Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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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 STK
Minimum order quantity	50 STK
GTIN	
GTIN	4046356293778

Technical data

Dimensions

Length of cable	5 m

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

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

Cable

Cable type	CC-Link
Cable type (abbreviation)	990
Cable structure	3xAWG20/7 + 1xAWG22/19 (filler litz wire)
Conductor cross section	0.5 mm²
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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Bus system cable - SAC-4P-M12MS/ 5,0-990/M12FS - 1558441

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
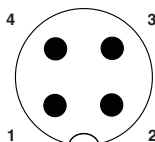
Pin assignment M12 plug, 4-pos., A-coded, view plug side
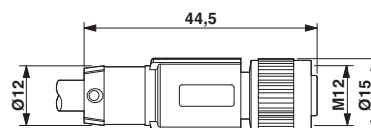
Schematic diagram
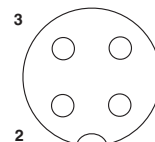
Pin assignment M12 socket, 4-pos., A-coded, view female side
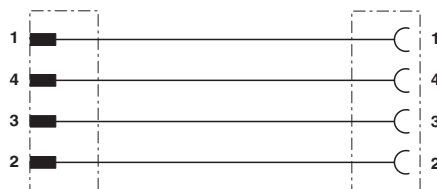
Dimensional drawing
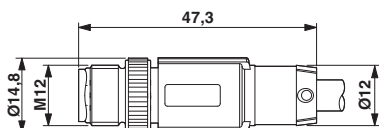
Plug, M12 x 1, straight, shielded

Dimensional drawing

M12 x 1 socket, straight, shielded

Circuit diagram

Contact assignment of the M12 plug and the M12 socket

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

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC	EAC	EAC-Zulassung