



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 connector - SACC-MSB-2QO SH PB SCO - 1413931

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Bus system connector, PROFIBUS DP (12 Mbps), 2-position, halogen-free, shielded, Plug straight M12, B-coded, Insulation displacement connection, Knurl material: Zinc die-cast, nickel-plated, External cable diameter 5 mm ... 9.7 mm

Product Features

- ✓ Safe use in the field, thanks to a high degree of protection
- ✓ Flexible: connectors for on-site assembly
- ✓ Insulation displacement connection: innovative and time-saving assembly without stripping the single wire
- ✓ Reliable signal transmission - 360° shielding in environments with electromagnetic interference
- ✓ Save time, thanks to installation with SPEEDCON fast locking system



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	40.0 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Wrench size, union nut	15 mm
External diameter	5 mm ... 9.7 mm
Stripping length of the sheath	≥ 80 mm

Ambient conditions

Ambient temperature (assembly)	-5 °C ... 50 °C
Degree of protection	IP65
	IP67

General

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Technical data

General

Rated current at 40°C	4 A
Rated voltage	60 V DC
Number of positions	2
Insulation resistance	≥ 100 MΩ
Coding	B-coded
Standards/regulations	M12 connector IEC 61076-2-101
Signal type/category	PROFIBUS DP, 12 Mbps
Status display	No
Overvoltage category	II
Pollution degree	3
Connection method	Insulation displacement connection
Conductor cross section	0.25 mm² ... 0.75 mm² (stranded)
	0.14 mm² ... 0.5 mm² (solid)
AWG conductor cross section	24 ... 18 (stranded)
	26 ... 20 (solid)
Wire diameter including insulation	1 mm ... 2 mm (maximum of 2.6 mm when connecting PROFIBUS cables)
Frequency of connections between conductors of the same cross section	10
Wire insulation material	PVC / PE / PP / rubber
Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	Class 2-6
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 knurl)
	5 Nm (Pressure nut)

Material

Flammability rating according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material of grip body	Zinc die-cast, nickel-plated
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR
Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Classifications

eCl@ss

eCl@ss 5.1	27143423
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Classifications

eCl@ss

eCl@ss 6.0	27279221
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ETIM

ETIM 5.0	EC002635
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Approvals

Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

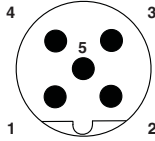
Approval details

EAC

Drawings

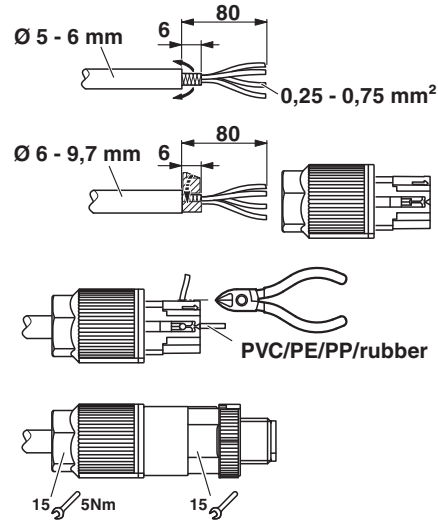
Bus system connector - SACC-MSB-2QO SH PB SCO - 1413931

Schematic diagram

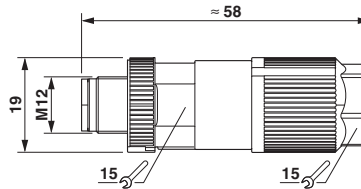


Pin assignment M12 male connector, 5-pos., B-coded, male side

Functional drawing



Dimensional drawing



Plug, M12 x 1, straight, shielded