

# Bus system flat-type plug - SACCBP-M12FS-5CON-M16/1,0-920 - 1534478

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Bus system flush-type socket, DeviceNet/CANopen, 5-pos., M12, shielded, A-coded, rear/screw mounting with M16 thread, with 1 m bus cable, 2 x 0.2 mm<sup>2</sup>, 2 x 0.32 mm<sup>2</sup>

DeviceNet CANopen

## Key commercial data

package_quantity	1
GTIN	4046356026642

## Technical data

### Dimensions

Length of cable	1 m
-----------------	-----

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
Degree of protection	IP67

### General

Note	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	5
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Surge voltage category	II
Pollution degree	3
Test voltage	2500 V
Insertion/withdrawal cycles	> 100

# Bus system flat-type plug - SACCBP-M12FS-5CON-M16/1,0-920 - 1534478

## Technical data

### General

<b>Torque</b>	2 Nm ... 3 Nm (Installation-side)
---------------	-----------------------------------

### Material

<b>Inflammability class according to UL 94</b>	V0
<b>Contact material</b>	CuZn
<b>Contact surface material</b>	Ni/Au
<b>Contact carrier material</b>	PA 66
<b>Material, knurls</b>	Nickel-plated brass
<b>Sealing material</b>	FKM

### Cable

<b>Cable type</b>	CAN Bus/DeviceNet
<b>Cable type (abbreviation)</b>	920
<b>UL AWM style</b>	21198 (80°C/300 V)
<b>Conductor cross section</b>	2x 0.25 mm <sup>2</sup> (signal line)
<b>Conductor cross section</b>	2x 0.34 mm <sup>2</sup> (Power supply)
<b>Conductor cross section</b>	1x 0.34 mm <sup>2</sup> (Drain wire)
<b>AWG signal line</b>	24
<b>AWG power supply</b>	22
<b>Conductor structure signal line</b>	19x 0.13 mm
<b>Conductor structure, voltage supply</b>	19x 0.15 mm
<b>Core diameter including insulation</b>	1.95 mm ±0.05 mm (signal line)
<b>Core diameter including insulation</b>	1.4 mm ±0.05 mm (Power supply)
<b>Wire colors</b>	Red-black, blue-white
<b>Twisted pairs</b>	2 cores to the pair
<b>Type of pair shielding</b>	Aluminum-lined polyester foil
<b>Overall twist</b>	2 pairs around a drain wire in the center to the core
<b>Shielding</b>	Tinned copper braided shield
<b>Optical shield covering</b>	80 %
<b>External sheath, color</b>	Violet, RAL 4001
<b>External cable diameter D</b>	6.7 mm ±0.3 mm
<b>Smallest bending radius, fixed installation</b>	67 mm
<b>Smallest bending radius, movable installation</b>	67 mm
<b>Number of bending cycles</b>	5000000
<b>Bending radius</b>	70 mm
<b>Traversing path</b>	4.5 m
<b>Traversing rate</b>	3 m/s
<b>Acceleration</b>	3 m/s <sup>2</sup>
<b>Outer sheath, material</b>	PUR
<b>Material conductor insulation</b>	Foamed PE (signal line)
<b>Material conductor insulation</b>	PE (Power supply)

# Bus system flat-type plug - SACCBP-M12FS-5CON-M16/1,0-920 - 1534478

## Technical data

### Cable

<b>Conductor material</b>	Tin-plated Cu litz wires
<b>Insulation resistance</b>	≥ 5 GΩ*km (signal line)
<b>Insulation resistance</b>	≥ 5 GΩ*km (Power supply)
<b>Working capacitance</b>	nom. 40 nF (signal line)
<b>Wave impedance</b>	120 Ω ± 12 Ω (f = 1 MHz)
<b>Nominal voltage, cable</b>	max. 300 V
<b>Test voltage, cable</b>	2000 V (50 Hz, 1 min.)
<b>Flame resistance</b>	UL 1581, Sec. 1060 (FT-1)
<b>Flame resistance</b>	IEC 60332-1
<b>Ambient temperature (operation)</b>	-40 °C ... 80 °C (cable, fixed installation)
<b>Ambient temperature (operation)</b>	-20 °C ... 70 °C (cable, flexible installation)

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27140815
<b>eCl@ss 4.1</b>	27140815
<b>eCl@ss 5.0</b>	27143423
<b>eCl@ss 5.1</b>	27143423
<b>eCl@ss 6.0</b>	27143423
<b>eCl@ss 7.0</b>	27449001
<b>eCl@ss 8.0</b>	27449001

### ETIM

<b>ETIM 2.0</b>	EC001297
<b>ETIM 3.0</b>	EC002061
<b>ETIM 4.0</b>	EC002061
<b>ETIM 5.0</b>	EC002061

