

# SAC-2P- 5,0-915/M12FSB - Bus system cable



1525490

<https://www.phoenixcontact.com/us/products/1525490>

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Bus system cable, PROFIBUS, 2-position, PUR/PVC, blue, shielded, free cable end, on Socket straight M12, coding: B, cable length: 5 m

## Commercial data

Item number	1525490
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF04
Product key	AF1CKC
GTIN	4017918950156
Weight per piece (including packing)	394 g
Weight per piece (excluding packing)	390.7 g
Customs tariff number	85444290
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
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
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	free cable end
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### Connection 2

Type	free cable end
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## Cable/line

Cable length	5 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)
Nominal voltage, cable	≤ 100 V

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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



M12 x 1 socket, straight, shielded

Schematic diagram



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

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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	4.461 kg CO2e
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