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## Network cable - VS-PPC/ME-IP20-93R-LI/5,0 - 1416246

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Assembled PROFINET cable, CAT5e, shielded, star quad, AWG 22 stranded (19-wire), RAL 6018 (yellow green), RJ45 male connector/IP67 push-pull metal housing on RJ45 male connector/IP20, line, length: 5 m



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 473392

### Technical data

#### Dimensions

Length of cable	2 m
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#### General data

Number of positions	4
Signal type/category	PROFINET CAT5 (IEC 11801:2002)

#### Characteristics head 1

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

#### Characteristics head 2

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

#### Cable

Cable type	PROFINET robot CAT5
Cable type (abbreviation)	93R
UL AWM style	20233 (80°C/300 V)
Cable structure	1x4xAWG22/19; S/TQ
Conductor cross section	4x 0.34 mm <sup>2</sup>

## Network cable - VS-PPC/ME-IP20-93R-LI/5,0 - 1416246

### Technical data

#### Cable

AWG signal line	22
Conductor structure signal line	19x 0.15 mm
Core diameter including insulation	1.5 mm
Wire colors	White, yellow, blue, orange
Overall twist	Star quad
Shielding	Tinned copper braided shield
Optical shield covering	85 %
External sheath, color	green RAL 6018
Outer sheath thickness	approx. 1 mm
External cable diameter D	6.5 mm ±0.2 mm
Minimum bending radius, fixed installation	5 x D
Torsion force	± 180 °/m (1,000,000 torsion cycles)
Cable weight	55 kg/km
Outer sheath, material	PUR
Material conductor insulation	Foamed PE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ 500 MΩ*km
Conductor resistance	≤ 120 Ω/km
Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Signal runtime	4.8 ns/m
Nominal voltage, cable	300 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
Halogen-free	According to IEC 60754-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	UV resistant According to UL 1581, Section 1200
Ambient temperature (operation)	-40 °C ... 80 °C
	-40 °C ... 80 °C
Ambient temperature (installation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °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	27060390

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## Classifications

### eCl@ss

eCl@ss 7.0	27060390
eCl@ss 8.0	27060308

### ETIM

ETIM 4.0	EC002599
ETIM 5.0	EC002599

### UNSPSC

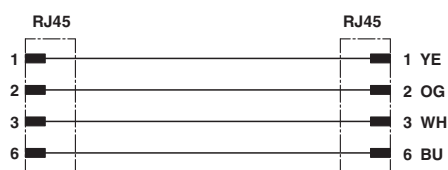
UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	31261501
UNSPSC 13.2	26121616

## Drawings

Cable cross section

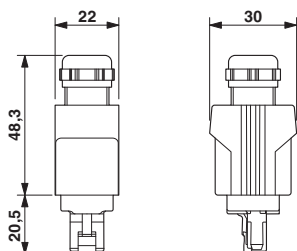


Circuit diagram

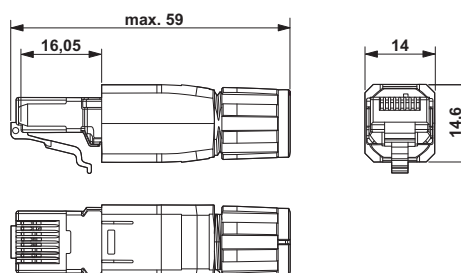


PROFINET robot CAT5 [93R]

Dimensional drawing



Dimensional drawing



Push-pull RJ45 connector IP65/67

RJ45 connector, IP20

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