

VS-M12MSS-IP20-94B/ 5,0/POE - Network cable



1402846

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Assembled Ethernet cable, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), M12 plug on RJ45 plug, SPEEDCON, length 5.0 m

Commercial data

Item number	1402846
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1CMI
GTIN	4046356633154
Weight per piece (including packing)	257 g
Weight per piece (excluding packing)	257 g
Country of origin	PL

Technical data

Product properties

Product type	Data cable preassembled
Number of positions	8
Number of slots	1
Shielded	yes

Insulation characteristics

Overvoltage category	I
Degree of pollution	1

Electrical properties

Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I_N	0.5 A
Wave impedance	100 Ω
Max. conductor resistance	150 m Ω /m

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Material specifications

Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Connector

Connection 1

Type	Plug straight M12
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Connection 2

Type	free cable end
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Cable/line

Cable length	5 m
Cable weight	44 kg/km
Cable type	Ethernet
Cable structure	4x2xAWG26/7; S/FTP
External cable diameter	6.70 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Wire diameter incl. insulation	1 mm
Cable cross section	0.14 mm ²

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Conductor material	Bare Cu litz wires
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Material wire insulation	Cell PE
Shielding	Tinned copper braided shield
Cable resistance	$\leq 150 \text{ m}\Omega/\text{m}$
Cable insulation resistance	$\geq 5 \text{ G}\Omega \cdot \text{km}$
Wave impedance	$100 \Omega \pm 5 \%$ (at 100 MHz)
Working capacitance	42 pF
Signal runtime	46 ns/m
Signal speed	0.72 c
Smallest bending radius, fixed installation	min. 33.5 mm
Smallest bending radius, movable installation	min. 33.5 mm

Environmental and real-life conditions

Ambient conditions

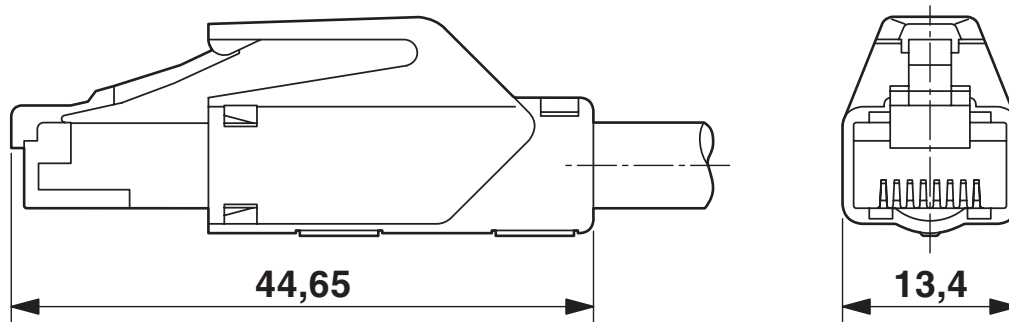
Degree of protection	IP67 (M12 connector)
	IP20 (RJ45 connector)
Ambient temperature (operation)	-20 °C ... 60 °C
	-10 °C ... 50 °C (Cable, flexible installation)
	-40 °C ... 70 °C (cable, fixed installation)

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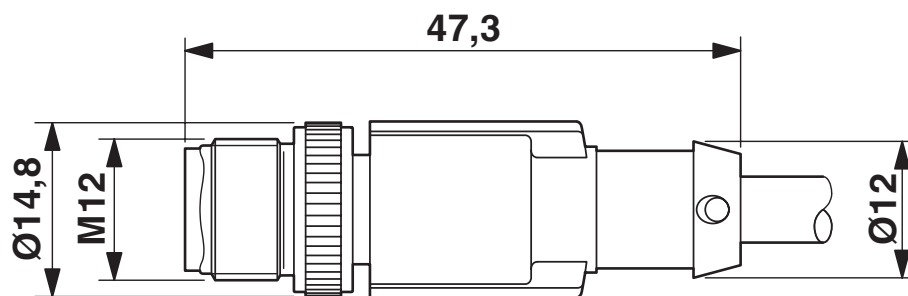
Drawings

