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Bus system flush-type plug, INTERBUS, 5-pos., M12, shielded, B-coded, SPEEDCON, rear/screw mounting with Pg9 thread, with 2.0 m bus cable, $3 \times 2 \times 0.25 \text{ mm}^2$



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	160.0 g
Custom tariff number	85444290
Country of origin	Germany

Technical data

Dimensions

Length of cable	2 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
Rated surge voltage	1.5 kV
Number of positions	5
Insulation resistance	100 ΜΩ
Coding	B - inverse
Standards/regulations	M12 connector IEC 61076-2-101

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Technical data

General

Signal type/category	INTERBUS
Overvoltage category	II
Pollution degree	3
Insertion/withdrawal cycles	> 100
Torque	2 Nm 3 Nm (Installation-side)

Material

Flammability rating according to UL 94	V0
Sealing material	FKM

Cable

Cable type (abbreviation)900Signal type/categoryINTERBUSConductor cross section0.22 mm²AWG signal line24Conductor structure signal line32x 0.10 mmWire colorsGreen-yellow, white-brown, gTwisted pairs2 cores to the pairOverall twist3 pairs to the coreShieldingBraided copper wiresExternal sheath, colorgreen RAL 6017Smallest bending radius, fixed installation60 mmSmallest bending cycles5000000Bending radius120 mmTraversing path10 m	
Conductor cross section0.22 mm²AWG signal line24Conductor structure signal line32x 0.10 mmWire colorsGreen-yellow, white-brown, gTwisted pairs2 cores to the pairOverall twist3 pairs to the coreShieldingBraided copper wiresExternal sheath, colorgreen RAL 6017Smallest bending radius, fixed installation60 mmSmallest bending cycles5000000Bending radius120 mm	
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External sheath, colorgreen RAL 6017Smallest bending radius, fixed installation60 mmSmallest bending radius, movable installation120 mmNumber of bending cycles5000000Bending radius120 mm	
Smallest bending radius, fixed installation 60 mm Smallest bending radius, movable installation 120 mm Number of bending cycles 5000000 Bending radius 120 mm	
Smallest bending radius, movable installation 120 mm Number of bending cycles 5000000 Bending radius 120 mm	
Number of bending cycles 5000000 Bending radius 120 mm	
Bending radius 120 mm	
Traversing path 10 m	
Traversing rate 1.6 m/s	
Acceleration 3.2 m/s ²	
Outer sheath, material PUR	
Material conductor insulation PE	
Conductor material Bare Cu litz wires	
Insulation resistance > 5 GΩ*km	
Conductor resistance $\leq 159.8 \text{ m}\Omega/\text{m}$	
Working capacitance 60 nF (At 800 Hz)	
Signal speed 0.66 c	
Nominal voltage, cable 250 V	



Technical data

Cable

Test voltage Core/Core	1500 V
Test voltage Core/Shield	1000 V
Flame resistance	IEC 60332-1
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	27440103

ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 5.0	EC002061

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	39121413

Approvals

Approvals

Approvals

EAC



Approvals

Ex Approvals

Approvals submitted

Approval details

EAC

Drawings





Schematic diagram



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

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

Cable cross section



INTERBUS [900]

M12 panel feed-through

Dimensional drawing





Circuit diagram



Contact assignment of the M12 plug

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