

Network cable - VS-MSD-MSD-93B-LI/20,0 - 1404307


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Assembled PROFINET cable, CAT5e, shielded, star-quad, 22 AWG stranded (7-wire), RAL 6018 (yellow-green), M12 plug to M12 plug, line, length 20 m



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 690133
GTIN	4046356690133

Technical data

Mechanical characteristics

Number of positions	4
Insertion/withdrawal cycles	≥ 100
Length of cable	20 m
Degree of protection	IP65/IP67/IP69K
No. of cable outlets	1

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C (cable, fixed installation)
	-5 °C ... 50 °C (cable, flexible installation)

Material data

Flammability rating according to UL 94	V0
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Electrical characteristics

Transmission characteristics (category)	CAT5 (IEC 11801:2002)
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Standards and Regulations

Flammability rating according to UL 94	V0
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Line characteristics

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Technical data

Line characteristics

Cable type	PROFINET PVC stranded CAT5	
Cable abbreviation	2YY(ST)CY	
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	1.55 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	
Wave impedance	100 Ω ±15 Ω (at 100 MHz)	
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)	
	Wave attenuation	2.1 dB (with 1 MHz)
		4 dB (at 4 MHz)
6.3 dB (at 10 MHz)		
8 dB (at 16 MHz)		
9 dB (at 20 MHz)		
11.4 dB (at 31.25 MHz)		
16.5 dB (at 62.5 MHz)		
21.3 dB (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.)	
Overall twist	Star quad	
Shielding	Aluminum-coated foil, tinned copper braided shield	
Optical shield covering	85 %	
Outer sheath, material	PVC	

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Technical data

Line characteristics

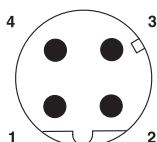
Material, inner sheath	PVC
Material conductor insulation	PE
Conductor material	Tin-plated Cu litz wires
Cable weight	67 kg/km
Minimum bending radius, fixed installation	3 x D
Minimum bending radius, flexible installation	7 x D
Flame resistance	According to UL 1685 (CSA FT 4)
Resistance to oil	Resistant 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)

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Schematic diagram



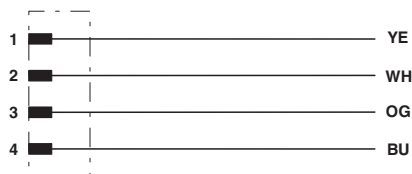
Pin assignment M12 male connector, 4-pos., D-coded, male side

Cable cross section



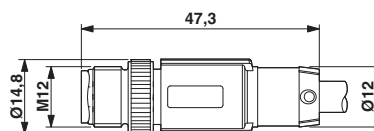
PROFINET PVC stranded CAT5 [93B]

Circuit diagram



Contact assignment of the M12 connector

Dimensional drawing



Plug, M12 x 1, straight, shielded

Approvals

Approvals

Network cable - VS-MSD-MSD-93B-LI/20,0 - 1404307


Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC		EAC-Zulassung
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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

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