

SAC-4P-10,0-PUR/M 8FR - Sensor/actuator cable



1694172

<https://www.phoenixcontact.com/us/products/1694172>

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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: 10 m

Your advantages

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

Commercial data

Item number	1694172
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF01
Product key	AF1BCA
GTIN	4017918177171
Weight per piece (including packing)	218 g
Weight per piece (excluding packing)	183.118 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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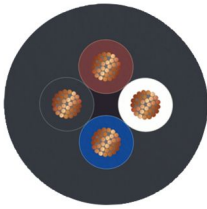
Connection 2

Type	Socket angled M8
Number of positions	4
Coding type	A

Cable/line

Cable length	10 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	
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 44 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 5	

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	m/s ²
Dynamic load capacity (torsion)	Torsion: $\pm 180^\circ/\text{m}$, Torsion cycles: ≥ 5000000 , Torsional frequency: 35 cycles/min.
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

Ambient conditions

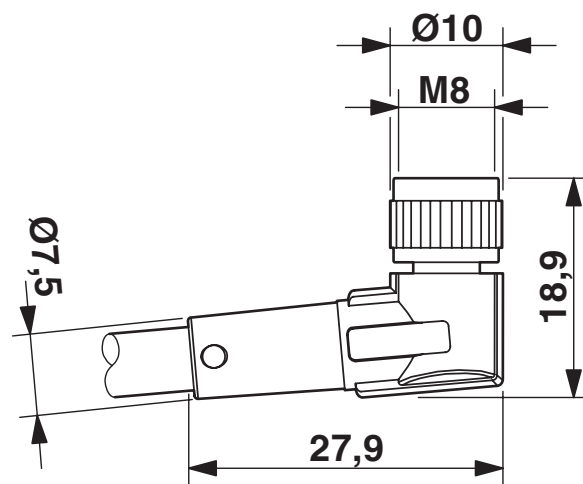
Degree of protection	IP65 IP67 IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)

Standards and regulations

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

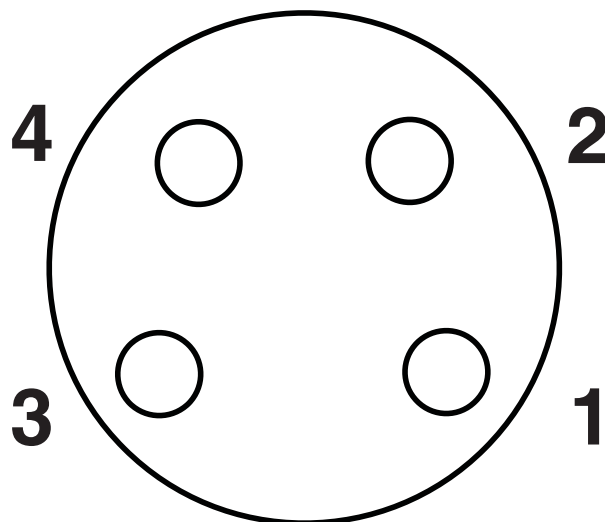
Drawings

Dimensional drawing



Socket M8 x 1, angled

Schematic diagram



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

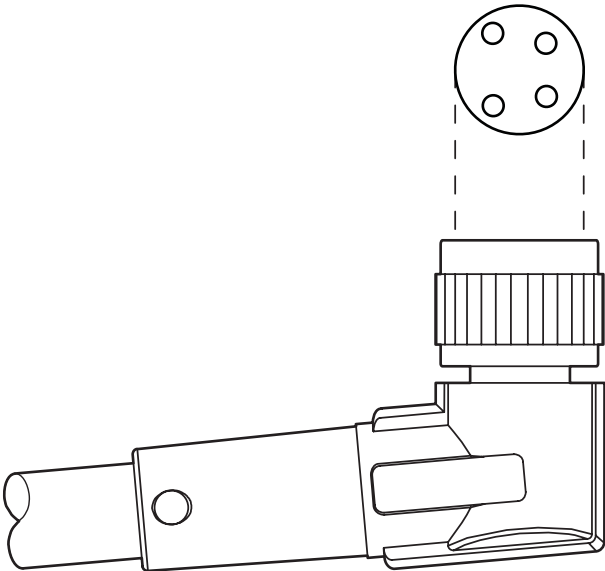
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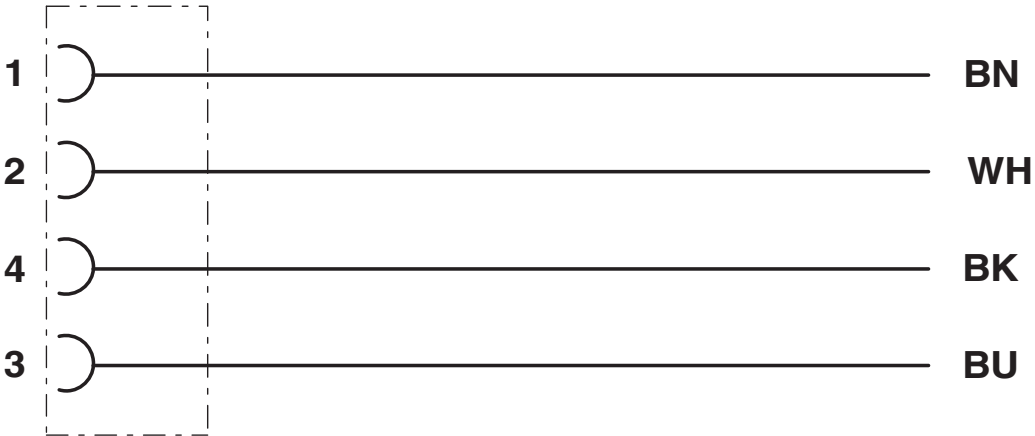
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Schematic diagram



Layout of connector pin assignments

Circuit diagram



Contact assignment of M8 socket

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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
keine				
	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
keine				
	30 V	4 A	-	-



EAC-RoHS

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

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Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 10.0	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
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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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