

# Bus system flat-type plug - SACCEC-M12FSB-2CON-M16/5,0-910 - 1525610

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Bus system flush-type socket, PROFIBUS, 2-pos., M12, shielded, B-coded, front/screw mounting with M16 thread, with 5 m bus cable, 2 x 0.25 mm<sup>2</sup>



## Key commercial data

Packing unit	1 pc
GTIN	 4 046356 022354
Weight per Piece (excluding packing)	337.2 g
Custom tariff number	85369010
Country of origin	Germany

## Technical data

### Dimensions

Length of cable	5 m
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### 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	2
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Coding	B - inverse

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### Technical data

#### General

Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Surge voltage category	II
Pollution degree	3
Test voltage	2500 V
Connection method	PROFIBUS
Insertion/withdrawal cycles	> 100
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	PROFIBUS
Cable type (abbreviation)	910
UL AWM style	21198 (80°C/300 V)
Conductor cross section	2x 0.25 mm <sup>2</sup> (signal line)
AWG signal line	24
Conductor structure signal line	19x 0.13 mm
Core diameter including insulation	2.55 mm ±0.07 mm
Wire colors	Red, green
Overall twist	2 cores with 2 fillers to the core
Shielding	Plastic-coated aluminum foil, tinned copper braided shield
Optical shield covering	85 %
External sheath, color	Violet, RAL 4001
External cable diameter D	7.8 mm ±0.2 mm
Number of bending cycles	4000000
Bending radius	65 mm
Traversing path	4.5 m
Traversing rate	3 m/s
Acceleration	3 m/s <sup>2</sup>
Number of bending cycles	5000000
Bending radius	80 mm
Traversing path	4.5 m
Traversing rate	3 m/s

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## Technical data

### Cable

Acceleration	3 m/s <sup>2</sup>
Outer sheath, material	PUR
Material conductor insulation	Foamed PE
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ 5 GΩ*km
Conductor resistance	157.2 Ω/km
Working capacitance	30 nF
Wave impedance	nom. 150 Ω ±10 % (3 MHz ... 20 MHz)
Shield attenuation	≤ 4.9 dB (at 16 MHz)
Nominal voltage, cable	30 V
Test voltage Core/Core	1500 V (50 Hz, 1 min.)
Test voltage Core/Shield	1500 V (50 Hz, 1 min.)
Flame resistance	UL 1581, Sec. 1060 (FT-1)
	IEC 60332-1
Other resistance	Low adhesion
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-30 °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	27440103

### ETIM

ETIM 2.0	EC001297
ETIM 3.0	EC002061
ETIM 4.0	EC000830
ETIM 5.0	EC002061

### UNSPSC

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

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## Classifications

UNSPSC

UNSPSC 13.2	31251501
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## Approvals

Approvals

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Approvals

EAC

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Ex Approvals

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Approvals submitted

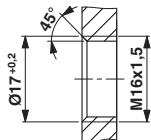
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## Approval details

EAC
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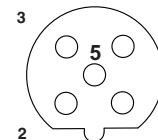
## Drawings

Dimensioned drawing



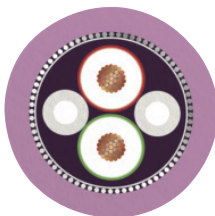
Housing cutout for M16 fastening thread, mounting panel with thread

Schematic diagram



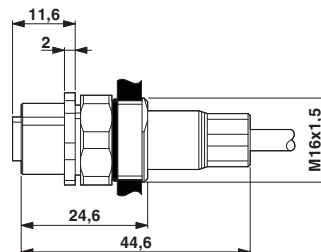
Pin assignment M12 socket, 5-pos., B-coded, female side

Cable cross section



PROFIBUS [910]

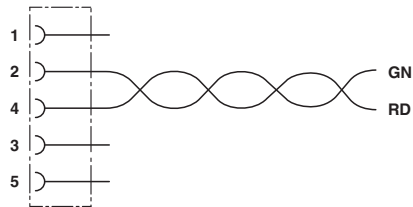
Dimensioned drawing



M12 flush-type connector

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Circuit diagram



Contact assignment of the M12 socket

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