

Bus system cable - SAC-4P-M12MS/ 5,0-990/M12FS - 1558441


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Bus system cable, CC link (10 Mbps), 4-position, PVC, red, shielded, Plug straight M12, A-coded, on Socket straight M12, A-coded, cable length: 5 m



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	 4 046356 293778
GTIN	4046356293778

Technical data

Dimensions

Length of cable	5 m
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Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
Degree of protection	IP65
	IP67

General

Rated current at 40°C	4 A
Rated voltage	48 V AC
	60 V DC
Number of positions	4
Color handle area	black
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Signal type/category	CC link, 10 Mbps
Status display	No
Overvoltage category	II

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Technical data

General

Degree of pollution	3
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)

Material

Flammability rating according to UL 94	HB
Contact material	CuZn
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

Pin assignment

Position = wire color (signal) = position (optional)	1 (Plug) SR (shield) 1 (Socket)
	2 (Plug) WH (DB) 2 (Socket)
	3 (Plug) YE (DG) 3 (Socket)
	4 (Plug) BU (DA) 4 (Socket)

Standards and Regulations

Flammability rating according to UL 94	HB
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Cable

Cable type	CC-Link
Cable type (abbreviation)	990
Cable structure	3xAWG20/7 + 1xAWG22/19 (filler litz wire)
Conductor cross section	0.5 mm ²
AWG signal line	20
Conductor structure signal line	7x 0.28 mm
Thickness, insulation	0.89 mm (Outer cable sheath)
Wire colors	white, yellow, blue
Shielding	Plastic-coated aluminum foil, tinned copper braided shield
Optical shield covering	78 %
External sheath, color	red
External cable diameter D	7.7 mm
Smallest bending radius, fixed installation	77 mm
Cable weight	78.8 kg/km
Outer sheath, material	PVC
Material conductor insulation	foamed PE, with high density
Conductor material	Bare Cu litz wires
Conductor resistance	31.2 Ω/km
Working capacitance	61 pF
Wave impedance	110 Ω

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Technical data

Cable

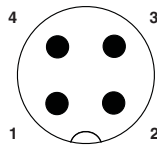
Nominal voltage, cable	300 V
Ambient temperature (operation)	-30 °C ... 60 °C (cable, fixed installation)
	-5 °C ... 60 °C (cable, flexible installation)

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"

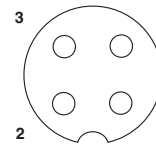
Drawings

Schematic diagram



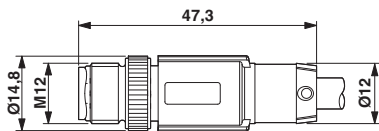
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Schematic diagram



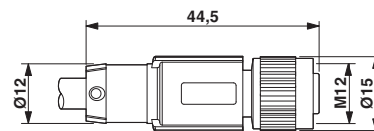
Pin assignment M12 socket, 4-pos., A-coded, view female side

Dimensional drawing



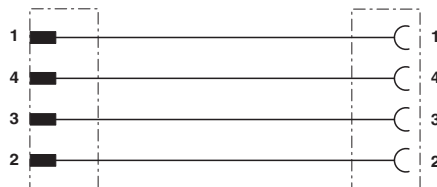
Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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Approvals


Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC		EAC-Zulassung
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