 2 m |
| Degree of protection | IP67/IP20 |

Ambient conditions

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

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) |
|---|-----------------------|

Line characteristics

| | |
|---------------------------------------|--|
| Cable type | PUR ETHERNET 2x2 FLEX |
| Cable abbreviation | 02YS(ST)C11Y |
| UL AWM style | 20963 (80°C/30 V) |
| Cable structure | 2x2xAWG26/7; SF/UTP |
| Conductor cross section | 2x 2x 0.14 mm ² |
| AWG signal line | 26 |
| Conductor structure signal line | 7x 0.16 mm |
| Core diameter including insulation | 0.98 mm |
| External cable diameter | 6.4 mm ±0.2 mm |
| Wire colors | white/orange-orange, white/green-green |
| External sheath, color | water blue RAL 5021 |
| Transmission medium | Copper |
| Insulation resistance | ≥ 500 MΩ*km |
| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
| Near end crosstalk attenuation (NEXT) | 65.3 dB (with 1 MHz) |
| | 56.3 dB (at 4 MHz) |
| | 50.3 dB (at 10 MHz) |
| | 47.2 dB (at 16 MHz) |
| | 45.8 dB (at 20 MHz) |
| | 42.9 dB (at 31.25 MHz) |
| | 38.4 dB (at 62.5 MHz) |
| | 35.3 dB (at 100 MHz) |
| Wave attenuation | 3.2 dB (with 1 MHz) |
| | 6 dB (at 4 MHz) |
| | 9.5 dB (at 10 MHz) |
| | 12.1 dB (at 16 MHz) |
| | 13.6 dB (at 20 MHz) |
| | 17.1 dB (at 31.25 MHz) |
| | 24.8 dB (at 62.5 MHz) |
| | 32 dB (at 100 MHz) |
| Return Loss | 23 dB (at 4 MHz) |
| | 24.1 dB (at 8 MHz) |
| | 25 dB (at 10 MHz) |
| | 25 dB (at 16 MHz) |
| | 25 dB (at 20 MHz) |
| | 23.6 dB (at 31.25 MHz) |
| | 21.5 dB (at 62.5 MHz) |
| | 20.1 dB (at 100 MHz) |

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Technical data

Line characteristics

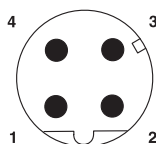
| | |
|---|---|
| Signal runtime | 5.3 ns/m |
| Coupling resistance | ≤ 100.00 mΩ/m (at 10 MHz) |
| Nominal voltage, cable | ≤ 100 V (Peak value, not for high-power applications) |
| Test voltage Core/Core | 700 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 700 V (50 Hz, 1 min.) |
| Twisted pairs | 2 cores to the pair |
| Overall twist | Two pairs with two fillers to the core |
| Shielding | Aluminum-coated foil, 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 |
| Flame resistance | according to IEC 60332-1-2 |
| | in acc. to UL VW1 |
| Halogen-free | according to IEC 60754-1 |
| Resistance to oil | according to EN 60811-2-1 |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -20 °C ... 80 °C (cable, flexible installation) |

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Schematic diagram



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

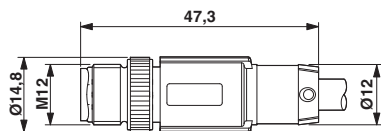
Cable cross section



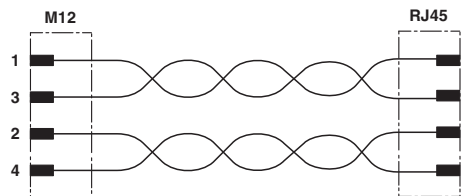
PUR ETHERNET 2x2 FLEX [93E]

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Dimensional drawing

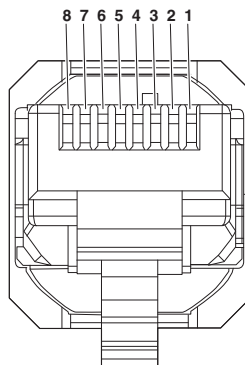


Circuit diagram



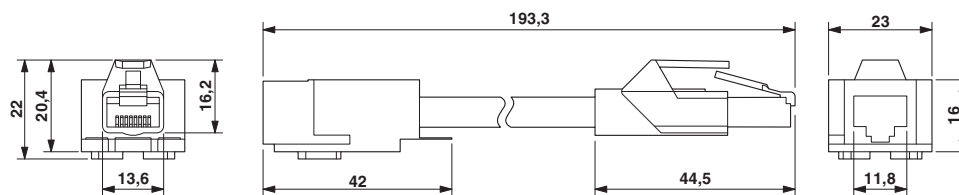
Plug, M12 x 1, straight, shielded

Schematic diagram



Connector pin assignment plug RJ45

Dimensional drawing



RJ45 connector, IP20

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