

SAC-3P- 3,0-300/M 8FS - Sensor/actuator cable



1504165

<https://www.phoenixcontact.com/us/products/1504165>

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Sensor/actuator cable, 3-position, PUR, black RAL 9005, free cable end, on Socket straight M8, coding: A, cable length: 3 m

Commercial data

Item number	1504165
Packing unit	5 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	AF1BBA
GTIN	4017918838812
Weight per piece (including packing)	93.87 g
Weight per piece (excluding packing)	93.87 g
Country of origin	PL

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Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	3
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

Signaling

Status display	no
Status display present	no

Connector

Connection 1

Type	free cable end
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Connection 2

Type	Socket straight M8
Number of positions	3
Coding type	A

Cable/line

Cable length	3 m
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PUR black, permanently flexible control cable [300]

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Number of positions	3
Shielded	no
Cable type	PUR black, permanently flexible control cable [300]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross-section	0.25 mm ²
External cable diameter	4.7 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, blue, black
Nominal voltage, cable	300 V
Test voltage	1500 V
Smallest bending radius, movable installation	47 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 47 mm, Traversing path: 2 m, Traversing rate: 2 m/s
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -5 °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)
	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

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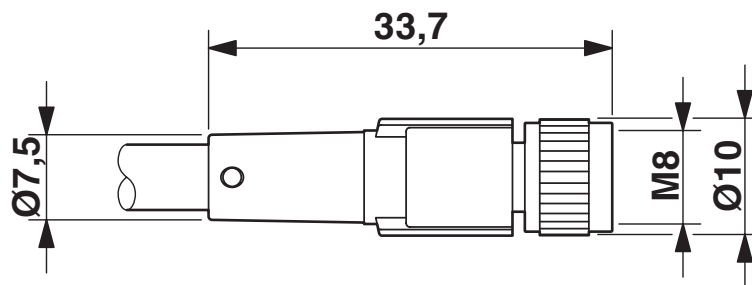
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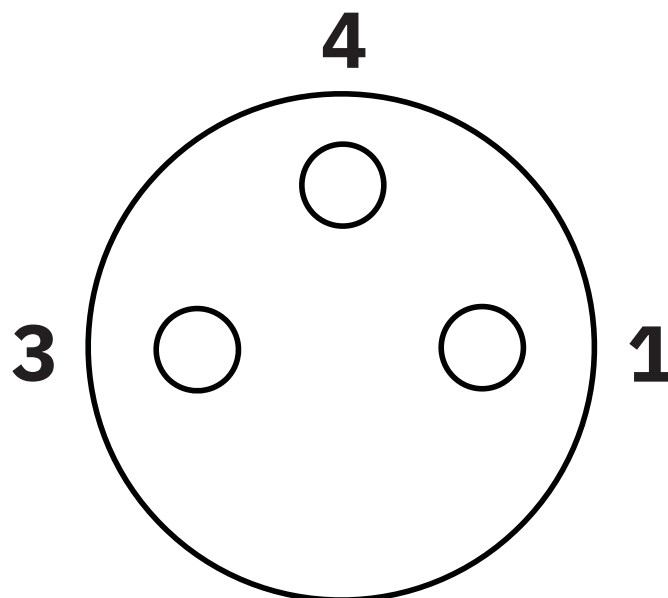
Drawings

Dimensional drawing



Socket M8 x 1, straight

Schematic diagram



Pin assignment M8 socket, 3-pos., view female side

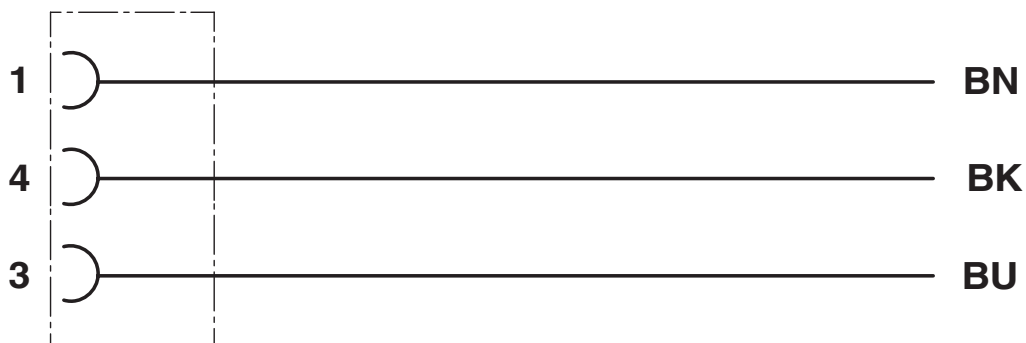
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Circuit diagram



Contact assignment of M8 socket

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1504165>

 UL Listed Approval ID: FILE E 221474				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	60 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				
	60 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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