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Network cable - VS-PPC/PL-IP20-93C-LI/5,0 - 1416195

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Assembled PROFINET cable, CAT5e, shielded, star quad, AWG 22 flexible cable conduit capable (7-wire), RAL 6018 (yellow-green), RJ45 plug/IP67 push-pull plastic housing on RJ45 plug/IP20, line, length 5 m

Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 474696

Technical data

Dimensions

Length of cable	5 m
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Ambient conditions

Degree of protection	IP20
	IP67

General data

Number of positions	4
Signal type/category	PROFINET CAT5 (IEC 11801:2002)
Overvoltage category	1
Degree of pollution	2

Characteristics head 1

Head type	Plug straight RJ45 Push Pull / IP67
No. of positions (pin connector pattern)	4
Material (component)	Plastic

Characteristics head 2

Head type	Plug straight RJ45 / IP20
No. of positions (pin connector pattern)	4
Material (component)	Plastic

Standards and Regulations

Flammability rating according to UL 94	V0
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Cable

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Technical data

Cable

Cable type	PROFINET drag chain CAT5
Cable type (abbreviation)	93C
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps
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	1.5 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	5 x D
Minimum bending radius, flexible installation	7.5 x D
Number of bending cycles	3000000
Bending radius	100 mm
Traversing path	10 m
Traversing rate	4 m/s
Acceleration	4 m/s ²
Torsion force	± 30 °/m
Tensile strength short-term/long-term	≤ 150 N
Cable weight	61 kg/km
Outer sheath, material	PUR
Material, inner sheath	FRNC
Material conductor insulation	PE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ 500 MΩ*km
Conductor resistance	≤ 120 Ω/km
Wave impedance	100 Ω ±15 Ω (at 1 ... 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 IEC 60332-1-2
Resistance to oil	in accordance with DIN EN 60811-2-1

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Technical data

Cable

Other resistance	UV resistant
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

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	27060308

ETIM

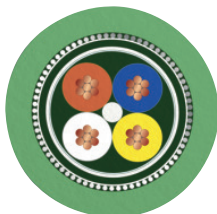
ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 5.0	EC002599

UNSPSC

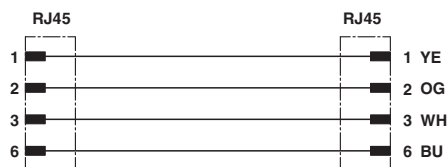
UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	31261501
UNSPSC 13.2	26121616

Drawings

Cable cross section



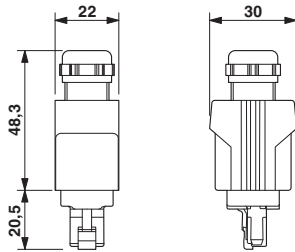
Circuit diagram



PROFINET drag chain CAT5 [93C]

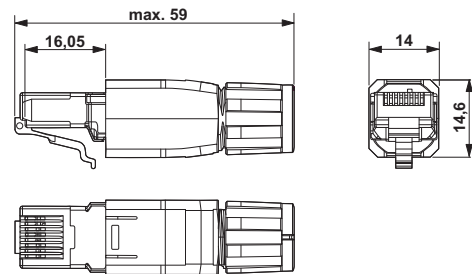
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Dimensional drawing



Push-pull RJ45 connector IP65/67

Dimensional drawing



RJ45 connector, IP20

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