


## Bus system cable - NBC-380,0-936 - 1413310

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Cable ring, bus system cable, PROFINET, 4-wire, shielded, RADOX® GKW S, black RAL 9005, 4 x 0.34, cable length: 380 m



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 995894
GTIN	4046356995894

### Technical data

#### Dimensions

Length of cable	380 m
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#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation)
	-25 °C ... 90 °C (cable, flexible installation)

#### General data

Rated current at 40°C	4 A
Rated voltage	30 V AC
	30 V DC
Number of positions	4
Overvoltage category	II
Degree of pollution	3

#### Standards and Regulations

Flammability rating according to UL 94	V0
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#### Cable

Cable type	PROFINET railway applications
Cable type (abbreviation)	936
Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps
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

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### Technical data

#### Cable

Core diameter including insulation	1.95 mm
Wire colors	white-blue, orange-yellow
Overall twist	Star quad
Shielding	Plastic-coated aluminum foil, tinned copper braided shield
Optical shield covering	100 %
External sheath, color	black RAL 9005
Outer sheath thickness	≥ 0.8 mm
External cable diameter D	7.25 mm ±0,3 mm
Minimum bending radius, fixed installation	6 x D
Minimum bending radius, flexible installation	10 x D
Cable weight	81 g/m
Outer sheath, material	PE-X
Material conductor insulation	PE-X
Conductor material	silver-plated Cu litz wires
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)	80 dB (with 1 MHz) 76 dB (at 4 MHz) 67 dB (at 10 MHz) 60 dB (at 31.5 MHz) 56 dB (at 62.5 MHz) 53 dB (at 100 MHz)
Remote crosstalk attenuation (FEXT)	80 dB (with 1 MHz) 70 dB (at 4 MHz) 65 dB (at 10 MHz) 58 dB (at 31.5 MHz) 59 dB (at 62.5 MHz) 67 dB (at 100 MHz)
Attenuation	2 dB (with 1 MHz) 4 dB (at 4 MHz) 6.5 dB (at 10 MHz) 10.5 dB (at 31.5 MHz) 14 dB (at 62.5 MHz) 18 dB (at 100 MHz)
Return loss (RL)	35 dB (at 4 MHz) 35 dB (at 10 MHz) 35 dB (at 31.5 MHz) 33 dB (at 62.5 MHz)

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#### Cable

	33 dB (at 100 MHz)
Signal speed	66 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)
Fire protection in rail vehicles	BS 6853 (Category Ia, Ib, II)
	GM/RT 2130 (Category Ia, Ib, II)
	EN 45545 (Risk level HL1 - HL3)
	DIN 5510 (Fire protection level 1, 2, 3, 4)
	NF F16-101 (Category A1, A2, B)
	NF F16-101 (Class C/F0)
	NFPA 130
	UNI CEI 11170 (Risk level LR1 - LR4)
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
Concentration of fumes	BS 6853 D.8.7
	EN 61034-2
	UL 1685, 12 (FT4)
Fume corrosiveness	EN 50267-2-2
Fume toxicity	BS 6853 B.1
	EN 50305, 9.2
Ambient temperature (operation)	-50 °C ... 90 °C (cable, fixed installation)
	-40 °C ... 90 °C (cable, flexible installation)

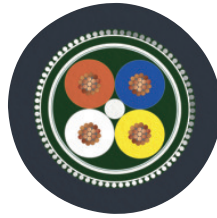
#### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

#### Drawings

## Bus system cable - NBC-380,0-936 - 1413310

Cable cross section



PROFINET railway applications [936]

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