

SAC-3P-10,0-PUR/M 8FR SH - Sensor/actuator cable



1521795

<https://www.phoenixcontact.com/be/products/1521795>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 3-position halogen-free, shielded, free cable end, on Socket angled M8, coding: A, cable length: 10 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1521795
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF1BIA
Product key	BF1BIA
Catalog page	Page 193 (C-2-2019)
GTIN	4017918968786
Weight per piece (including packing)	275,1 g
Weight per piece (excluding packing)	271 g
Customs tariff number	85444290
Country of origin	PL

SAC-3P-10,0-PUR/M 8FR SH - Sensor/actuator cable



1521795

<https://www.phoenixcontact.com/be/products/1521795>

Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	3
Application	Standard
No. of cable outlets	1
Shielded	yes
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

Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A
Protective circuit	unwired

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
-----------------------------	------------

Signaling

Status display	No
Status display present	No

Connection data

Conductor connection

Tightening torque	0.2 Nm (M8 connectors)
-------------------	------------------------

SAC-3P-10,0-PUR/M 8FR SH - Sensor/actuator cable



1521795

<https://www.phoenixcontact.com/be/products/1521795>

Connector

Connection 1

Type	free cable end
------	----------------

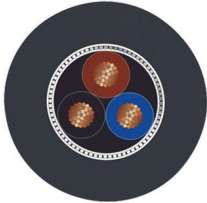
Connection 2

Type	Socket angled M8
Number of positions	3
Coding type	A

Cable/line

Cable length	10 m
--------------	------

PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	26 kg/km
UL AWM Style	20549
Number of positions	3
Shielded	yes
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	3x 0.25 mm ² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm (Signal line)
External cable diameter	4.35 mm ±0.2 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) ≥ 0.5 mm (Outer cable sheath)
Overall twist	3 wires, twisted
Optical shield covering	80 %
Max. conductor resistance	max. 79 Ω/km
Insulation resistance	≥ 100 GΩ*km
Nominal voltage, cable	300 V

SAC-3P-10,0-PUR/M 8FR SH - Sensor/actuator cable



1521795

<https://www.phoenixcontact.com/be/products/1521795>

Test voltage	3000 V
Smallest bending radius, fixed installation	22 mm
Smallest bending radius, movable installation	44 mm
Max. bending cycles	10000000
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
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket) -25 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

