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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.

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Bus system connector - SACC-MRB-5SC SH IB SCO - 1432813

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Bus system connector, INTERBUS, 5-position, Plug angled M12, B-coded, Spring-cage conn., Knurl material: Nickel-plated brass, External cable diameter 4 mm ... 8 mm



Product Features

- Safe use in the field, thanks to a high degree of protection
- Flexible: connectors for on-site assembly
- Save time, thanks to installation with SPEEDCON rapid interlock system
- Spring-cage connection: connect more securely, even in the case of shock and vibration, thanks to high contact forces
- Reliable signal transmission - 360° shielding in environments with electromagnetic interference



Key commercial data

Packing unit	1 PCE
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

External diameter	4 mm ... 8 mm
Stripping length of the sheath	35 mm
Stripping length of the individual wire	11 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)
Degree of protection	IP67

General

Rated current at 40°C	4 A
Rated voltage	60 V

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Technical data

General

Number of positions	5
Contact resistance	$\leq 8 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Coding	B - inverse
Standards/regulations	M12 connector IEC 61076-2-101
Signal type/category	INTERBUS
Status display	No
Surge voltage category	II
Pollution degree	3
Connection method	Spring-cage conn.
Conductor cross section	$0.14 \text{ mm}^2 \dots 0.5 \text{ mm}^2$
AWG conductor cross section	26 ... 20
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 knurl) 0.8 Nm (Connector with coupling sleeve) 3 Nm (Pressure nut with coupling sleeve)
Assembly instructions	AWG 18 wire cross section upon request The connector pin assignment can be rotated 45° to the cable outlet

Material

Inflammability class according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU
Material of grip body	Zinc die-cast, nickel-plated
Material, knurls	Nickel-plated brass
Sealing material	NBR

Classifications

eCl@ss

eCl@ss 4.0	27250313
eCl@ss 4.1	27250313
eCl@ss 5.0	27143423
eCl@ss 5.1	27143423
eCl@ss 6.0	27143423
eCl@ss 7.0	27449001
eCl@ss 8.0	27449001

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Classifications

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC002062
ETIM 5.0	EC002062

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized 	
Nominal current IN	4 A
Nominal voltage UN	125 V

cUL Recognized 	
Nominal current IN	4 A

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Approvals

Nominal voltage UN	125 V

GOST 

cULus Recognized 

Accessories

Accessories

Data cable by the meter

Bus system cable - SAC-4P-950/... - 1543401



Bus system cable, INTERBUS, 4-position, PUR halogen-free, Black RAL 9005, shielded, Free cable end, on Free cable end, Cable length: Free entry (0.5 ... 400.0 m)

Protective cap

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873



M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 sockets

Screwdriver tools

Tool - SACC BIT M12-D20 - 1208445



Nut for assembling SACC M12 connectors for free assembly, excluding M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

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Accessories

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

Shield connection

Shielding foil - ALU-SB - 1404531



Aluminum shielding tape, for fixing the braided shield of shielded cables. Length: 4 cm, width: 1.2 cm

Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

Torque screwdriver - TSD 08 SAC - 1212597



Torque screw driver with preset torque of 0.8 Nm, with 4 mm hexagon for accommodating SAC bits, two-component handle with non-slip grip

Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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Accessories

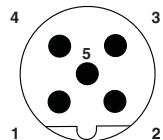
Torque screwdriver - TSD-M 3NM - 1212225



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 1.2 - 3 Nm

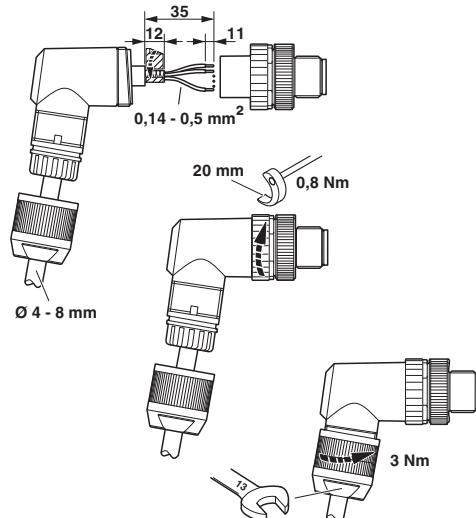
Drawings

Schematic diagram



Connector pin assignment M12 connector, 5-pos., B-coded

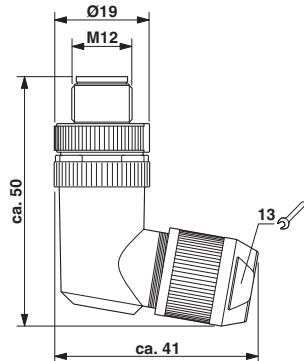
Functional drawing



Strip the cable, shorten the shield, strip the single wires, push the pressure nut onto the cable. Slide the wires through the sleeve housing and connect, stick shielding foil around the shortened shield, in the case of straight sleeve housing, gently twist the wires together, screw sleeve housing to the plug insert, screw the pressure nut tight.

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Dimensioned drawing



Plug M12 SPEEDCON, angled, shielded