

Conductor - VS-M12FSBPS-IP20-93B/1,0 - 1404368

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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: 1 m



Key commercial data

Packing unit	1 PCE
GTIN	 4 046356 692373
Custom tariff number	85444290
Country of origin	POLAND

Technical data

Mechanical characteristics

Number of positions	4
Shielded	Yes
Cable diameter	6.50 mm
Cable structure	1x4xAWG22/7; SF-UTP
Smallest bending radius, fixed installation	52 mm
Smallest bending radius, movable installation	52 mm
Length of cable	1 m
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-5 °C ... 50 °C (cable, flexible installation)
	(Plug / socket)

Ambient conditions

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

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Technical data

Ambient conditions

Degree of protection	IP20
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Material data

Housing material	CuZn/PA
Outer sheath, material	PVC
External sheath, color	green-yellow RAL 6018

Electrical characteristics

Rated voltage (III/3)	50 V
Transmission characteristics (category)	CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001)

Line characteristics

Cable type	PROFINET PVC stranded CAT5e
UL AWM style	21694
Cable structure	1x4xAWG22/7; SF/TQ
Conductor cross section	4x 0.34 mm ²
AWG signal line	22
Conductor structure signal line	7x 0.25 mm
Core diameter including insulation	approx. 1.5 mm
External cable diameter	6.5 mm ± 0.2 mm
Wire colors	White, yellow, blue, orange
External sheath, color	Green RAL 6018
Transmission medium	Copper
Insulation resistance	≥ 500 MΩ*km
Conductor resistance	≤ 120 Ω/km
Transmission characteristics (category)	CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001)
Working capacitance	52 pF
Wave impedance	100 Ω ± 15 Ω (At 100 MHz)
Signal runtime	5.3 ns/m
Coupling resistance	≤ 20.00 mΩ/m
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.)
Overall twist	Star quad
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	85 %
Outer sheath, material	PVC
Material, inner sheath	PVC
Material conductor insulation	PE

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Technical data

Line characteristics

Conductor material	Tin-plated Cu litz wires
Cable weight	67 kg/km
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	7 x D
Torsion force	± 180 °/m (30,000 torsion cycles)
Flame resistance	According to UL 1685 (CSA FT 4)
Resistance to oil	Resistant to oil to a limited extent
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)

Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27060307
eCl@ss 6.0	27060390
eCl@ss 7.0	27060390
eCl@ss 8.0	27060390

ETIM

ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 5.0	EC000830

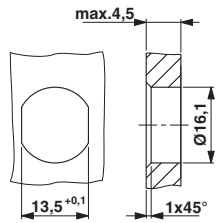
UNSPSC

UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	31261501
UNSPSC 13.2	26121616

Drawings

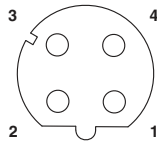
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Dimensioned drawing



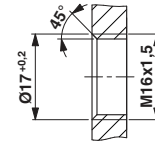
Mounting panel with feed-through hole

Schematic diagram



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

Dimensioned drawing



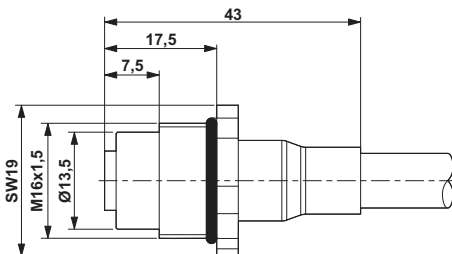
Mounting panel with thread

Cable cross section



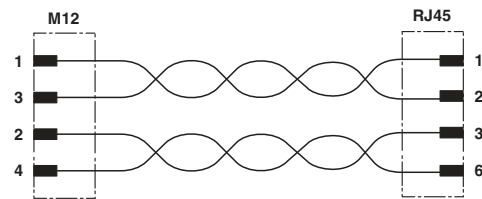
PROFINET [93B]

Dimensioned drawing



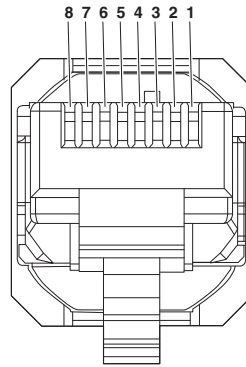
M12 flush-type connector

Circuit diagram



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Schematic diagram



Connector pin assignment plug RJ45