

SAC-2P- 1,0-910/M12FSB - Bus system cable



1562275

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Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, red lilac RAL 4001, shielded, Socket straight M12, coding: B, on free cable end, cable length: 1 m

Commercial data

Item number	1562275
Packing unit	1 pc
Minimum order quantity	250 pc
Product key	AF1CJC
GTIN	4046356304719
Weight per piece (including packing)	83.1 g
Weight per piece (excluding packing)	83 g
Country of origin	PL

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Technical data

Product properties

Product type	Data cable preassembled
Application	Standard
Number of positions	2
No. of cable outlets	1
Shielded	yes
Coding	B

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

Bus system	PROFIBUS
Signal type/category	PROFIBUS, 12 Mbps (max. 100 m)

Signaling

Status display	no
Status display present	no

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A
Transmission medium	Copper
Transmission speed	12 Mbps (max. 100 m)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

Connection data

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Connection assignment

Contact Color (signal designation) Contact (optional)	2 (Socket) GN (A cable)
	4 (Socket) RD (B cable)

Connector

Connection 1

Type	Socket straight M12
Number of positions	2
Coding type	B (inverse)

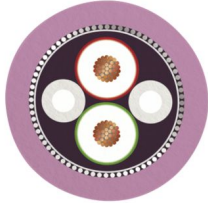
Connection 2

Type	free cable end
Number of positions	2

Cable/line

Cable length	1 m
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PROFIBUS [910]

Dimensional drawing	
Cable weight	90 kg/km
UL AWM Style	21198 (80°C/300 V)
Number of positions	2
Shielded	yes
Cable type	PROFIBUS [910]
Conductor structure	1x2xAWG24/19
Conductor structure signal line	19x 0.13 mm
AWG signal line	24
Conductor cross-section	2x 0.25 mm ² (Signal line)
Wire diameter incl. insulation	2.55 mm ±0.07 mm
External cable diameter	7.80 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	red lilac RAL 4001
Conductor material	Tin-plated Cu litz wires
Material, filler	PP
Material wire insulation	Foam-Skin PP
Single wire, color	red, green
Overall twist	2 cores with 2 fillers to the core

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Optical shield covering	85 %
Max. conductor resistance	≤ 78.6 Ω/km
Insulation resistance	≥ 5 GΩ*km
Wave impedance	150 Ω ±10 % (3 MHz ... 20 MHz)
Cable capacity	nom. 30 pF/m
Nominal voltage, cable	300 V
Test voltage Core/Core	1500 V (50 Hz, 1 min.)
Test voltage Core/Shield	1500.00 V (50 Hz, 1 min.)
Smallest bending radius, fixed installation	40 mm
Smallest bending radius, movable installation	65 mm
Dynamic load capacity (bending)	<p>Max. bending cycles: 4000000, Bending radius: 65 mm, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s², Ambient temperature: -20 °C ... 60 °C</p> <p>Max. bending cycles: 5000000, Bending radius: 80 mm, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s², Ambient temperature: -20 °C ... 60 °C</p>
Shield attenuation	≤ 0.049 dB/m (at 16 MHz)
Halogen-free	<p>in accordance with DIN VDE 0472 part 815</p> <p>according to IEC 60754-1</p>
Flame resistance	<p>UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1)</p> <p>UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)</p> <p>IEC 60332-1-2</p>
Other resistance	Low adhesion
Ambient temperature (operation)	<p>-40 °C ... 80 °C (cable, fixed installation)</p> <p>-30 °C ... 70 °C (Cable, flexible installation)</p> <p>-20 °C ... 60 °C (for installation)</p> <p>-20 °C ... 60 °C (cable, drag chain applications)</p>

Environmental and real-life conditions

Ambient conditions

Degree of protection	<p>IP65</p> <p>IP67</p>
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

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Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Schematic diagram



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

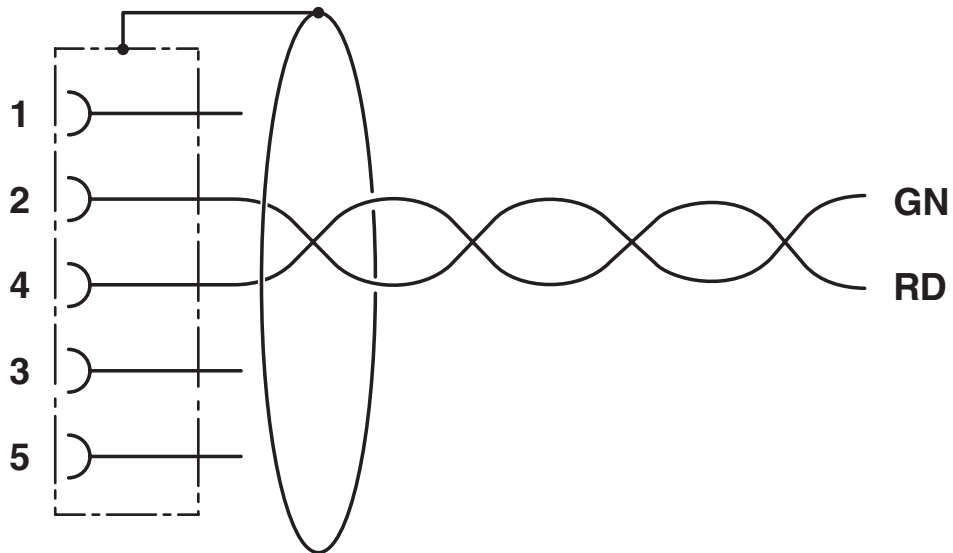
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Circuit diagram



Contact assignment of the M12 socket

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Classifications

ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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