

# Bus system cable - SAC-2P-M12MSB/5-915/M12FSB VA - 1402381

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

As illustrated but with VA knurl



RoHS  
compliant

## Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	 4 046356 610834
GTIN	4046356610834

## Technical data

### Dimensions

Length of cable	5 m
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### Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
Degree of protection	IP65
	IP67
	IP68
	IP69K

### General

Rated current at 40°C	4 A
Rated voltage	48 V AC
	60 V DC
Number of positions	2
Color handle area	black
Insulation resistance	≥ 100 MΩ
Coding	B - inverse

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## Technical data

### General

Signal type/category	PROFIBUS
Status display	No
Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)

### Material

Flammability rating according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Stainless steel
Sealing material	NBR

### Pin assignment

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

### Standards and Regulations

Flammability rating according to UL 94	V0
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### Cable

Cable type	PROFIBUS
Cable type (abbreviation)	915
Cable structure	1x2xAWG24/19
Conductor cross section	2x 0.25 mm <sup>2</sup>
AWG signal line	24
Conductor structure signal line	19x 0.14 mm
Core diameter including insulation	2.56 mm
Wire colors	Red, green
Overall twist	2 wires, twisted
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	70 %
External sheath, color	blue
Outer sheath thickness	approx. 0.8 mm
External cable diameter D	8 mm ±0.4 mm
Minimum bending radius, flexible installation	5 x D
Number of bending cycles	3000000
Bending radius	60 mm
Acceleration	4 m/s <sup>2</sup>
Cable weight	74 kg/km

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### Technical data

#### Cable

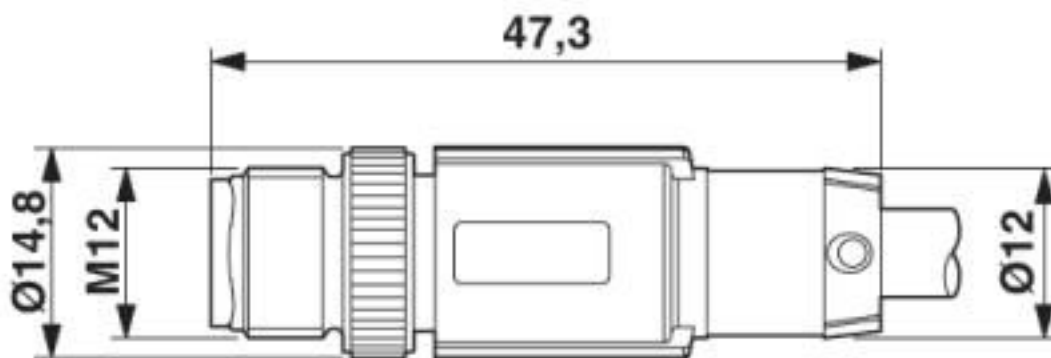
Tensile strength GRP	≤ 100 N
Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	Foamed PE
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 16 GΩ*km
Working capacitance	28 nF (at 1 kHz)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	3600 V DC
Flame 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 Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

### Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

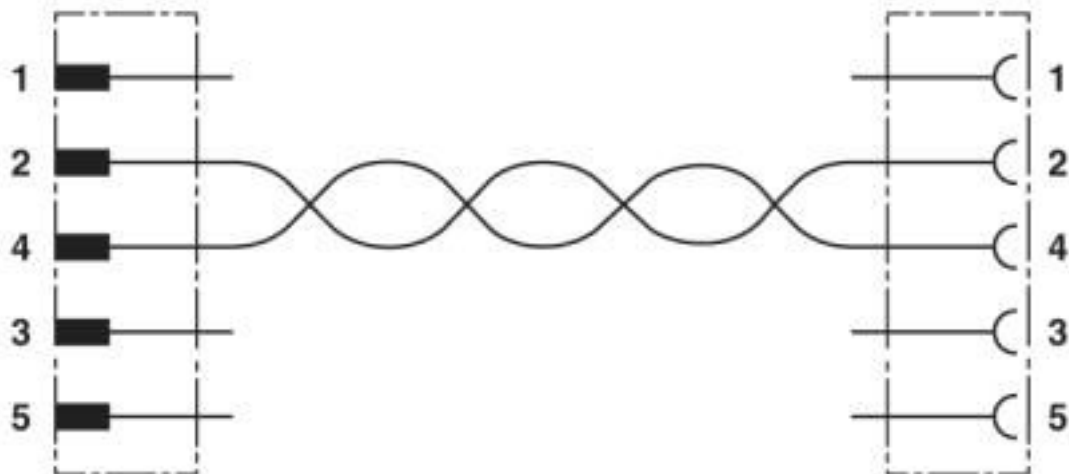
# Bus system cable - SAC-2P-M12MSB/5-915/M12FSB VA - 1402381

