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Contact us

Network cable - VS-M12MS-IP20-93C-LI/2,0 - 1416188

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Assembled PROFINET cable, CAT5e, shielded, star quad, AWG 22 flexible cable conduit capable (7-wire), RAL 6018 (yellow-green), M12 plug on RJ45 plug/IP20, line, length 2 m

Key commercial data

Packing unit	1 1
Custom tariff number	85444210
Country of origin	Poland

Technical data

Mechanical characteristics

Number of positions	4
Shielded	Yes
Insertion/withdrawal cycles	≥ 100
Cable diameter	6.50 mm
Cable exit	Straight
Cable structure	1x4xAWG22/7; SF/TQ
Length of cable	2 m

Ambient conditions

Ambient temperature (operation)	-10 °C ... 60 °C (cable, fixed installation)
	-10 °C ... 60 °C (cable, flexible installation)

Material data

Inflammability class according to UL 94	V0
Outer sheath, material	PUR
External sheath, color	Green RAL 6018

Electrical characteristics

Network cable - VS-M12MS-IP20-93C-LI/2,0 - 1416188

Technical data

Electrical characteristics

Transmission characteristics (category)	CAT5 (IEC 11801:2002), CAT5e (TIA 568B:2001)

Line characteristics

Cable type	PROFINET drag chain CAT5e
Cable structure	1x4xAWG22/7; SF/TQ
Conductor cross section	4x 0.34 mm²
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 1- 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	PUR
Material, inner sheath	FRNC
Material conductor insulation	PE
Conductor material	Tin-plated Cu litz wires
Cable weight	61 kg/km
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	7.5 x D
Max. bending cycles	3000000
Bending radius	200 mm
Traversing path	10 m
Traversing rate	4 m/s
Acceleration	4 m/s²

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Technical data

Line characteristics

Tensile strength short-term/long-term	≤ 150 N
Flame resistance	According to IEC 60332-1-2
Halogen-free	The cable is halogen-free
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	UV resistant
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	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27061801

ETIM

ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 5.0	EC000830

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	31261501

Drawings

Network cable - VS-M12MS-IP20-93C-LI/2,0 - 1416188

Dimensioned drawing

Dimensioned drawing

max. 59

16,05

14

14,6
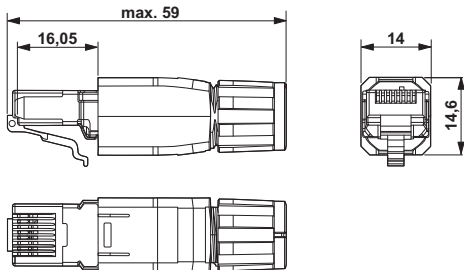
RJ45 connector, IP20

47,3

Ø14,8

M12

Ø12
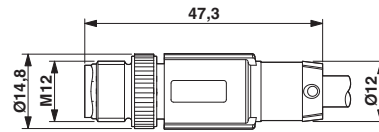
Plug, M12 x 1, straight, shielded