

Bus system cable - SAC-M12MSB/2,0-980/M12FSB SCO - 1410368

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Bus system cable, 5-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12 SPEEDCON, B-coded, on Socket straight M12 SPEEDCON, B-coded, cable length: 2 m



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	 4 046356 895668
GTIN	4046356895668

Technical data

Dimensions

Length of cable	2 m
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General

Rated current at 40°C	4 A
Rated voltage	48 V AC 60 V DC
Number of positions	5
Insulation resistance	≥ 100 MΩ
Coding	B - inverse
Status display	No
Overvoltage category	III
Degree of pollution	3

Material

Flammability rating according to UL 94	HB
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

Standards and Regulations

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Technical data

Standards and Regulations

Flammability rating according to UL 94	HB
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Cable

Cable type	FireWire
Cable type (abbreviation)	980
Cable structure	2x2xAWG26/7 + 2xAWG20/19; S/FTP
Conductor cross section	2x 2x 0.14 mm ² (Signal line)
	2x 0.5 mm ² (Power supply)
AWG signal line	26
AWG power supply	20
Conductor structure signal line	7x 0.15 mm
Conductor structure, voltage supply	19x 0.20 mm
Core diameter including insulation	≤ 1.05 mm (Signal line)
	nom. 1.4 mm (Power supply)
Wire colors	White-blue, white-orange, white, black
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	Two pairs and two power supply wires to the core
Shielding	Tinned copper braided shield
External sheath, color	water blue RAL 5021
External cable diameter D	6.7 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	5 x D
Cable weight	59 kg/km
Tensile strength GRP	≤ 30 N
Outer sheath, material	PUR
Material conductor insulation	Cell PE (Signal line)
	PVC (Power supply)
Conductor material	Bare Cu litz wires
Insulation resistance	5 GΩ*km
Conductor resistance	150 Ω/km
Transmission characteristics (category)	CAT7, for USB 2.0 (480 Mbps)
Working capacitance	42 pF (per meter)
Wave impedance	100 Ω ±5 % (at 100 MHz)
Signal speed	0.72 c
Signal runtime	4.6 ns/m
Shield attenuation	60 dB (up to 1000 MHz)
Interference suppression	90 dB (up to 1000 MHz)
Coupling resistance	5.00 mΩ/m (at 10 MHz)
Nominal voltage, cable	≤ 125 V
Test voltage, cable	1000 V

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Technical data

Cable

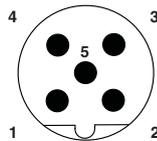
Special properties	Free of substances which would hinder coating with paint or varnish
Flame resistance	complying with IEC 60332-2-2
Resistance to oil	according to EN 60811-2-1
Other resistance	Microbe resistance as per DIN VDE 0282
	Hydrolysis resistance as per DIN 53504
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-10 °C ... 50 °C (cable, flexible installation)

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

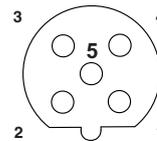
Drawings

Schematic diagram



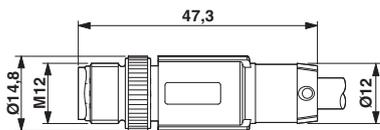
Pin assignment M12 male connector, 5-pos., B-coded, male side

Schematic diagram



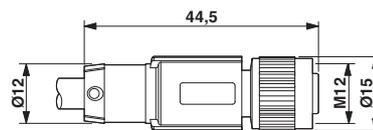
Pin assignment M12 socket, 5-pos., B-coded, female side

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

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