

## Bus system connector - SACC-M12MSB-5SC SH IB - 1549832

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

### Why buy this product

- Safe use in the field, thanks to a high degree of protection
- Flexible: connectors for on-site assembly
- 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 pc
GTIN	 4 046356 149051
Weight per Piece (excluding packing)	40.1 g
Custom tariff number	85366990
Country of origin	Germany
Note	Made to Order (non-returnable)

### Technical data

#### Dimensions

External diameter	4 mm ... 8 mm
Stripping length of the sheath	33 mm
Stripping length of the individual wire	10 mm

#### Ambient conditions

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

#### General

Rated current at 40°C	4 A
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### Technical data

#### General

Rated voltage	60 V DC
	48 V AC
Number of positions	5
Contact resistance	≤ 8 mΩ
Insulation resistance	≥ 100 MΩ
Coding	B-coded
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Surge voltage category	II
Pollution degree	3
Connection method	Spring-cage connection
Conductor cross section	0.14 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
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)
Assembly instructions	The wires can be connected both with ferrules and without ferrules

#### Material

Inflammability class according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 66
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	27440104

#### ETIM

ETIM 3.0	EC002062
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## Classifications

### ETIM

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

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#### Approvals

UL Recognized / cUL Recognized / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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## Approval details

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

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

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### Approvals

cULus Recognized 

### Accessories

#### Accessories

#### 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

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

Shielding foil, 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

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## Accessories

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

Torque screwdriver - TSD-M 3NM - 1212225



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

Tool - VS-CABLE-STRIP-VARIO - 1657407



Stripping tool, for the multi-level stripping of shielded cables

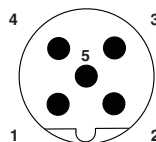
## Drawings

Functional drawing

Slide the pressure nut

and assignment M12 male connector, 5-pos., B-coded, male side sleeve housing along the cable,

Schematic diagram



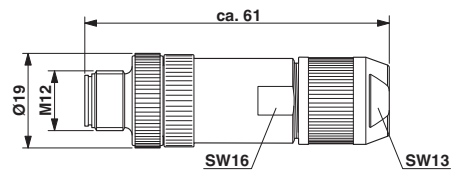
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strip  
the  
cable,  
shorten  
the  
shield,  
strip  
the  
single  
wires,  
connect  
the  
wires,  
in  
the  
case  
of  
a  
straight  
sleeve  
housing  
gently  
twist  
the  
wires  
together,  
stick  
the  
shielding  
foil  
around  
the  
shortened  
shield,  
in  
the  
case  
of  
a  
cable  
outside  
diameter  
<  
6  
mm  
stick  
an  
additional  
shielding  
foil  
around  
the  
wire  
pack,  
screw  
the  
sleeve  
housing  
to  
the  
plug  
insert,  
screw  
the  
pressure

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nut  
tight.

Dimensioned drawing



Plug, M12 x 1, straight, shielded

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