


Bus system cable - SAC-4P-M12MSD/ 4,0-936/M12MSD - 1401034

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Bus system cable, PROFINET, 4-position, PE-X, black RAL 9005, shielded, Plug straight M12, D-coded, on Plug straight M12, D-coded, cable length: 4 m



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	 4 046356 517461
GTIN	4046356517461

Technical data

Mechanical characteristics

Number of positions	4
Shielded	yes
Insertion/withdrawal cycles	≥ 100
Cable diameter	7.25 mm
Length of cable	4 m
Degree of protection	IP65/IP67/IP69K
No. of cable outlets	1

Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-40 °C ... 90 °C (cable, fixed installation)
	-25 °C ... 90 °C (cable, flexible installation)
Degree of protection	IP65
	IP67
	IP68

Material data

Flammability rating according to UL 94	V0
Contact carrier material	PA 6.6
Contact material	CuSn
Contact surface material	Ni/Au
Cable gland material	Zinc die-cast, nickel-plated
Sealing material	NBR

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Technical data

Material data

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

Standards and Regulations

Flammability rating according to UL 94	V0
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Line characteristics

Cable type	Ethernet
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	1.95 mm
External cable diameter	7.25 mm ±0,3 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)	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)
Wave 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	35 dB (at 4 MHz) 35 dB (at 10 MHz) 35 dB (at 31.5 MHz) 33 dB (at 62.5 MHz) 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

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Technical data

Line characteristics

Test voltage, cable	2000 V AC (50 Hz, 5 minutes)
Overall twist	Star quad
Shielding	Plastic-coated aluminum foil, tinned copper braided shield
Optical shield covering	100 %
Outer sheath, material	PE-X
Material conductor insulation	PE-X
Conductor material	silver-plated Cu litz wires
Cable weight	81 g/m
Minimum bending radius, fixed installation	6 x D
Minimum bending radius, flexible installation	10 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)

Drawings

Cable cross section



PROFINET railway applications [936]

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