


VS-M12MSD-RJ45-931/ 5,0

Order No.: 1657591

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1657591>

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: 5 m

Ethernet**Commercial data**

| | |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN) |  4 046356 101622 |
| sales group | D514 |
| Pack | 1 pcs. |
| Customs tariff | 85444210 |
| Catalog page information | Page 182 (PC-2007) |

Product notes

WEEE/RoHS-compliant since:
02/10/2006



<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data**Mechanical characteristics**

| | |
|-----------------------------|---------|
| Number of positions | 4 |
| Shielded | Yes |
| Insertion/withdrawal cycles | ≥ 100 |
| Cable diameter | 6.70 mm |

| | |
|-----------------------------------------------|-----------------------------------------------|
| Cable structure | 2x2xAWG26/7; S-FTP |
| Smallest bending radius, fixed installation | Min. 35 mm |
| Smallest bending radius, movable installation | Min. 35 mm |
| Length of cable | 5 m |
| Ambient temperature (operation) | -20 °C ... 60 °C (cable, fixed installation) |
| | 0 °C ... 50 °C (cable, flexible installation) |
| | (Male connector / female connector) |

Material data

| | |
|------------------------|---------------------|
| Housing material | TPU/PA |
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |
| Degree of protection | IP67/IP20 |

Electrical characteristics

| | |
|-----------------------------------------|----------------------------------------------|
| Rated voltage (III/3) | 60 V |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001) |

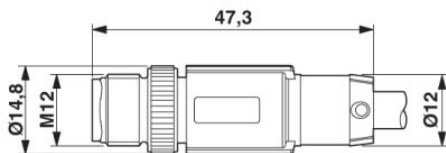
Line characteristics

| | |
|-----------------------------------------|----------------------------------------------|
| Cable type | Ethernet |
| Cable structure | 2x2xAWG26/7 PIMF |
| Conductor cross section | 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 | 6.70 mm |
| Wire colors | White-green, white-orange |
| External sheath, color | water blue RAL 5021 |
| 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, conductor | max. 125 V |

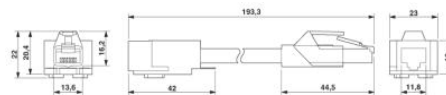
| | |
|-----------------------------------------------|-----------------------------------------------------------------------------------------|
| Test voltage, conductor | 1000 V |
| Twisted pairs | 2 cores to the pair |
| Type of pair shielding | Aluminum-lined polyester foil |
| Overall twist | Two 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 (cable, flexible installation) |
| 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 Hydrolysis resistance as per DIN 53504 |

Diagrams/Drawings

Dimensioned drawing

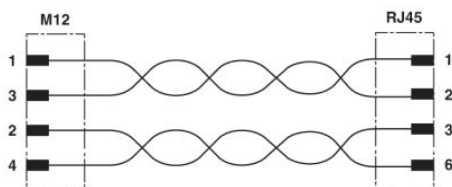


M12 x 1 male connector, straight, shielded

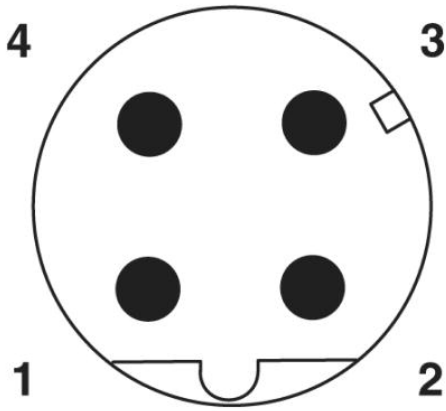


RJ45 plug connector, IP20

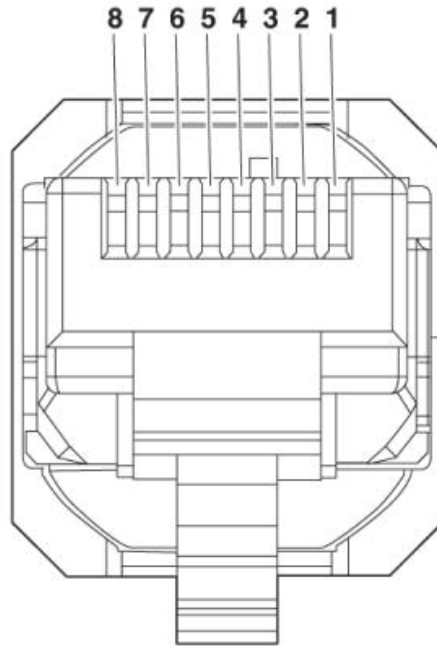
Circuit diagram



Schematic diagram



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



Connector pin assignment plug RJ45

Address

PHOENIX CONTACT Deutschland GmbH
Flachmarktstr. 8
32825 Blomberg, Germany
Phone +49 5235 3 12000
Fax +49 5235 3 41200
<http://www.phoenixcontact.de>



© 2011 Phoenix Contact
Technical modifications reserved;