


# VS-M12FSBP-IP20-93E-LI/2,0

Order No.: 1406085



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Assembled Ethernet cable, CAT5e, shielded, 2-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), M12 flush-type socket, rear/screw mounting with SPEEDCON to RJ45 male connector/IP20, line, length 2 m

Commercial data	
EAN	 4 046356 476041
sales group	D514
Pack	1 Pcs.
Customs tariff	85444210
Gross weight in pieces	0.1256 KG
Net weight per piece	0.1177 KG
Catalog page information	Page 99 (C-2-2013)

#### Product notes

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



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#### Technical data

Dimensions	
Length of cable	2 m
General data	
Number of positions	4

Signal type/category	Ethernet CAT5 (IEC 11801:2002), 100 Mbps
	Ethernet CAT5e (TIA 568B:2001), 100 Mbps

#### Characteristics head 1

Head type	Flush-type socket Straight M12 SPEEDCON
No. of positions (pin connector pattern)	4

#### Characteristics head 2

Head type	Plug Straight RJ45 / IP20
No. of positions (pin connector pattern)	4

#### Cable

Cable type	PUR ETHERNET 2x2 FLEX
Cable type (abbreviation)	93E
UL AWM style	20963 (80°C/30 V)
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps
	Ethernet CAT5e (TIA 568B), 100 Mbps
Cable structure	2x2xAWG26/7; SF/UTP
Conductor cross section	2x 2x 0.14 mm <sup>2</sup>
AWG signal line	26
Conductor structure signal line	7x 0.16 mm
Core diameter including insulation	0.98 mm
Wire colors	white/orange-orange, white/green-green
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 %
External sheath, color	water blue RAL 5021
Outer sheath thickness	1.2 mm
External cable diameter D	6.4 mm ±0.2 mm
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Tensile strength short-term/long-term	≤ 80N
Cable weight	42 kg/km
Outer sheath, material	PUR
Material conductor insulation	Foamed PE
Conductor material	Bare Cu litz wires

Insulation resistance	$\geq 500 \text{ M}\Omega \cdot \text{km}$
Conductor resistance	$\leq 290 \text{ }\Omega/\text{km}$
Cable capacity	approx. 45 nF/km (At 1 kHz)
Wave impedance	$100 \text{ }\Omega \pm 5 \text{ }\Omega$ (at 100 MHz)
Signal runtime	5.3 ns/m
Coupling resistance	$\leq 100.00 \text{ m}\Omega/\text{m}$ (At 10 MHz)
Nominal voltage, cable	$\leq 100 \text{ V}$
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700 V (50 Hz, 1 min.)
Flame resistance	According to IEC 60332-1-2
Halogen-free	According to IEC 60754-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -20 °C ... 80 °C (cable, flexible installation)
Ambient temperature (installation)	-20 °C ... 80 °C
Ambient temperature (storage/transport)	-20 °C ... 80 °C

### Certificates / Approvals

Certification

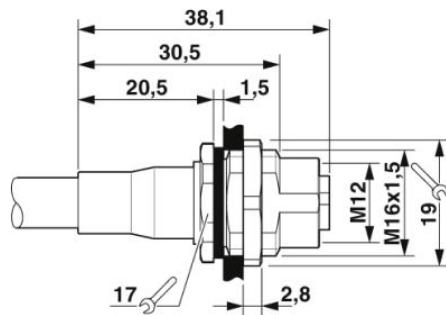
Certifications applied for:

Certification Ex:

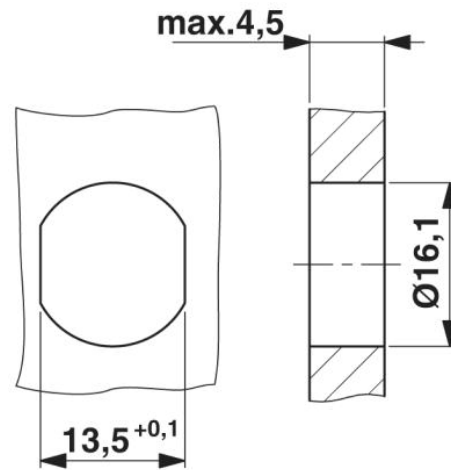
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## Drawings

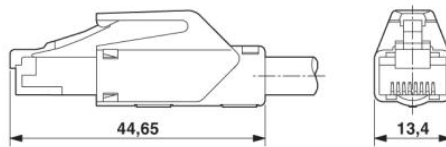
### Dimensioned drawing



M12 flush-type connector

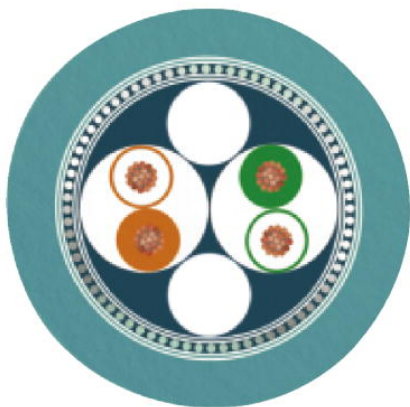


Housing cutout for M16 fastening thread,  
mounting panel with feed-through hole  
(alternatively with surface as protection  
against rotation)



### Schematic diagram

PUR ETHERNET 2x2 FLEX [93E]



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