# SAC-3P-M12Y/2X0,6-PUR/M12FR B - Sensor/actuator cable



#### 1669000

https://www.phoenixcontact.com/au/products/1669000

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket angled M12, coding: A, PIN 2+4 bridged and Socket angled M12, coding: A, PIN 2+4 bridged, cable length: 0.6 m

### Commercial data

Item number	1669000
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF1COA
Product key	BF1COA
Catalog page	Page 250 (C-2-2019)
GTIN	4017918136048
Weight per piece (including packing)	63 g
Weight per piece (excluding packing)	60 g
Customs tariff number	85444290
Country of origin	CN



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## Technical data

#### **Product properties**

Product type	Distributor with cable
Number of positions	3
Application	Standard
No. of cable outlets	2
Shielded	no
Coding	A
sulation characteristics	
Overvoltage category	II
Degree of pollution	3

#### Connection data

Tightening torque	0.4 Nm (M12 connector)
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#### Material specifications

Flammability rating according to UL 94	HB
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

#### **Electrical properties**

Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	250 V AC
	250 V DC
Nominal current I <sub>N</sub>	4 A

#### Mechanical properties

Mechanical data		
	Insertion/withdrawal cycles	≥ 100
Signaling		
	Status display	No
	Status display present	No

#### Connector

Connection 1	
Туре	Plug straight M12



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Coding type	A
Connection 2	
Туре	Socket angled M12
Coding type	A
Connection 3	
Туре	Socket angled M12
Coding type	A
Cable/line	
Cable length	0.6 m

#### PUR halogen-free black [PUR]

Dimensional drawing



Cable weight	23 kg/km
UL AWM Style	20549
Number of positions	3
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
•	
Conductor cross section	3x 0.34 mm² (Signal line)
Wire diameter incl. insulation	1.27 mm ±0.02 mm (Signal line)
External cable diameter	3.85 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, blue, black
Thickness, insulation	≥ 0.21 mm (Core insulation)
	approx. 0.50 mm (Outer cable sheath)
Overall twist	3 wires, twisted
Max. conductor resistance	max. 58 Ω/km (at 20 °C)
Insulation resistance	≥ 100 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Smallest bending radius, fixed installation	19 mm

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Smallest bending radius, movable installation	38 mm
Max. bending cycles	1000000
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2
	DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (Cable, flexible installation)

#### Environmental and real-life conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C 90 °C (Plug / socket)
	-40 °C 80 °C (cable, fixed installation)
	-5 °C 80 °C (Cable, flexible installation)

#### Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

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## Drawings

Schematic diagram



Pin assignment M12 Y plug, 4-pos., A-coded, view plug side





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Schematic diagram

Pin assignment M12 socket, 3-pos., PIN 2+4 bridged, A-coded, view female side

Dimensional drawing



Plug M12 x 1, Y distributor



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Dimensional drawing



M12 x 1 socket, angled

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### Approvals

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	<b>UL Listed</b> Approval ID: FILE E 221474				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		300 V	4 A	-	-
•	<b>CUL Listed</b> Approval ID: FILE E 221474	4			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		300 V	4 A	-	-
ERC	EAC-RoHS Approval ID: RU D-DE.HB3	5.B.00387			

cULus Listed

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## Classifications

#### ECLASS

ECLASS-11.0	27060313
ECLASS-12.0	27060313
ECLASS-13.0	27060313

#### ETIM

	ETIM 9.0	EC001855		
UNSPSC				
	UNSPSC 21.0	26121600		

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### Environmental product compliance

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

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