

VS-M12FSBPS-IP20-93B/0,5 - Cable



1404367

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Cable, degree of protection: IP20, cable length: 0.5 m, number of positions: 4, CAT5, material: CuZn/PA, PROFINET

Commercial data

Item number	1404367
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB18
Product key	ABNPAB
GTIN	4046356692366
Weight per piece (including packing)	72.1 g
Weight per piece (excluding packing)	68.2 g
Customs tariff number	85444290
Country of origin	PL

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Technical data

Notes

General	This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 10.1 Cord Sets for Balanced Cabling
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Mounting

Mounting type	Screw mounting
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Product properties

Type	M12
Product type	Circular connectors (device side)
Sensor type	PROFINET
Number of positions	4
Shielded	yes

Insulation characteristics

Overvoltage category	I
Degree of pollution	1

Material specifications

Flammability rating according to UL 94	V2
Seal material, flat gasket	FKM / FPM
Housing material	CuZn/PA
Outer sheath, material	PVC
Conductor material	Tin-plated Cu litz wires

Electrical properties

Rated voltage (III/2)	50 V
Rated voltage (III/3)	50 V
Nominal voltage U_N	48 V
Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Transmission speed	100 Mbps
Wave impedance	100 Ω
Max. conductor resistance	120 Ω /km

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Connector

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Connection 1

Type	Flush-type female connector straight M12
Degree of protection	IP67


Connection 2

Type	Plug straight RJ45
Degree of protection	IP20

Cable/line

Cable length	0.50 m
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PROFINET PVC stranded CAT5 [93B]

Dimensional drawing	
Shielded	yes
UL AWM Style	21694
Cable weight	67 kg/km
Cable type	PROFINET PVC stranded CAT5
Short symbol	2YY(ST)CY
Cable type (abbreviation)	93B
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps EtherCAT [®] CAT5 (IEC 11801), 100 Mbps
Cable structure	1x4xAWG22/7, SF/TQ
External cable diameter	6.50 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	green RAL 6018
Thickness, outer sheath	approx. 0.90 mm
Material, inner sheath	PVC
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.25 mm
AWG signal line	22
Conductor cross section	4x 0.34 mm ²
Material wire insulation	PE
Wire diameter incl. insulation	1.55 mm
Single wire, color	white, yellow, blue, orange
Overall twist	Star quad
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	85 %

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Nominal voltage, cable	600 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Cable insulation resistance	≥ 500 MΩ*km
Coupling resistance	≤ 20.00 mΩ/m (at 10 MHz)
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Loop resistance	≤ 120.00 Ω/km
Signal runtime	5.3 ns/m
Signal speed	0.66 c
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	7 x D
Near end crosstalk attenuation (NEXT)	80 dB (with 1 MHz)
	76 dB (at 4 MHz)
	70 dB (at 10 MHz)
	65 dB (at 16 MHz)
	63 dB (at 20 MHz)
	60 dB (at 31.25 MHz)
	55 dB (at 62.5 MHz)
50 dB (at 100 MHz)	
Resistance to oil	Resistant to oil to a limited extent
Flame resistance	according to UL 1685 (CSA FT 4)
Other resistance	UV resistant (According to UL 1581, Section 1200)
Ambient temperature (operation)	-40 °C ... 70 °C (Cable, flexible installation)
	-40 °C ... 70 °C (cable, fixed installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
	IP20
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-5 °C ... 50 °C (Cable, flexible installation)
	Plug / socket

Standards and regulations

Flame resistance	according to UL 1685 (CSA FT 4)
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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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