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Bus system flush-type socket, PROFIBUS, 2-pos., M12, shielded, B-coded, SPEEDCON, rear/screw mounting with Pg9 thread, with 0.5 m bus cable,  $2\times0.25~\text{mm}^2$ 







# Key commercial data

Packing unit	11
Custom tariff number	85444290
Country of origin	Germany

### Technical data

#### **Dimensions**

Length of cable	0.5 m
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### 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	2
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq$ 100 M $\Omega$
Coding	B - inverse
Standards/regulations	M12 connector IEC 61076-2-101
Signal type/category	PROFIBUS
Status display	No



# Technical data

#### General

Surge voltage category	II
Pollution degree	3

#### Material

Inflammability class according to UL 94	V0
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 66
Material, knurls	Zinc die-cast, nickel-plated
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/s <sup>2</sup>
Max. bending cycles	5000000
Bending radius	80 mm
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
-	



# 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	27250313
eCl@ss 4.1	27250313
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 3.0	EC002061
ETIM 4.0	EC002061
ETIM 5.0	EC002061

# **UNSPSC**

UNS	SPSC 6.01	31251501
UNS	SPSC 7.0901	31251501
UNS	SPSC 11	31251501
UNS	SPSC 12.01	31251501



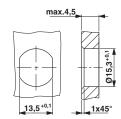
# Classifications **UNSPSC** UNSPSC 13.2 39121413 Approvals Approvals Approvals UL Recognized / GOST / GOST Ex Approvals Approvals submitted Approval details UL Recognized **\$\)** 26-20 mm²/AWG/kcmil Nominal current IN 4 A Nominal voltage UN 250 V GOST 💇

**Drawings** 

GOST 🕙



#### Dimensioned drawing



#### Schematic diagram



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

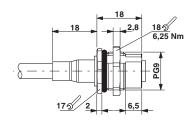
Housing cutout for Pg9 fastening thread, mounting panel with feedthrough hole (alternatively with surface as protection against rotation)

#### Cable cross section



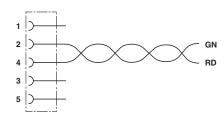
PROFIBUS [910]

#### Dimensioned drawing



M12 panel feed-through

#### Circuit diagram



Contact assignment of the M12 socket

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