

# VS-M12FSBPS-IP20-93E-LI/1,0 - Network cable



1404206

<https://www.phoenixcontact.com/us/products/1404206>

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Network cable, cable length: 1 m, number of positions: 4, CAT5, cable outlet: straight, Ethernet



## Commercial data

Item number	1404206
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB18
Product key	ABNPAB
GTIN	4046356681483
Weight per piece (including packing)	77.3 g
Weight per piece (excluding packing)	172.793 g
Customs tariff number	85444290
Country of origin	PL

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## Technical data

### Mounting

Mounting type	Screw mounting
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### Product properties

Type	M12
Product type	Circular connectors (device side)
Sensor type	Ethernet
Number of positions	4
No. of cable outlets	1
Shielded	yes
Cable outlet	straight

### Material specifications

Flammability rating according to UL 94	V2
Seal material, flat gasket	FKM / FPM
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

### Electrical properties

Nominal current $I_N$	2 A
Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Transmission speed	100 Mbps

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	≥ 100
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### Connector

#### Connection 1

Type	Flush-type female connector straight M12
Locking type	SPEEDCON
Degree of protection	IP65/IP67

#### Connection 2

Type	Plug straight RJ45
Degree of protection	IP20

### Cable/line

Cable length	1.00 m
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Ethernet [93E]

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Shielded	yes
Cable weight	42 kg/km
Cable type	Ethernet
Cable type (abbreviation)	93E
Signal type/category	Ethernet CAT5 (IEC 11801:2002)
Cable structure	2x2xAWG26/7 PIMF
External cable diameter	6.70 mm
Outer sheath, material	PUR
External sheath, color	water blue RAL 5021
Conductor material	Bare Cu litz wires
Conductor structure signal line	7x 0.15 mm
AWG signal line	26
Conductor cross section	2x 2x 0.14 mm <sup>2</sup>
Material wire insulation	Cell PE
Wire diameter incl. insulation	≤ 1.05 mm
Single wire, color	white/orange-orange, white/green-green
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
Nominal voltage, cable	max. 125 V
Test voltage, cable	1000 V
Cable resistance	≤ 150 Ω/km
Cable insulation resistance	≥ 5 GΩ*km
Coupling resistance	5.00 mΩ/m (at 10 MHz)
Wave impedance	100 Ω ±5 % (at 100 MHz)
Working capacitance	42 pF
Signal speed	0.72 c
Tensile strength	30 N (for installation)
	10 N (in accordance with installation)
Smallest bending radius, movable installation	34 mm
Shield attenuation	60.00 dB (up to 1000 MHz)
Halogen-free	complying with IEC 60754-1/2
Resistance to oil	in accordance with DIN EN 60811-2-1
Concentration of fumes	in accordance with IEC 61034-1/2
Flame resistance	complying with IEC 60332-2-2
Other resistance	Microbe resistance as per VDE 0282 section 10
	Hydrolysis resistance as per DIN 53504
Special properties	Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-10 °C ... 50 °C (Cable, flexible installation)
	-40 °C ... 70 °C (cable, fixed installation)

Environmental and real-life conditions

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## Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C (cable, fixed installation)
	-5 °C ... 60 °C (Cable, flexible installation)

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## Classifications

### ECLASS

ECLASS-11.0	27060308
ECLASS-12.0	27060308
ECLASS-13.0	27060307

### ETIM

ETIM 9.0	EC002599
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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