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## Cable - VS-M12FSBPS-IP20-93B/0,5 - 1404367


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Assembled PROFINET cable, type B, CAT5e, shielded, star quad, AWG 22 stranded (7-wire), RAL 6018 (yellow-green), panel feed-through, M12, 4 pos., D-coded on RJ45 connector, length: 0.5 m



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 692366
GTIN	4046356692366
Sales Key	ABNAEG

### Technical data

#### Dimensions

Length of cable	0.5 m
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#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)

#### General data

Note	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
Rated voltage	50 V
Number of positions	4
Signal type/category	PROFINET CAT5 (IEC 11801:2002)
Overvoltage category	I
Degree of pollution	1
	1
Alternative short product description	PROFINET cable
Rated voltage (III/3)	50 V

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## Cable - VS-M12FSBPS-IP20-93B/0,5 - 1404367

### Technical data

#### Characteristics head 1

Head type	Flush-type socket straight M12 / IP67
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	PROFINET PVC stranded CAT5
Cable type (abbreviation)	93B
UL AWM style	21694
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps
Cable structure	1x4xAWG22/7; SF/TQ
Conductor cross section	4x 0.34 mm <sup>2</sup>
AWG signal line	22
Conductor structure signal line	7x 0.25 mm
Core diameter including insulation	1.55 mm
Wire colors	White, yellow, blue, orange
Overall twist	Star quad
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	85 %
External sheath, color	green RAL 6018
Outer sheath thickness	approx. 0.9 mm
External cable diameter D	6.5 mm ±0.2 mm
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	7 x D
Cable weight	67 kg/km
Outer sheath, material	PVC
Material, inner sheath	PVC
Material conductor insulation	PE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ 500 MΩ*km
Loop resistance	≤ 120 Ω (per km)
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Signal speed	0.66 c
Signal runtime	5.3 ns/m
Coupling resistance	≤ 20.00 mΩ/m (At 10 MHz)
Nominal voltage, cable	600 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000 V (50 Hz, 1 min.)
Flame resistance	According to UL 1685 (CSA FT 4)
Resistance to oil	Resistant to oil to a limited extent

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# Cable - VS-M12FSBPS-IP20-93B/0,5 - 1404367

## Technical data

### Cable

Other resistance	UV resistant According to UL 1581, Section 1200
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-40 °C ... 70 °C (cable, flexible installation)
Ambient temperature (installation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-50 °C ... 70 °C

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Approvals

### Approvals

Approvals

EAC

Ex Approvals

### Approval details

EAC		B.00767
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