

# VS-M12FSBPS-IP20-93B/0,5 - Network cable



1404367

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Network cable, PROFINET CAT5 (100 Mbps), 4-position, PVC/PVC, green RAL 6018, Flush-type female connector straight M12, coding: D / IP67, on Plug straight RJ45 / IP20, cable length: 0.5 m

## 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)	70.5 g
Weight per piece (excluding packing)	63.646 g
Customs tariff number	85444290
Country of origin	PL

## 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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### Product properties

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
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 speed	100 Mbps
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Wave impedance	100 $\Omega$
Max. conductor resistance	120 $\Omega$ /km

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	$\geq 100$
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### Connector

#### Connection 1

Type	Flush-type female connector straight M12 / IP67
Number of positions	4
Coding type	D
Degree of protection	IP67

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## Connection 2

Type	Plug straight RJ45 / IP20
Number of positions	4
Degree of protection	IP20

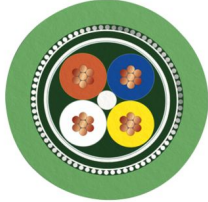
## Connector specifications (second page)

Housing material	Plastic
Type of locking	Locking clips
Degree of protection	IP20
No. of pos.	RJ45
Contact switching type	Pin
Insertion/withdrawal cycles	≥ 1000
Contact resistance	< 20 mΩ (Contact) < 100 mΩ (shield)
Ambient temperature (operation)	-20 °C ... 70 °C

## Cable/line

Cable length	0.5 m
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## PROFINET PVC stranded CAT5 [93B]

Dimensional drawing	
UL AWM Style	21695 (80 °C / 600 V)
Number of positions	4
Shielded	yes
Cable type	PROFINET PVC stranded CAT5 [93B]
Conductor structure	1x4xAWG22/7, SF/TQ
AWG signal line	22
Conductor cross-section	4x 0.34 mm <sup>2</sup>
Wire diameter incl. insulation	1.5 mm ±0.1 mm
External cable diameter	6.50 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	green RAL 6018
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PE
Single wire, color	white, yellow, blue, orange
Overall twist	Star quad
Optical shield covering	85 %

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Insulation resistance	≥ 5 GΩ*km
Loop resistance	≤ 120.00 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
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))
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Flame resistance	UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1) UL 1685 (CSA FT 4) UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)
Resistance to oil	OIL RES I according to UL 2256
Other resistance	UV resistant (according to UL 1581, Section 1200)
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -10 °C ... 70 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

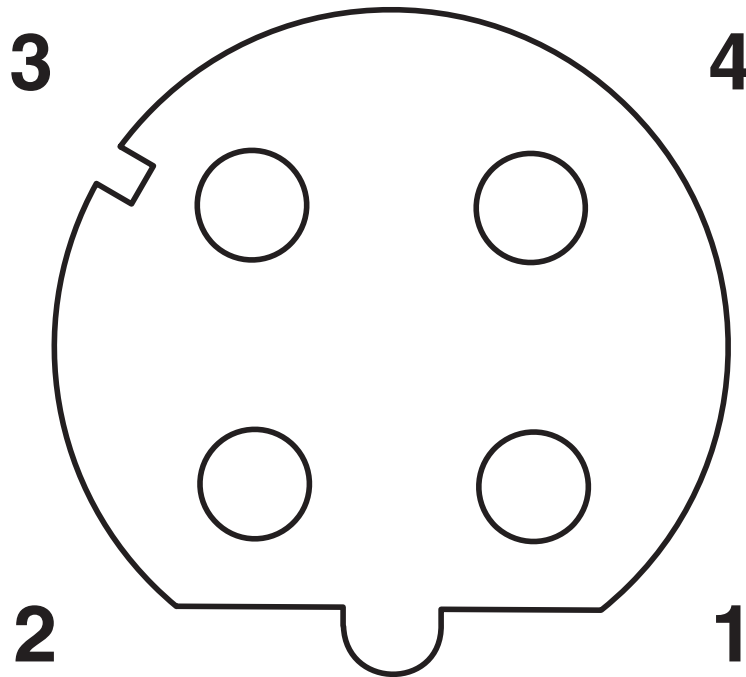
Degree of protection	IP20 IP67/IP20
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation) -5 °C ... 50 °C (Cable, flexible installation) Plug / socket
Resistance to oil	limited oil resistance

## Standards and regulations

Flame resistance	according to UL 1685 (CSA FT 4)
Resistance to oil	limited oil resistance
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-101

## Drawings

Schematic diagram



Pin assignment M12 socket, 4-pos., D-coded, female side

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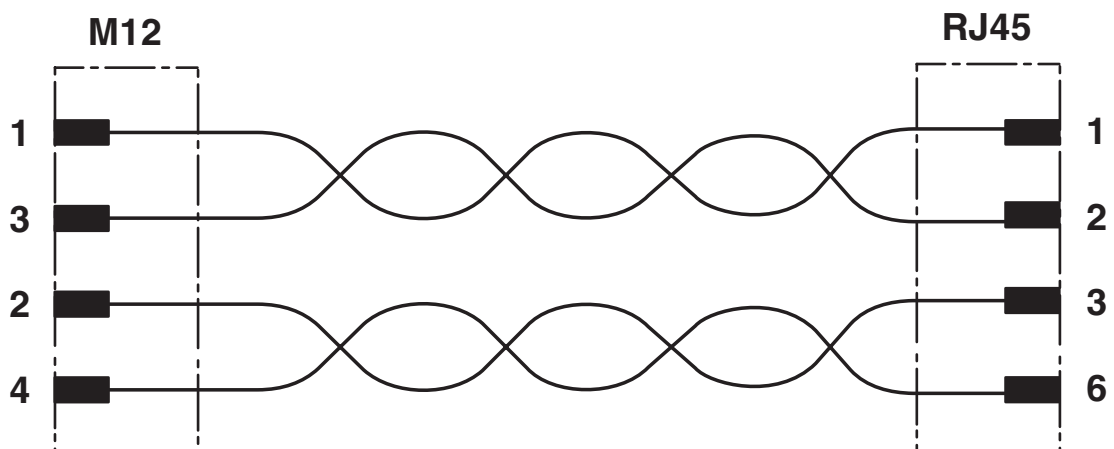
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Schematic diagram



Connector pin assignment plug RJ45

Circuit diagram



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## Approvals

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**EAC**

Approval ID: 19060508

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## Classifications

### ECLASS

ECLASS-13.0	27440103
ECLASS-15.0	27060307

### ETIM

ETIM 10.0	EC001855
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)
SCIP	e212201e-147b-4789-b353-d53998e725ab

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