

1507272

https://www.phoenixcontact.com/us/products/1507272

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Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12, coding: B, on free cable end, cable length: 15 m

Commercial data

Item number	1507272
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF04
Product key	BF1CKC
Catalog page	Page 429 (C-2-2019)
GTIN	4017918900113
Weight per piece (including packing)	893.6 g
Weight per piece (excluding packing)	884 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Notes

General	Further products with variable cable lengths can be found in the
	accessories section

Product properties

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

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	≥ 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

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



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Connection data

Pin assignment

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

Connector

Connection 1

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

Connection 2

_		
Type	free cable end	
Type		

Cable/line

Cable length	15 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 mm² (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



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Overall twist	2 cores with 2 fillers to the core
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
Max. bending cycles	4000000
	5000000
Shield attenuation	≤ 0.049 dB/m (at 16 MHz)
alogen-free	in accordance with DIN VDE 0472 part 815
	according to IEC 60754-1
lame resistance	UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1)
	UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)
	IEC 60332-1-2
Other resistance	Low adhesion
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-30 °C 70 °C (Cable, flexible installation)
	-20 °C 60 °C (for installation)
	-20 °C 60 °C (cable, drag chain applications)

Environmental and real-life conditions

Ambient conditions

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

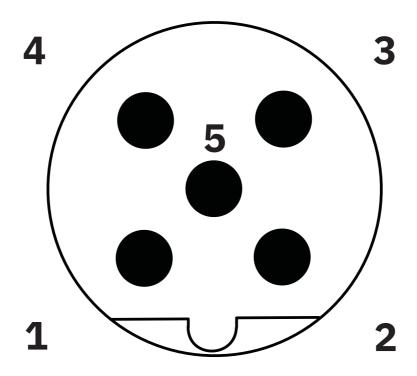


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Drawings





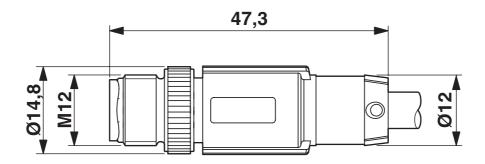
Pin assignment M12 male connector, 5-pos., B-coded, male side



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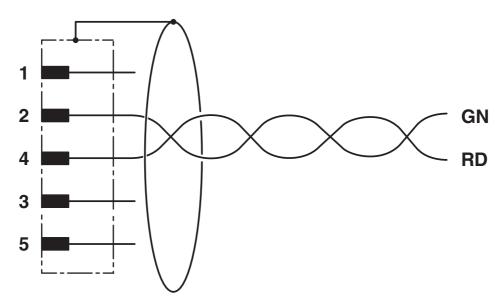
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Dimensional drawing



Plug, M12 x 1, straight, shielded

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1507272

<u> </u>	UL Listed Approval ID: FILE E 221474				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		300 V	4 A	-	-

• <u>®</u>	cUL Listed Approval ID: FILE E 22147	4			
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		300 V	4 A	-	-

EHC	EAC-RoHS
LIIL	Approval ID: RU D-DE.HB35.B.00387

cULus Listed



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Classifications

ECLASS

	ECLASS-11.0	27060307	
	ECLASS-12.0	27060307	
	ECLASS-13.0	27060307	
ETIM			
	ETIM 9.0	EC001855	
UNSPSC			
	UNSPSC 21.0	26121600	



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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%			



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Accessories

SAC-2P-M12MSB/910/... - Bus system cable

1538047

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Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12, coding: B, on free cable end, cable length: Free input (0.2 ... 40.0 m)

SAC-2P-M12MSB-M12FSB/910/... - Bus system cable

1538089

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Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: Free input (0.2 ... 40.0 m)



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SAC-2P-M12FSB/910/... - Bus system cable

1538063

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Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, red lilac RAL 4001, shielded, free cable end, on Socket straight M12, coding: B, cable length: Free input (0.2 ... 40.0 m)

PROT-M12 FS-PA-CHAIN - Sealing cap

1430873

https://www.phoenixcontact.com/us/products/1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs





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SAC-M12-EXCLIP-M - Locking clip

1558988

https://www.phoenixcontact.com/us/products/1558988



Locking clip for the pin side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools

WP-CTA POM 13,0 BK - Protective hose adapter

1422884

https://www.phoenixcontact.com/us/products/1422884



Protective hose adapter, for corrugated hoses with a nominal size of 13 (10 \times 13), corrugated in parallel



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WP-PA HF 13,0 BK - Protective hose

3240681

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Protective hose, material: PA 6, UV-resistant: yes, flexible, degree of protection: IP68, color: black, flammability rating in acc. with UL 94: V0, inner diameter: 10 mm, Total length: 50 m

WP-PA HF-HB 13,0 BK - Protective hose

3240839

https://www.phoenixcontact.com/us/products/3240839



Protective hose, material: PA 6, UV-resistant: yes, flexible, degree of protection: IP68, color: black, flammability rating in acc. with UL 94: HB, inner diameter: 10 mm, Total length: 50 m



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SACC-M12FSB-2PL SH PB - Data connector

