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Bus system flush-type plug, PROFIBUS, 2-pos., M12, shielded, B-coded, rear/screw mounting with M16 thread, with 5 m bus cable, $2 \times 0.25 \text{ mm}^2$





Key commercial data

Packing unit	11
Weight per Piece (excluding packing)	370.0 GRM
Custom tariff number	85444290
Country of origin	Germany

Technical data

Dimensions

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Length of cable	[5 m	
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Ambient conditions

Ambient temperature (operation)	-20 °C 80 °C (cable, flexible installation)
Degree of protection	IP67

General

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	2
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	\geq 100 M Ω
Coding	B - inverse
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Surge voltage category	Ш

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Technical data

General

Pollution degree	3
Test voltage	2500 V

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

PROFIRMO	
PROFIBUS	
910	
21198 (80°C/300 V)	
2x 0.25 mm² (signal line)	
24	
19x 0.13 mm	
2.55 mm ±0.07 mm	
Red, green	
2 cores with 2 fillers to the core	
Plastic-coated aluminum foil, tinned copper braided shield	
85 %	
Violet, RAL 4001	
7.8 mm ± 0.2 mm	
4000000	
65 mm	
4.5 m	
3 m/s	
3 m/s ²	
5000000	
80 mm	
4.5 m	
3 m/s	
3 m/s ²	
PUR	
Foamed PE	



Technical data

Cable

Conductor material	Tin-plated Cu litz wires	
Insulation resistance	$\geq 5 \text{ G}\Omega^*\text{km}$	
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	27449001

ETIM

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

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501



Classifications

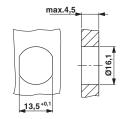
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UNSPSC 12.01	31251501
UNSPSC 13.2	31251501
Approvals	
Approvals	
Approvals	
GOST / GOST	
Ex Approvals	
Approvals submitted	
Approval details	
GOST	
GOST	

Drawings



Dimensioned drawing



Schematic diagram



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

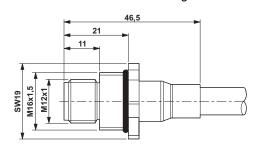
Housing cutout for M16 fastening thread, mounting panel with feedthrough hole (alternatively with surface as protection against rotation)

Cable cross section



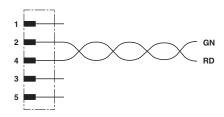
PROFIBUS [910]

Dimensioned drawing



M12 flush-type plug

Circuit diagram



Contact assignment of the M12 plug

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