

**VS-M12MS-8CON-RJ45-940/5,0**

Order No.: 1658781

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Assembled Ethernet cable, CAT 5e, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 8-pos. A-coded on RJ45 plug, length: 5 m


**Ethernet****Product notes**

WEEE/RoHS-compliant since:  
01/31/2007



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**Commercial data**

GTIN (EAN)	
sales group	D512
Pack	1 pcs.
Customs tariff	85444290
Catalog page information	Page 183 (PC-2007)

**Technical data****Mechanical characteristics**

Number of positions	8
Shielded	Yes
Insertion/withdrawal cycles	≥ 100
Cable diameter	6.70 mm

Cable structure	4x2xAWG26/7; S-FTP
Smallest bending radius, fixed installation	min. 33.5 mm
Smallest bending radius, movable installation	min. 33.5 mm
Length of cable	5 m
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-10 °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)	30 V
Transmission characteristics (category)	CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001)

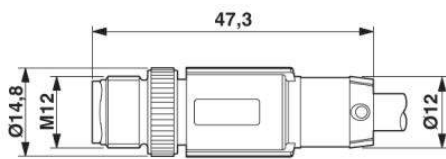
#### Line characteristics

Cable type	Ethernet
Cable structure	4x2xAWG26/7; S-FTP
Conductor cross section	0.14 mm <sup>2</sup>
AWG signal line	26
Conductor structure signal line	7x 0.16 mm
Core diameter including insulation	1 mm
External cable diameter	6.40 mm
	6.4 mm
Wire colors	White-blue, white-orange, white-green, white-brown
External sheath, color	water blue RAL 5021
Insulation resistance	≥ 5 GΩ*km
Conductor resistance	≤ 150 mΩ/m
Transmission characteristics (category)	CAT6 <sub>A</sub>
Working capacitance	42 pF
Wave impedance	100 Ω ±5% (At 100 MHz)
Signal speed	0.72 c
Signal runtime	46 ns/m
Shield attenuation	60 dB (Up to 1000 MHz)

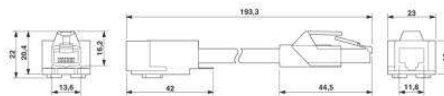
Interference suppression	90 dB (Up to 1000 MHz)
Nominal voltage, conductor	125 V
Test voltage, conductor	1000 V
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	2 cores with 2 fillers to the core
Shielding	Tinned copper braided shield
Optical shield covering	65 %
Outer sheath, material	PUR
Material conductor insulation	Cell PE
Conductor material	Bare Cu litz wires
Cable weight	44 kg/km
Smallest bending radius, fixed installation	min. 32 mm
Smallest bending radius, movable installation	min. 32 mm

### Diagrams/Drawings

#### Dimensioned drawing

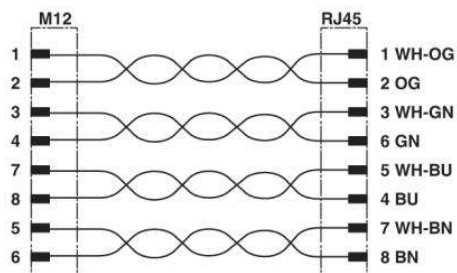


M12 x 1 male connector, straight, shielded



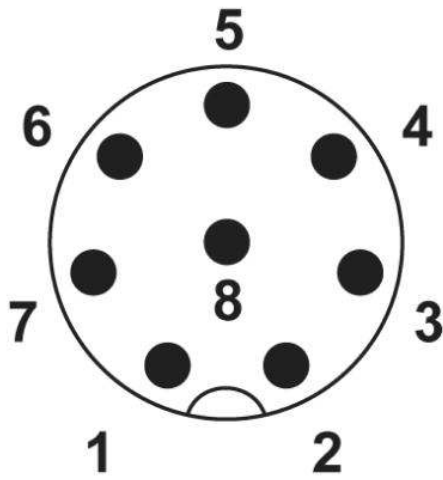
RJ45 plug connector, IP20

#### Circuit diagram

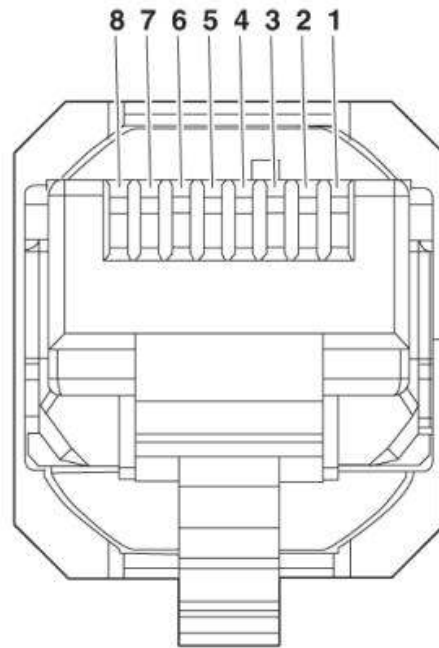


Schematic diagram

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



Connector pin assignment plug RJ45

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