1424680

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Data connector, PROFIBUS DP (12 Mbps), 2-position, shielded, Socket straight M12, coding: B, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

SACC-M12MSB-2PL SH PB - Data connector

1424678

https://www.phoenixcontact.com/us/products/1424678



Data connector, PROFIBUS DP (12 Mbps), 2-position, shielded, Plug straight M12, coding: B, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm



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SACC-M12FRB-2PL SH PB - Data connector

1424681

https://www.phoenixcontact.com/us/products/1424681



Data connector, PROFIBUS DP (12 Mbps), 2-position, shielded, Socket angled M12, coding: B, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

SACC-M12MRB-2PL SH PB - Data connector

1424679

https://www.phoenixcontact.com/us/products/1424679



Data connector, PROFIBUS DP (12 Mbps), 2-position, shielded, Plug angled M12, coding: B, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm



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SACC-M12FSB-2QO SH PB - Data connector

1413932

https://www.phoenixcontact.com/us/products/1413932



Data connector, PROFIBUS (12 Mbps), 2-position, halogen-free, shielded, Socket straight M12, coding: B, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

SACC-M12MSB-2QO SH PB - Data connector

1413931

https://www.phoenixcontact.com/us/products/1413931



Data connector, PROFIBUS (12 Mbps), 2-position, halogen-free, shielded, Plug straight M12, coding: B, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm



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SACC-M12FSB-5CON-PG9 SH AU - Data connector

1507777

https://www.phoenixcontact.com/us/products/1507777



Data connector, PROFIBUS, INTERBUS, 5-position, shielded, Socket straight M12, coding: B, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6.5 mm ... 8.5 mm

SACC-M12MSB-5CON-PG9 SH AU - Data connector

1507764

https://www.phoenixcontact.com/us/products/1507764



Data connector, PROFIBUS, INTERBUS, 5-position, shielded, Plug straight M12, coding: B, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6.5 mm ... 8.5 mm



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SACC-M12FRB-5CON-PG 9-SH - Data connector

1430420

https://www.phoenixcontact.com/us/products/1430420



Data connector, PROFIBUS, INTERBUS, 5-position, shielded, Socket angled M12, coding: B, Screw connection, knurl material: Brass, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm

SACC-M12MRB-5CON-PG 9-SH - Data connector

1430417

https://www.phoenixcontact.com/us/products/1430417



Data connector, PROFIBUS, INTERBUS, 5-position, shielded, Plug angled M12, coding: B, Screw connection, knurl material: Brass, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm



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SAC-5PT-FB/2XMB PBDP SH - T distributor

1424711

https://www.phoenixcontact.com/us/products/1424711



T distributor, PROFIBUS DP (12 Mbps), 5-position, shielded, Socket straight M12, coding: B, on Plug straight M12, coding: B and Plug straight M12, coding: B

SAC-5PT-FB/MB-MBF PBDP SH - T distributor

1424713

https://www.phoenixcontact.com/us/products/1424713



T distributor, PROFIBUS DP (12 Mbps), 5-position, shielded, Socket straight M12, coding: B, on Plug straight M12, coding: B and Plug straight M12, coding: B, Fixed M12 thread on plug input



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SAC-5P-M12MS PB TR - Termination resistor

1507803

https://www.phoenixcontact.com/us/products/1507803



Terminating resistor PROFIBUS M12

TSD 04 SAC - Torque screwdriver

1208429

https://www.phoenixcontact.com/us/products/1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors



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TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/us/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/us/products/1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits



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SAC BIT M12-D15 - Tool

1208432

https://www.phoenixcontact.com/us/products/1208432



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

CUTFOX 12 - Cable-cutting tool

1212128

https://www.phoenixcontact.com/us/products/1212128



Cable cutter, for copper and aluminum up to 12 mm diameter (up to 35 mm²)



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CUTFOX-S VDE - Diagonal cutter

1212207

https://www.phoenixcontact.com/us/products/1212207



Diagonal cutter for hard (piano wire) and soft wires, VDE 1000 V AC/1500 V DC tested

VS-CABLE-STRIP-VARIO - Stripping tool

1657407

https://www.phoenixcontact.com/us/products/1657407

Stripping tool, for the multi-level stripping of shielded cables





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MICROFOX-SP-1 - Diagonal cutter

1212487

https://www.phoenixcontact.com/us/products/1212487



Electronic diagonal cutter, tapered head, without chamfer, with opening spring, non-reflective phosphate-treated surface, punched version

WIREFOX 4 - Stripping tool

1212156

https://www.phoenixcontact.com/us/products/1212156



Stripping tool, for cables and conductors (especially for rubber and silicone insulations) from 0.1 - 4 $\,\text{mm}^2$, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 $\,\text{mm}^2$ stranded/1.5 $\,\text{mm}^2$ solid, replaceable stripping blade



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WIREFOX-E 4 - Stripping tool

1212704

https://www.phoenixcontact.com/us/products/1212704



Stripping tool, for cables and conductors (especially for rubber and silicone insulations) from 0.1 - 4 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade

WIREFOX 10 - Stripping tool

1212150

https://www.phoenixcontact.com/us/products/1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade

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