### UNSPSC

<b>UNSPSC 6.01</b>	31251501
<b>UNSPSC 7.0901</b>	31251501
<b>UNSPSC 11</b>	31251501
<b>UNSPSC 12.01</b>	31251501
<b>UNSPSC 13.2</b>	31251501

## approvals

---

GOST / GOST /

---

### Approval details

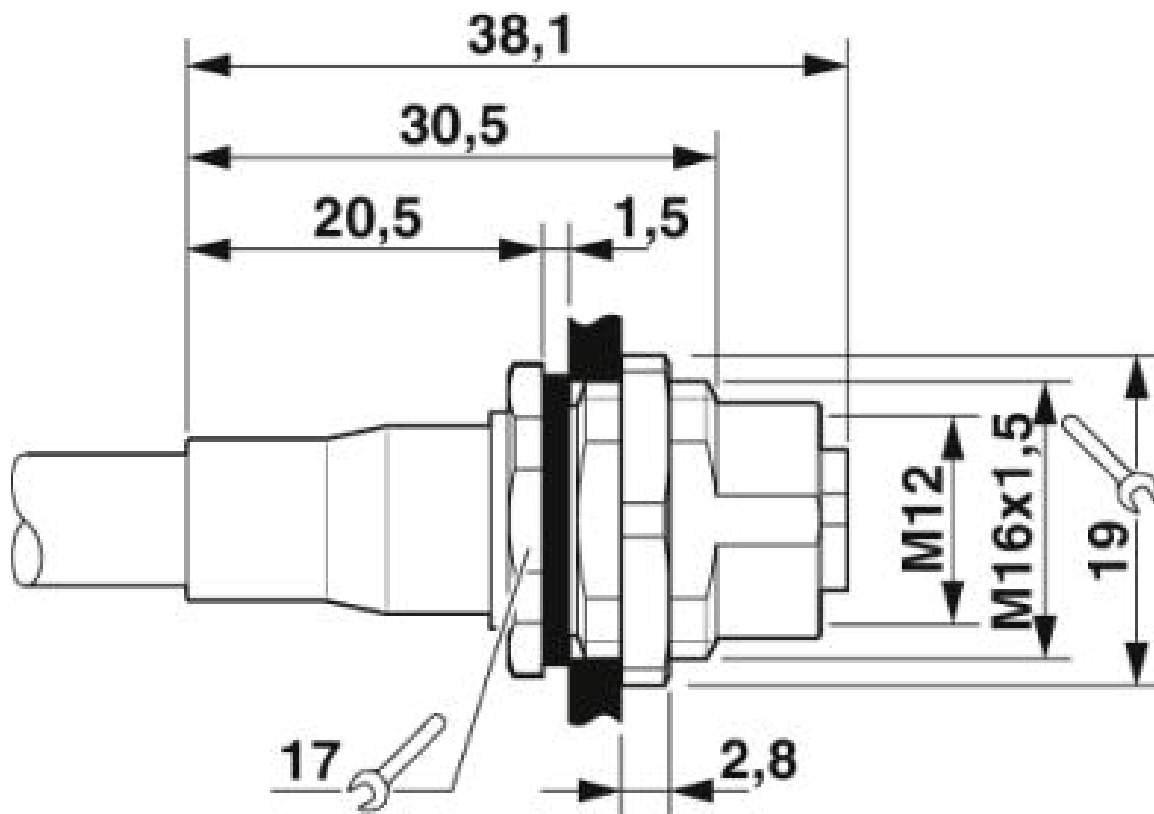
# Bus system flat-type plug - SACCBP-M12FS-5CON-M16/1,0-920 - 1534478

