

# SAC-2P-M12MSB/ 4,0-915/M12FSB - Bus system cable



1404869

<https://www.phoenixcontact.com/us/products/1404869>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Bus system cable, PROFIBUS, 2-position, PUR/PVC, blue, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 4 m

## Commercial data

Item number	1404869
Packing unit	1 pc
Minimum order quantity	25 pc
Note	Made to order (non-returnable)
Sales key	BF04
Product key	AF1CJC
GTIN	4046356726009
Weight per piece (including packing)	316 g
Weight per piece (excluding packing)	316 g
Customs tariff number	85444290
Country of origin	PL

# SAC-2P-M12MSB/ 4,0-915/M12FSB - Bus system cable



1404869

<https://www.phoenixcontact.com/us/products/1404869>

## Technical data

### Product properties

Product type	Data cable preassembled
Application	Bus system
Sensor type	PROFIBUS
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	≥ 100 MΩ
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	≥ 100
-----------------------------	-------

### 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

# SAC-2P-M12MSB/ 4,0-915/M12FSB - Bus system cable



1404869

<https://www.phoenixcontact.com/us/products/1404869>

## Connection assignment

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

## Connector

### Connection 1

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


### Connection 2

Type	Socket straight M12
Number of positions	2
Coding type	B

## Cable/line

Cable length	4 m
--------------	-----

## 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

# SAC-2P-M12MSB/ 4,0-915/M12FSB - Bus system cable



1404869

<https://www.phoenixcontact.com/us/products/1404869>

Optical shield covering	70 %
Insulation resistance	$\geq 16 \text{ G}\Omega \cdot \text{km}$
Working capacitance	28 nF (at 1 kHz)
Nominal voltage, cable	$\leq 100 \text{ V}$
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	$\leq 100 \text{ N}$
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)

# SAC-2P-M12MSB/ 4,0-915/M12FSB - Bus system cable

1404869

<https://www.phoenixcontact.com/us/products/1404869>

## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

# SAC-2P-M12MSB/ 4,0-915/M12FSB - Bus system cable

1404869

<https://www.phoenixcontact.com/us/products/1404869>

Schematic diagram



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

# SAC-2P-M12MSB/ 4,0-915/M12FSB - Bus system cable

1404869

<https://www.phoenixcontact.com/us/products/1404869>

Schematic diagram



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

Circuit diagram



# SAC-2P-M12MSB/ 4,0-915/M12FSB - Bus system cable



1404869

<https://www.phoenixcontact.com/us/products/1404869>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1404869>



**EAC-RoHS**

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

# SAC-2P-M12MSB/ 4,0-915/M12FSB - Bus system cable



1404869

<https://www.phoenixcontact.com/us/products/1404869>

## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### UNSPSC

UNSPSC 21.0	26121600
-------------	----------

# SAC-2P-M12MSB/ 4,0-915/M12FSB - Bus system cable



1404869

<https://www.phoenixcontact.com/us/products/1404869>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

### 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%
-------------------------------------	----------------------------

### EF3.1 Climate Change

CO2e kg	3.821 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)