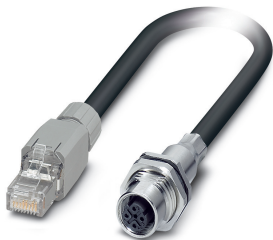


## Network cable - VS-FSDBPS-IP20-937-2,0 - 1402765


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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
GTIN	 4 046356 631389
GTIN	4046356631389
Custom tariff number	85444210

### Technical data

#### Mechanical characteristics

Overvoltage category	I
Degree of pollution	3
Cable outlet	straight
No. of cable outlets	1
Weight	166.7 g
Flammability rating according to UL 94	V2

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C (Plug / socket)
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#### Standards and Regulations

Flammability rating according to UL 94	V2
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#### Line characteristics

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

## Technical data

### Line characteristics

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

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

### Technical data

#### Line characteristics

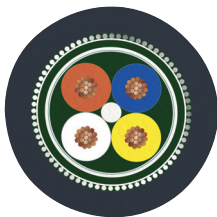
Outer sheath, material	PE-X
Material conductor insulation	Foamed PE
Conductor material	silver-plated Cu litz wires
Cable weight	70 kg/km
Minimum bending radius, fixed installation	6 x D
Flame resistance	EN 60332-1-2
	EN 50266
	EN 60332-3-25
	NF C32-070, 2.1
	NF C32-070, 2.2
	UL 1685, 12 (FT4)
	in accordance 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 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

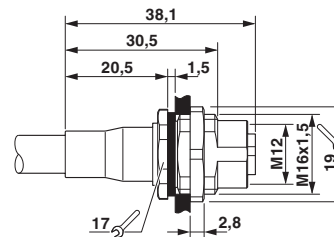
### Drawings

Cable cross section



PROFINET RADOX® railway application  
CAT5 [937]

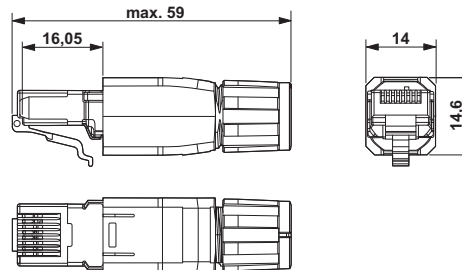
Dimensional drawing



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

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

Dimensional drawing



RJ45 connector, IP20

### Classifications

eCl@ss

eCl@ss 10.0.1	27060308
eCl@ss 11.0	27060308
eCl@ss 4.0	24010400
eCl@ss 4.1	24010400
eCl@ss 5.0	19030300
eCl@ss 5.1	19030300
eCl@ss 6.0	27061800
eCl@ss 7.0	27060308
eCl@ss 9.0	27060308

ETIM

ETIM 4.0	EC000830
ETIM 6.0	EC001262
ETIM 7.0	EC001262

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	26121604
UNSPSC 18.0	26121604
UNSPSC 19.0	26121604
UNSPSC 20.0	26121604

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

### Classifications

#### UNSPSC

UNSPSC 21.0	26121604
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### Approvals

#### Approvals

#### Approvals

#### EAC

#### Ex Approvals

### Approval details

EAC		19060508
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