

# SAC-2P-M12MSB/10,0-915 - Bus system cable



1525500

<https://www.phoenixcontact.com/us/products/1525500>

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Bus system cable, PROFIBUS, 2-position, PUR/PVC, blue, shielded, Plug straight M12, coding: B, on free cable end, cable length: 10 m

## Commercial data

Item number	1525500
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	AF1CKC
GTIN	4017918950163
Weight per piece (including packing)	768.96 g
Weight per piece (excluding packing)	768.9 g
Country of origin	PL

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## Technical data

### Product properties

Product type	Data cable preassembled
Application	Bus system
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

### 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

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	$\geq 100$
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### Material specifications

Flammability rating according to UL 94	V0
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

#### Connection assignment

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

## Connector

### Connection 1

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


### Connection 2

Type	free cable end
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## Cable/line

Cable length	10 m
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### PROFIBUS [915]

Dimensional drawing	
Cable weight	74 kg/km
Number of positions	2
Shielded	yes
Cable type	PROFIBUS [915]
Conductor structure	1x2xAWG24/19
Conductor structure signal line	19x 0.14 mm
AWG signal line	24
Conductor cross-section	2x 0.25 mm <sup>2</sup>
Wire diameter incl. insulation	2.56 mm
External cable diameter	8.00 mm ±0.4 mm
Outer sheath, material	PUR
External sheath, color	blue
Conductor material	Bare Cu litz wires
Material wire insulation	Foamed PE
Single wire, color	red, green
Thickness, outer sheath	approx. 0.80 mm
Overall twist	2 wires, twisted
Optical shield covering	70 %
Insulation resistance	≥ 16 GΩ*km
Working capacitance	28 nF (at 1 kHz)

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Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	3600 V DC
Minimum bending radius, flexible installation	5 x D
Smallest bending radius, movable installation	40 mm
Dynamic load capacity (bending)	Max. bending cycles: 3000000, Bending radius: 60 mm, Acceleration: 4 m/s <sup>2</sup>
Tensile strength	≤ 100 N
Flame resistance	according to IEC 60332-1
Resistance to oil	Resistant to mineral oils and grease
Ambient temperature (operation)	-40 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)

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## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

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Schematic diagram



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

Circuit diagram



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## Approvals

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**EAC-RoHS**

Approval ID: RU D-DE.HB35.B.00387

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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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### EF3.1 Climate Change

CO2e kg	8.766 kg CO2e
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