

## Bus system flat-type plug - SACCEC-M12MS-5CON-M16/ 5,0-920 - 1525652

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 plug, DeviceNet/CANopen, 5-pos., M12, shielded, A-coded, front/screw mounting with M16 thread, with 5 m bus cable, 2 x 0.2 mm<sup>2</sup>, 2 x 0.32 mm<sup>2</sup>



### Key commercial data

Packing unit	1 1
Weight per Piece (excluding packing)	312.8 GRM
Custom tariff number	85369010
Country of origin	Germany

### Technical data

#### Dimensions

Length of cable	5 m
-----------------	-----

#### Ambient conditions

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

#### General

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

# Bus system flat-type plug - SACCEC-M12MS-5CON-M16/ 5,0-920 - 1525652

## Technical data

### General

Pollution degree	3
Test voltage	2500 V
Connection method	CAN Bus / DeviceNet
Mounting type	Front mounting M16 x 1.5 With locking nut

### Material

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

### Cable

Cable type	CAN Bus/DeviceNet
Cable type (abbreviation)	920
Conductor cross section	2x 0.25 mm <sup>2</sup> (signal line)
	2x 0.34 mm <sup>2</sup> (Power supply)
	1x 0.34 mm <sup>2</sup> (Drain wire)
AWG signal line	24
AWG power supply	22
Conductor structure signal line	19x 0.13 mm
Conductor structure, voltage supply	19x 0.15 mm
Core diameter including insulation	1.95 mm ±0.05 mm (signal line)
	1.4 mm ±0.05 mm (Power supply)
Wire colors	Red-black, blue-white
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	2 pairs around a drain wire in the center to the core
Shielding	Tinned copper braided shield
Optical shield covering	80 %
External sheath, color	Violet, RAL 4001
External cable diameter D	6.7 mm ±0.3 mm
Smallest bending radius, fixed installation	67 mm
Smallest bending radius, movable installation	67 mm
Number of bending cycles	2000000
Bending radius	67 mm

# Bus system flat-type plug - SACCEC-M12MS-5CON-M16/ 5,0-920 - 1525652

## Technical data

### Cable

Traversing path	4.5 m
Traversing rate	3 m/s
Acceleration	3 m/s <sup>2</sup>
Outer sheath, material	PUR
Material conductor insulation	Foamed PE (signal line)
	PE (Power supply)
Conductor material	Tin-plated Cu litz wires
Insulation resistance	$\geq 5 \text{ G}\Omega \cdot \text{km}$ (signal line)
	$\geq 5 \text{ G}\Omega \cdot \text{km}$ (Power supply)
Working capacitance	nom. 40 nF (signal line)
Wave impedance	$120 \Omega \pm 12 \Omega$ (with 1 MHz)
Nominal voltage, cable	max. 300 V
Test voltage, cable	2000 V (50 Hz, 1 min.)
Flame resistance	UL 1581, Sec. 1060 (FT-1)
	IEC 60332-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 70 °C (cable, flexible installation)

## Classifications

### eCl@ss

eCl@ss 4.0	27140815
eCl@ss 4.1	27140815
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

### ETIM

ETIM 2.0	EC001297
ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 5.0	EC002061

## Bus system flat-type plug - SACCEC-M12MS-5CON-M16/ 5,0-920 - 1525652

### Classifications

#### UNSPSC

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

### Approvals

#### Approvals

---

Approvals

GOST / GOST

---

Ex Approvals

---

Approvals submitted

---

#### Approval details

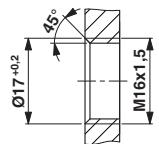
GOST 

GOST 

### Drawings

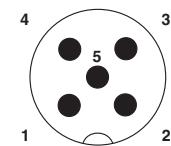
## Bus system flat-type plug - SACCEC-M12MS-5CON-M16/ 5,0-920 - 1525652

Dimensioned drawing



Housing cutout for M16 fastening thread, mounting panel with thread

Schematic diagram



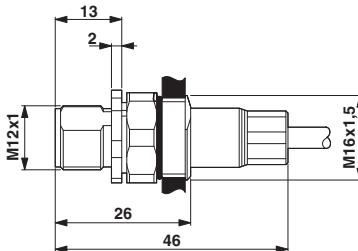
Pin assignment M12 male connector, 5-pos., A-coded, male side

Cable cross section



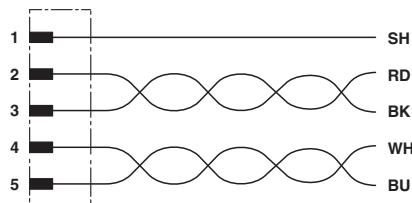
CAN Bus/DeviceNet [920]

Dimensioned drawing



M12 flush-type plug

Circuit diagram



Contact assignment of the M12 plug