

## Network cable - VS-FSDBPS-IP20-937-2,0 - 1402765

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Assembled PROFINET cable, CAT5e, shielded, star quad, AWG 22 (7-wire), black, M12 flush-type socket, rear/screw mounting with M16 thread on RJ45 plug/IP20, length 2 m



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 631389
GTIN	4046356631389
Weight per Piece (excluding packing)	166.700 g
Custom tariff number	85444210
Country of origin	Poland

### Technical data

#### Mechanical characteristics

Number of positions	4
Shielded	yes
Insertion/withdrawal cycles	≥ 100
Cable diameter	7.25 mm
Cable outlet	straight
Cable structure	1x4xAWG22/7; SF/TQ
No. of cable outlets	1

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C (Plug / socket)
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#### Material data

Outer sheath, material	PE-X
External sheath, color	black RAL 9005

#### Electrical characteristics

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## Technical data

### Electrical characteristics

Transmission characteristics (category)	CAT5 (IEC 11801:2002)
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### Line characteristics

Cable type	PROFINET railway applications
Cable structure	1x4xAWG22/7; SF/TQ
Conductor cross section	4x 0.34 mm <sup>2</sup>
AWG signal line	22
Conductor structure signal line	7x 0.25 mm
Core diameter including insulation	approx. 1.5 mm
External cable diameter	6.6 mm ±0.4 mm
Wire colors	white-blue, orange-yellow
External sheath, color	black RAL 9005
Transmission medium	Copper
Conductor resistance	≤ 54.4 Ω/km
Working capacitance	≤ 65 pF (core-core) ≤ 100 pF (core-shield)
Wave impedance	100 Ω ±5 Ω (f = 100 MHz)
Near end crosstalk attenuation (NEXT)	73 dB (with 1 MHz) 70 dB (at 4 MHz) 65 dB (at 10 MHz) 57 dB (at 31.5 MHz) 52 dB (at 62.5 MHz) 48 dB (at 100 MHz)
Wave attenuation	2 dB (with 1 MHz) 4.4 dB (at 4 MHz) 7.4 dB (at 10 MHz) 14 dB (at 31.5 MHz) 20 dB (at 62.5 MHz) 26 dB (at 100 MHz)
Return Loss	25 dB (at 4 MHz) 30 dB (at 10 MHz) 30 dB (at 31.5 MHz) 30 dB (at 62.5 MHz) 28 dB (at 100 MHz)
Signal speed	75 c
Shield attenuation	40 dB (30 MHz ≤ f ≤ 100 MHz)
Coupling resistance	200.00 mΩ/m (f ≤ 30 MHz)
Nominal voltage, cable	300 V AC
Test voltage, cable	2000 V AC (50 Hz, 5 minutes)
Overall twist	Star quad
Shielding	Plastic-coated aluminum foil, tinned copper braided shield

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## Technical data

### Line characteristics

Outer sheath, material	PE-X
Material conductor insulation	Foamed PE
Conductor material	silver-plated Cu litz wires
Cable weight	70 kg/km
Minimum bending radius, fixed installation	6 x D
Flame resistance	EN 60332-1-2
	EN 50266
	EN 60332-3-25
	NF C32-070, 2.1
	NF C32-070, 2.2
	UL 1685, 12 (FT4)
	in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)
Halogen-free	According to EN 50267-2-1
Resistance to oil	according to IRM 902, 72 h at 100 °C
Other resistance	Resistance to fuels according to IRM 903, 168 h at 70 °C
Ambient temperature (operation)	-50 °C ... 90 °C (cable, fixed installation)
	-40 °C ... 90 °C (cable, flexible installation)

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

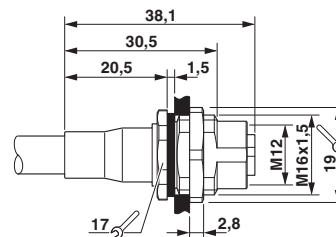
## Drawings

Cable cross section



PROFINET railway applications [937]

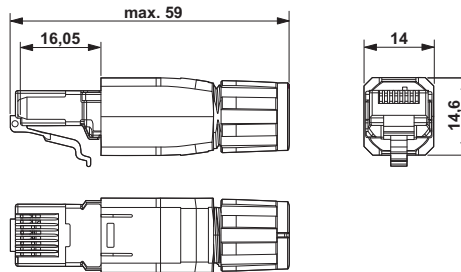
Dimensional drawing



Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

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Dimensional drawing



RJ45 connector, IP20

## Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27060306
eCl@ss 5.0	27260701
eCl@ss 5.1	19030300
eCl@ss 6.0	27061800
eCl@ss 7.0	27060308
eCl@ss 8.0	27060308
eCl@ss 9.0	27060308

ETIM

ETIM 4.0	EC000830
ETIM 5.0	EC002599

UNSPSC

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

## Approvals

Approvals

Approvals

EAC

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### Approvals

Ex Approvals

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#### Approval details

EAC		B.00767
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