Dimensional drawing



RJ45 connector dimensional drawing

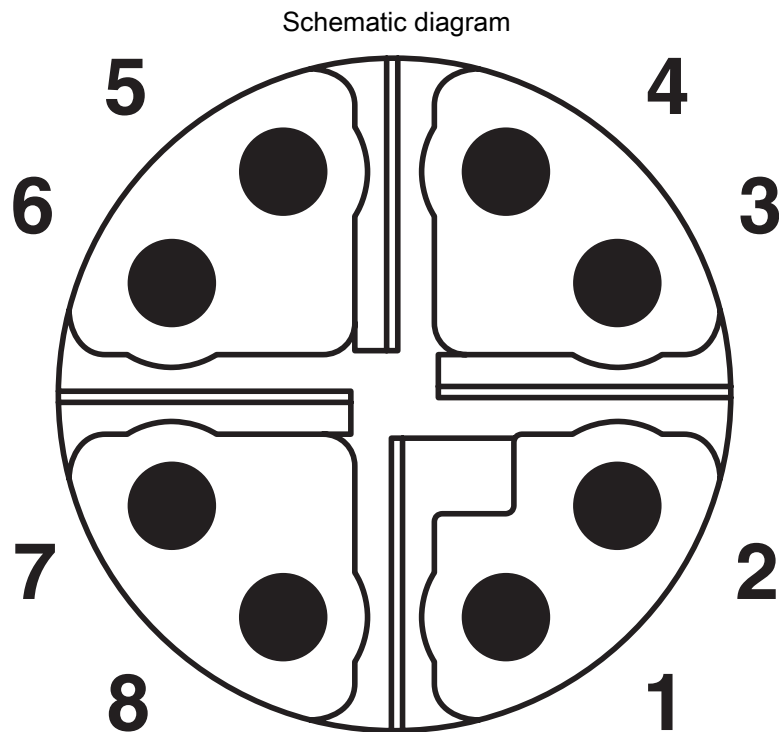
Dimensional drawing



M12 connector dimensional drawing

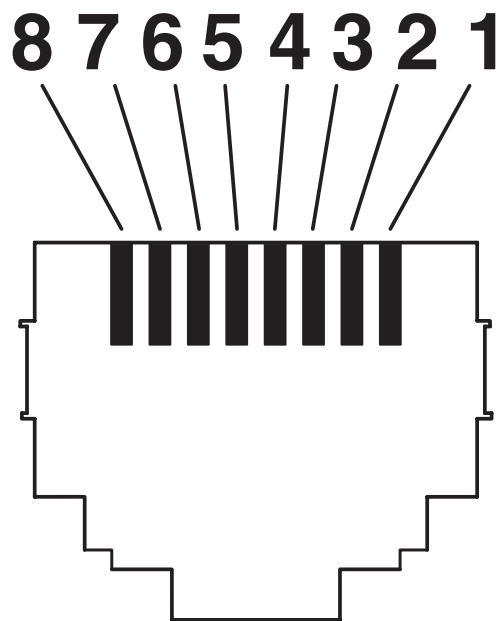
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M12 Cat6_A, 8-pos. plug pin assignment, pin side view

Schematic diagram



Connector pin assignment plug RJ45

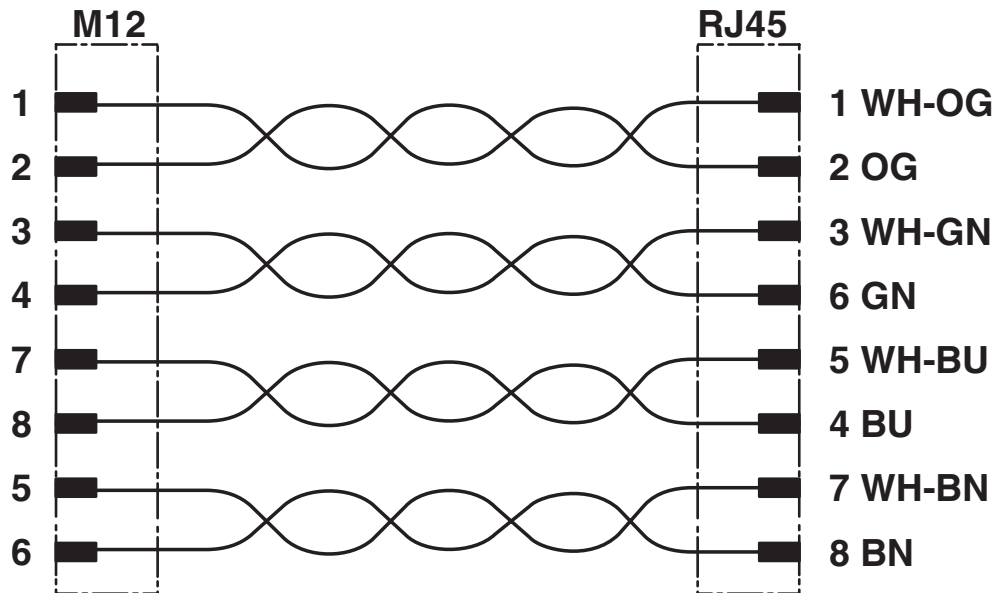
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Circuit diagram



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Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

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