


**VS-M12MS-M12MS-93E-LI/2,0**

Order No.: 1406632

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 plug on M12 plug, line, length 2 m

**Ethernet****Commercial data**

GTIN (EAN)	
sales group	D514
Pack	1 pcs.
Customs tariff	85444210
Catalog page information	Page 203 (PC-2009)

**Product notes**

WEEE/RoHS-compliant since:  
11/24/2008



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

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

Cable structure	2x2xAWG26/7; SF/UTP
Smallest bending radius, fixed installation	33.5 mm (cable, fixed installation)
Smallest bending radius, movable installation	33.5 mm (cable, flexible installation)
Length of cable	2 m
Ambient temperature (operation)	-25 °C ... 60 °C (cable, fixed installation)
	-5 °C ... 60 °C (cable, flexible installation)

#### Material data

Inflammability class acc. to UL 94	V0
Contact carrier material	PA 66
Contact material	CuSn
Contact surface material	Ni/Au
Cable gland material	Zinc die-cast, nickel-plated
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Degree of protection	IP65/IP67/IP69K

#### Electrical characteristics

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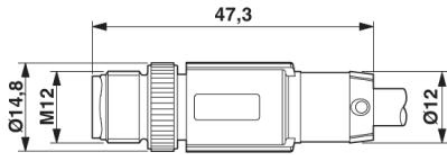
#### Line characteristics

Cable type	Ethernet
Cable structure	2x2xAWG26/7; SF/UTP
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	5.90 mm
Wire colors	white/orange-orange, white/green-green
External sheath, color	water blue RAL 5021
Insulation resistance	≥ 5 GΩ*km
Conductor resistance	≤ 284 Ω/km
Transmission characteristics (category)	CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001)
Working capacitance	48 nF (At 800 Hz)
Wave impedance	100 Ω ±15% (At 1 to 100 MHz)
Nominal voltage, conductor	125 V
Test voltage Core/Core	1000 V

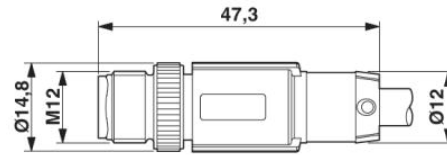
Test voltage Core/Shield	500 V
Twisted pairs	2 cores to the pair
Overall twist	Two pairs with two fillers to the core
Shielding	Plastic-coated aluminum foil, tinned copper braided shield
Optical shield covering	85 %
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires
Smallest bending radius, fixed installation	30 mm (cable, fixed installation)
Smallest bending radius, movable installation	78 mm (cable, flexible installation)

### Diagrams/Drawings

#### Dimensioned drawing

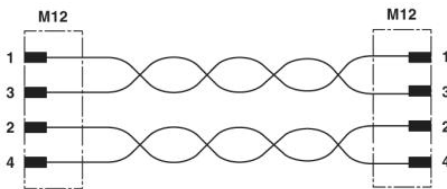


M12 x 1 male connector, straight, shielded



M12 x 1 male connector, straight, shielded

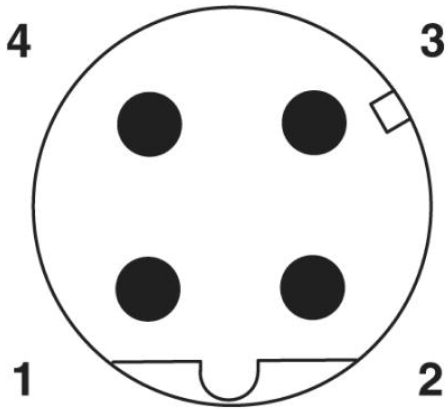
#### Circuit diagram



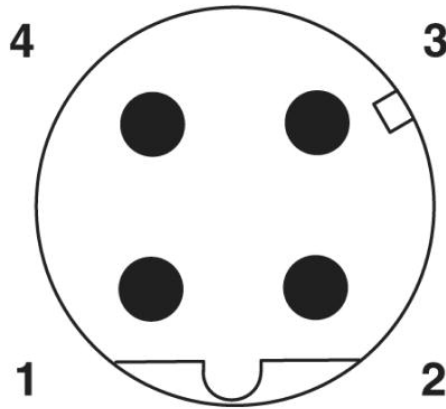
Contact assignment of M12 connector/socket

Schematic diagram

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



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

**Address**

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