

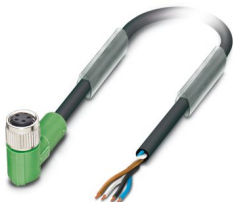
SAC-4P- 5,0-PUR/M 8FR - Sensor/actuator cable



1681897

<https://www.phoenixcontact.com/il/products/1681897>

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M8, coding: A, cable length: 5 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components

Commercial data

Item number	1681897
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	02
Product key	BF1BCA
Catalog page	Page 194 (C-2-2019)
GTIN	4017918158552
Weight per piece (including packing)	112.4 g
Weight per piece (excluding packing)	111.8 g
Customs tariff number	85444290
Country of origin	DE

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Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

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	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	No
Status display present	No

Connection data

Conductor connection

Tightening torque	0.2 Nm (M8 connectors)
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Connector

Connection 1

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Type	free cable end
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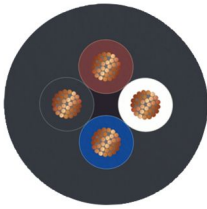
Connection 2

Type	Socket angled M8
Number of positions	4
Coding type	A

Cable/line

Cable length	5 m
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PUR halogen-free black [PUR]

Dimensional drawing		
Cable weight	23 kg/km	
UL AWM Style	20549 / 10493 (80°C/300 V)	
Number of positions	4	
Shielded	no	
Cable type	PUR halogen-free black [PUR]	
Conductor structure signal line	32x 0.10 mm	
AWG signal line	24	
Conductor cross section	4x 0.25 mm ² (Signal line)	
Wire diameter incl. insulation	1.17 mm ±0.02 mm (Signal line)	
External cable diameter	3.95 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, white, blue, black	
Thickness, insulation	≥ 0.21 mm (Core insulation)	
	approx. 0.50 mm (Outer cable sheath)	
Overall twist	4 wires, twisted	
Max. conductor resistance	max. 78 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	20 mm	
Smallest bending radius, movable installation	40 mm	
Max. bending cycles	10000000	
Halogen-free	in accordance with DIN VDE 0472 part 815	

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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

Ambient conditions

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

Standards and regulations

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

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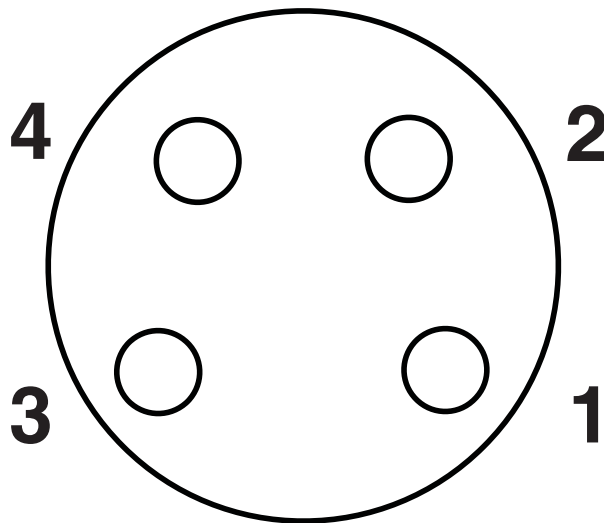
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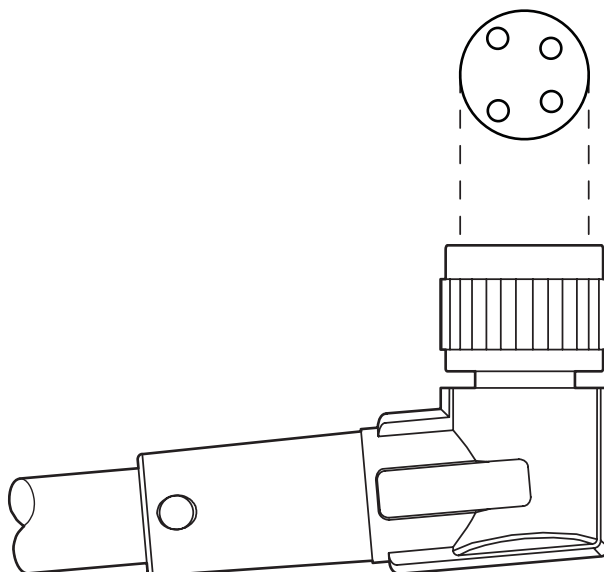
Drawings

Schematic diagram



Pin assignment M8 socket, 4-pos., view female side

Schematic diagram



Layout of connector pin assignments

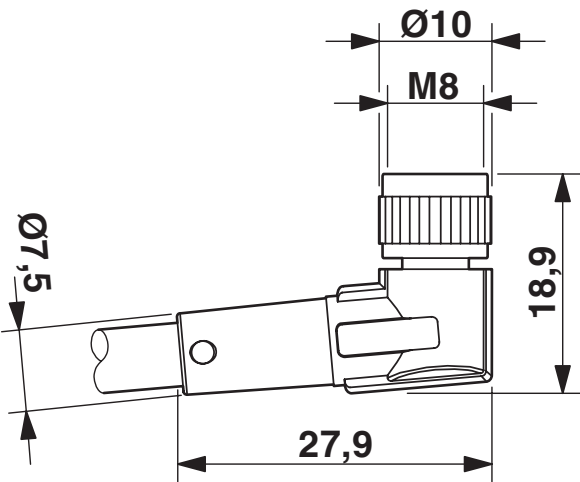
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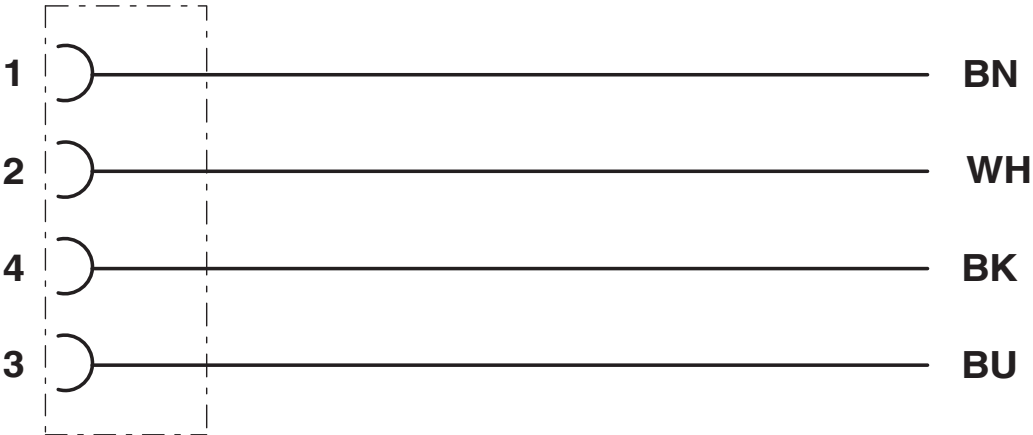
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Dimensional drawing



Socket M8 x 1, angled

Circuit diagram



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Approvals

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 UL Listed Approval ID: FILE E 221474				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	30 V	4 A	-	-

 cUL Listed Approval ID: FILE E 221474				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	30 V	4 A	-	-

 EAC-RoHS Approval ID: RU D-DE.HB35.B.00387				
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cULus Listed				
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Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

ETIM

ETIM 9.0	EC001855
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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%
EF3.0 Climate Change	
CO2e kg	0.395 kg CO2e

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