approvals



Drawings

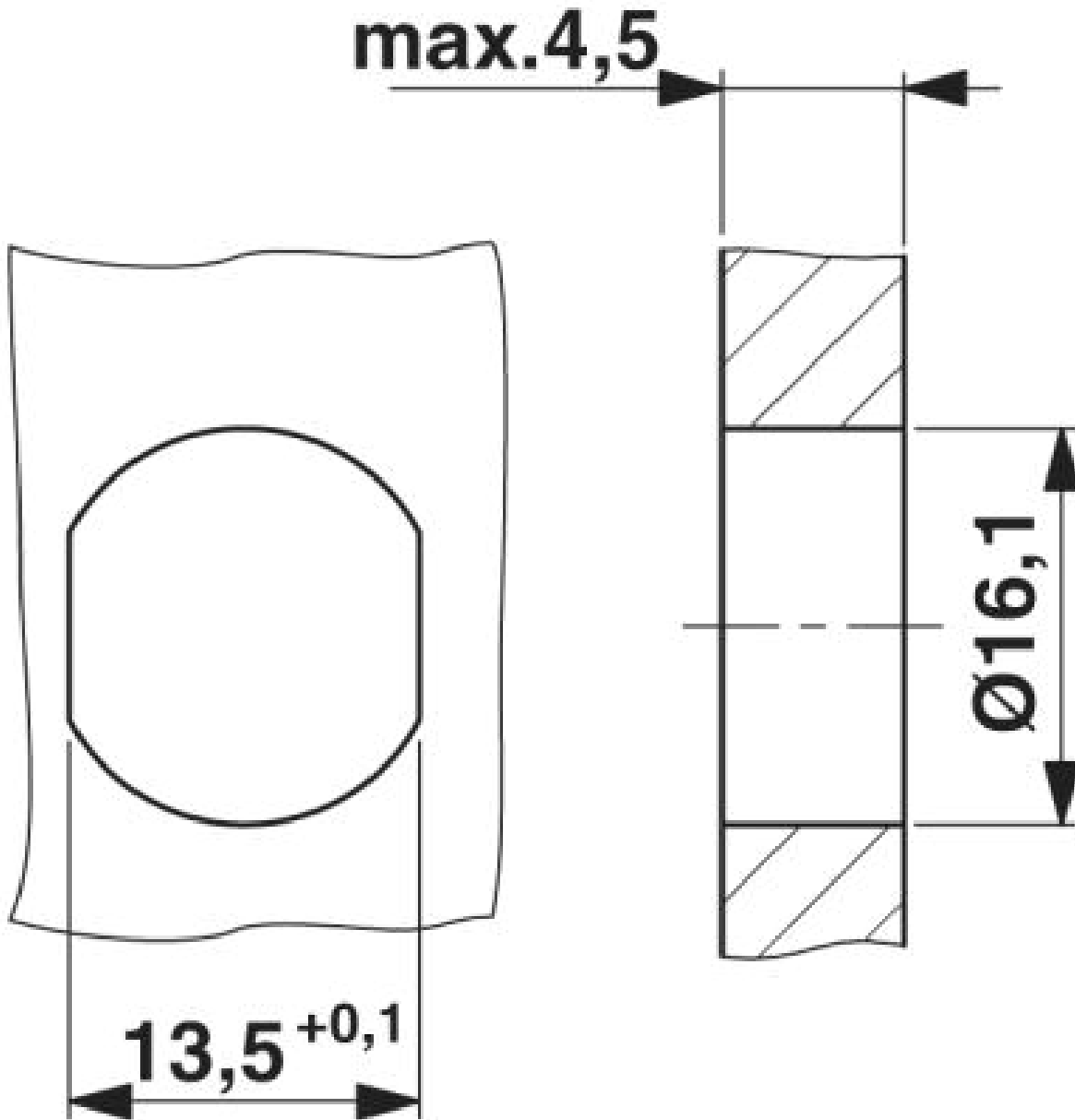
Dimensioned drawing



M12 flush-type connector

# Bus system flat-type plug - SACCBP-M12FS-5CON-M16/1,0-920 - 1534478

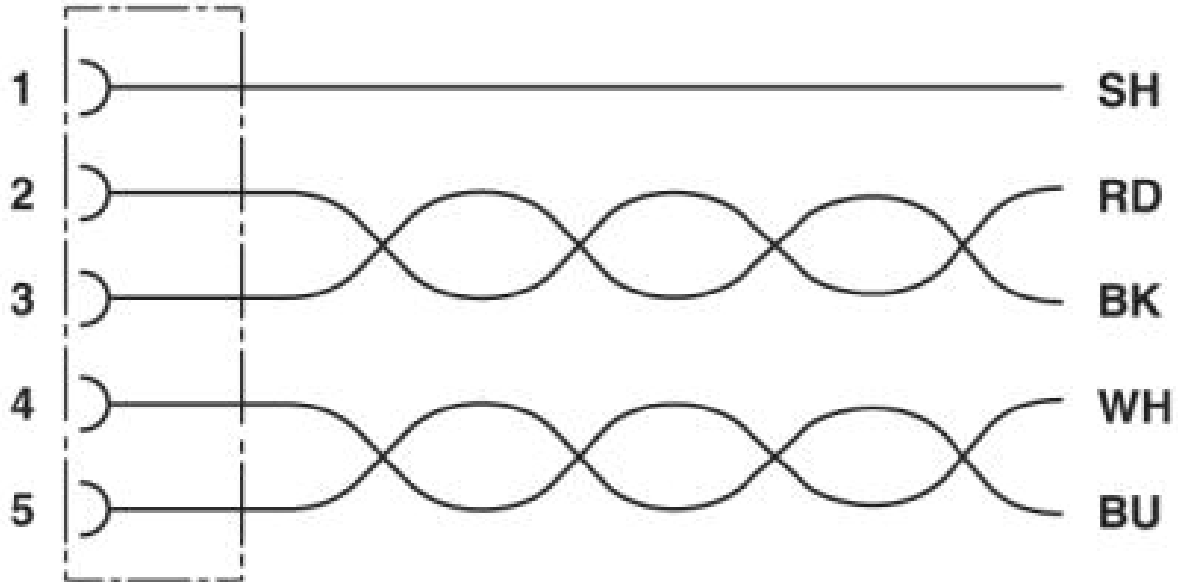
Dimensioned drawing



Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

# Bus system flat-type plug - SACCBP-M12FS-5CON-M16/1,0-920 - 1534478

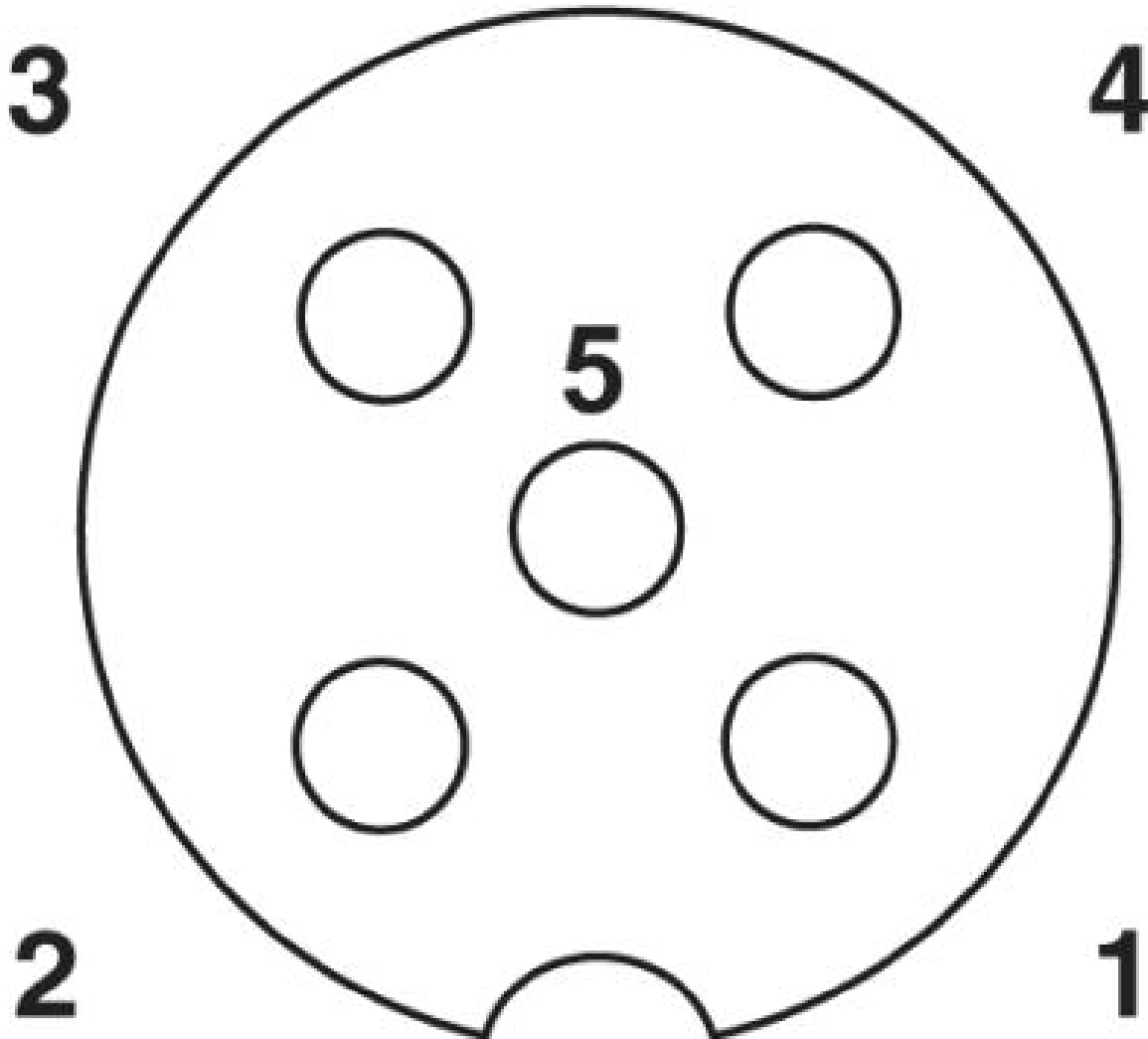
Circuit diagram



Contact assignment of the M12 socket

# Bus system flat-type plug - SACCBP-M12FS-5CON-M16/1,0-920 - 1534478

Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

## Bus system flat-type plug - SACCBP-M12FS-5CON-M16/1,0-920 - 1534478

Cable cross section



CAN Bus/DeviceNet [920]

© Phoenix Contact 2014 - all rights reserved  
<http://www.phoenixcontact.com>