PHŒNIX CONTACT

Bus system flat-type plug - SACCEC-M12FSB-2CON-M16/0,5-910 - 1525597

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Bus system flush-type socket, PROFIBUS, 2-pos., M12, shielded, B-coded, front/screw mounting with M16 thread, with 0.5 m bus cable, 2 x 0.25 mm²

Key commercial data

Packing unit	1 pc
GTIN	4 046356 022330
Weight per Piece (excluding packing)	0.057 kg
Custom tariff number	85444290
Country of origin	Germany

Technical data

Dimensions

Length of cable	0.5 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	2
Contact resistance	$\leq$ 3 mΩ
Insulation resistance	$\geq$ 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 mm² (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/s²
Max. bending cycles	5000000
Bending radius	80 mm
Traversing path	4.5 m
Traversing rate	3 m/s

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Classifications

UNSPSC

UNSPSC 13.2	31251501

Approvals

Approvals

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GOST / GOST
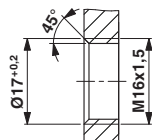
Ex Approvals

Approvals submitted
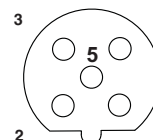
Approval details

GOST

GOST

Drawings

Dimensioned drawing

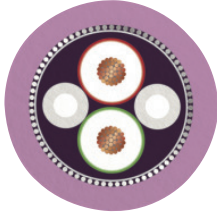Housing cutout for M16 fastening thread, mounting panel with thread

Schematic diagram

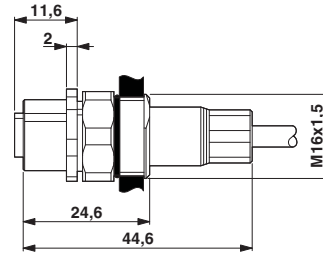Pin assignment M12 socket, 5-pos., B-coded, female side

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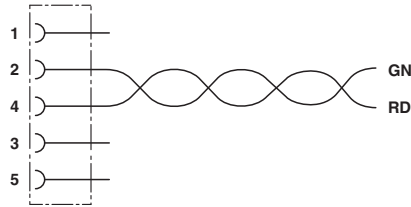
Cable cross section

PROFIBUS [910]

Dimensioned drawing

11,6

2

M16x1,5

24,6

44,6

M12 flush-type socket, can be positioned

Circuit diagram

1

2   GN

4   RD

3

5

Contact assignment of the M12 socket