Dimensional drawing



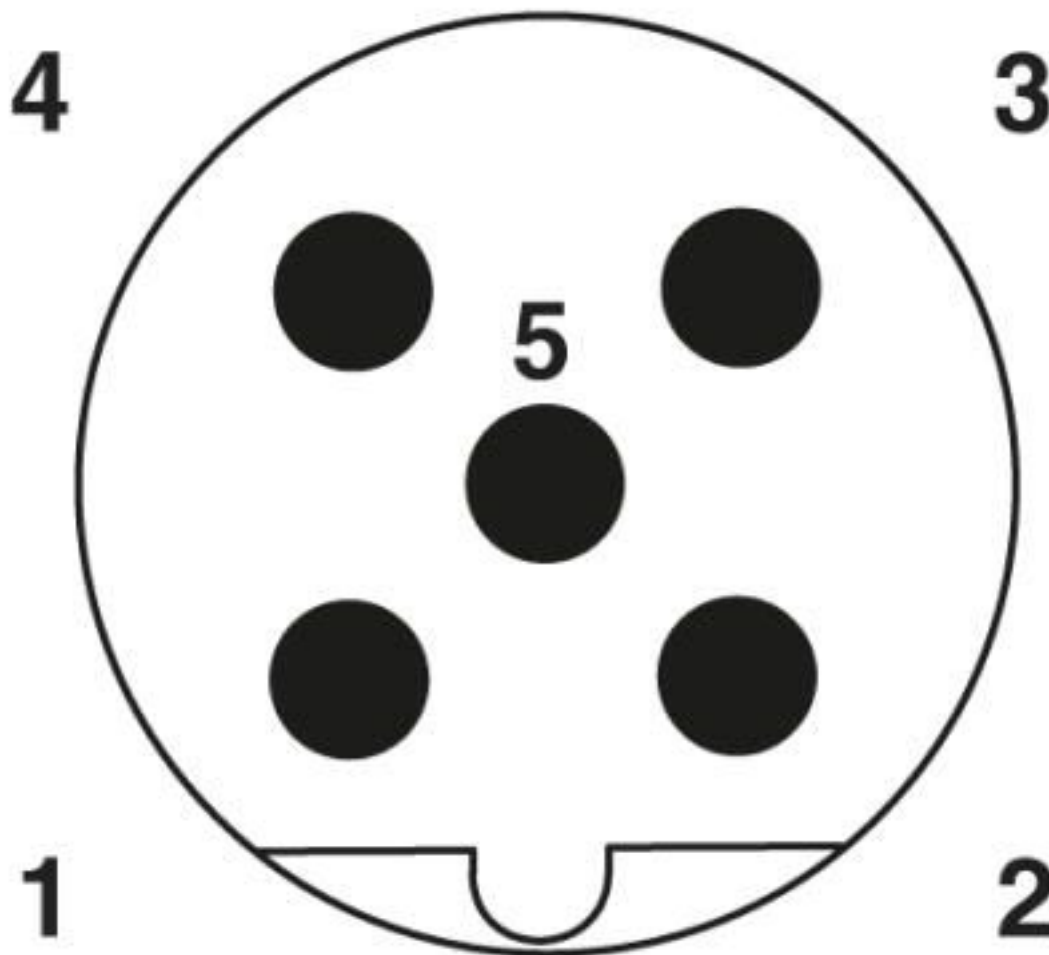
M12 x 1 socket, straight, shielded

Circuit diagram



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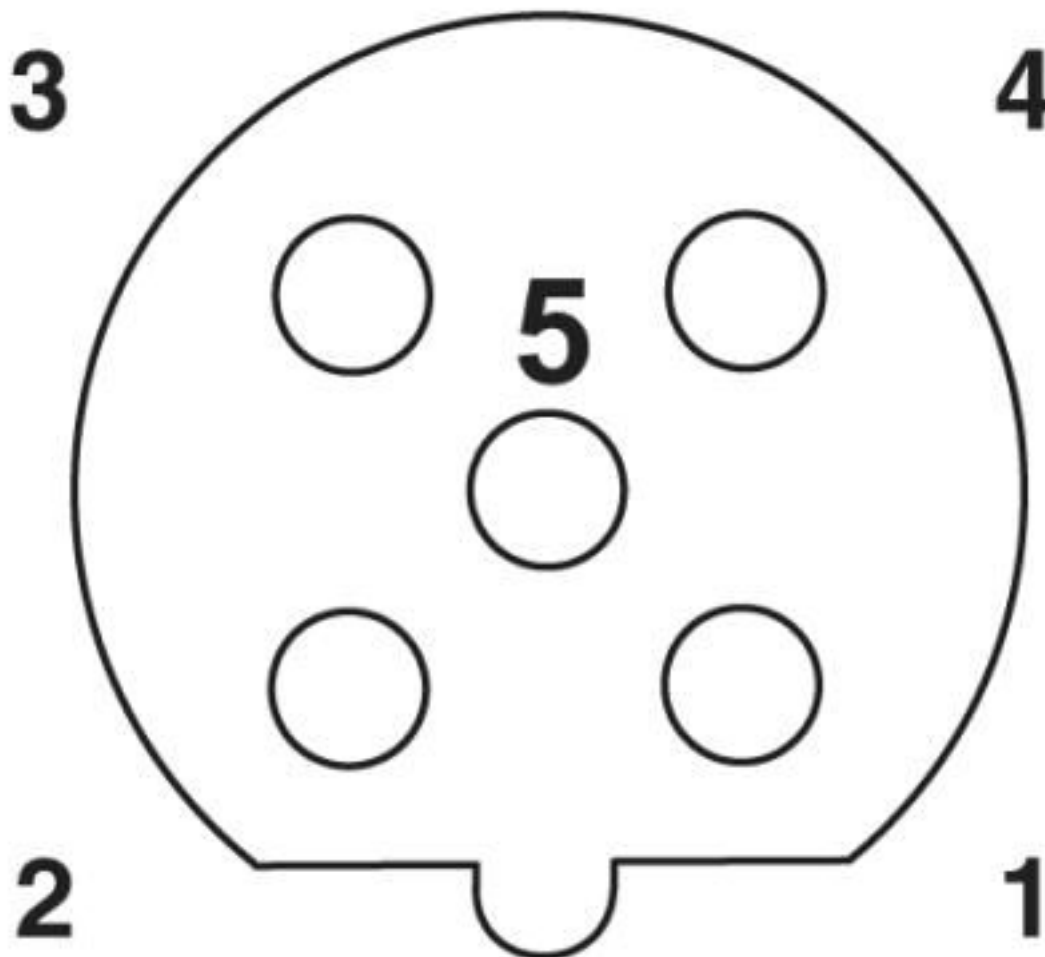
Schematic diagram



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

# Bus system cable - SAC-2P-M12MSB/5-915/M12FSB VA - 1402381

Schematic diagram



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

## Classifications

eCl@ss

eCl@ss 10.0.1	27060311
eCl@ss 4.0	27060300
eCl@ss 4.1	27060300
eCl@ss 5.0	27061800
eCl@ss 5.1	27061800
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

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## Classifications

### ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855
ETIM 6.0	EC001855
ETIM 7.0	EC001855

### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501
UNSPSC 19.0	31251501
UNSPSC 20.0	31251501
UNSPSC 21.0	31251501

## Approvals

### Approvals

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Approvals

EAC-RoHS / EAC

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Ex Approvals

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### Approval details

EAC-RoHS		RU D- DE.HB35.B.00385
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EAC		RU C- DE.BL08.B.00286
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PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>



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