Standards and regulations

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

SAC-3P-10,0-PUR/M 8FR SH - Sensor/actuator cable

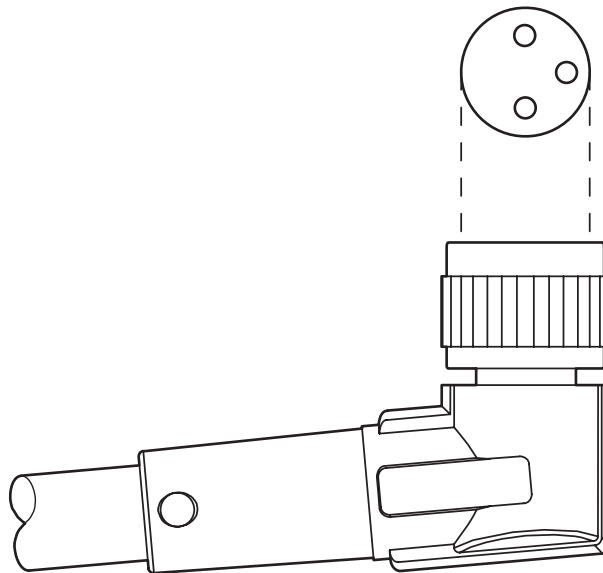
1521795

<https://www.phoenixcontact.com/be/products/1521795>



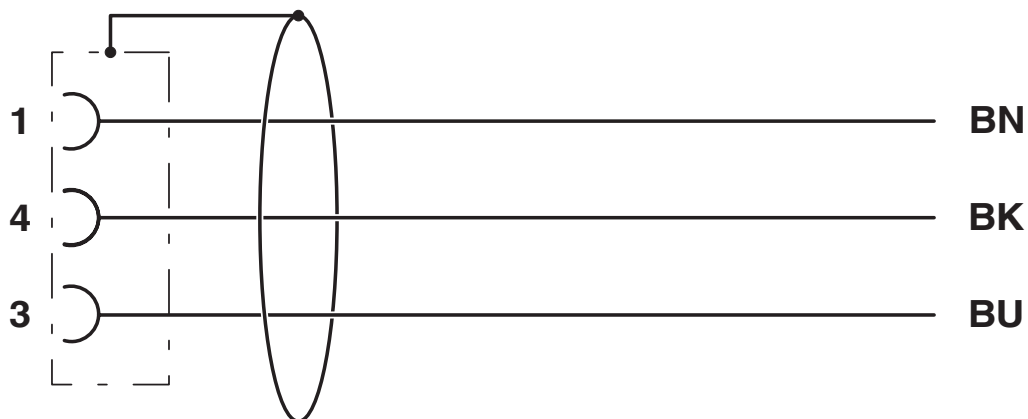
Drawings

Schematic diagram

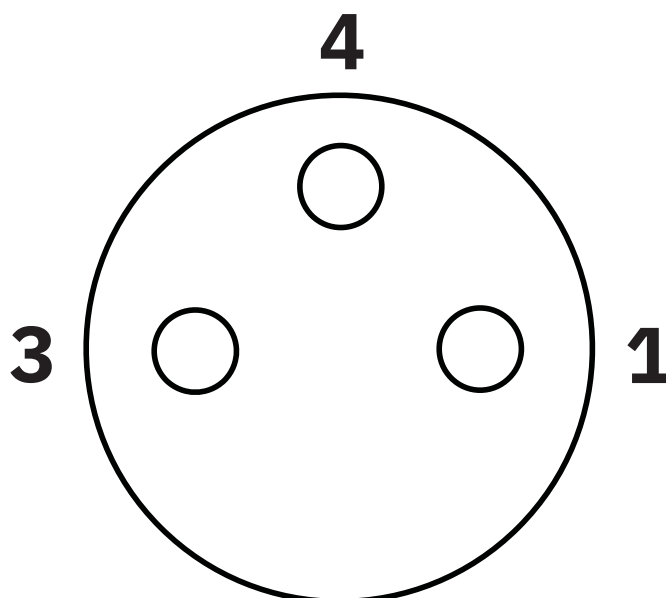


Layout of connector pin assignments

Circuit diagram



Schematic diagram

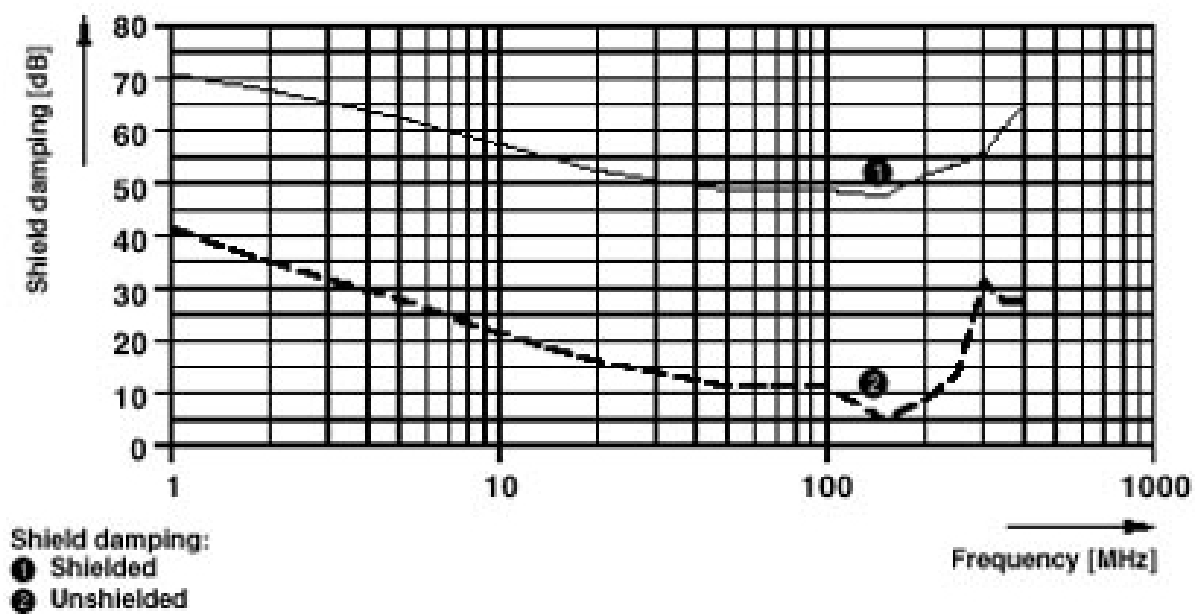


Pin assignment M8 socket, 3-pos., view female side

1521795

<https://www.phoenixcontact.com/be/products/1521795>

Diagram



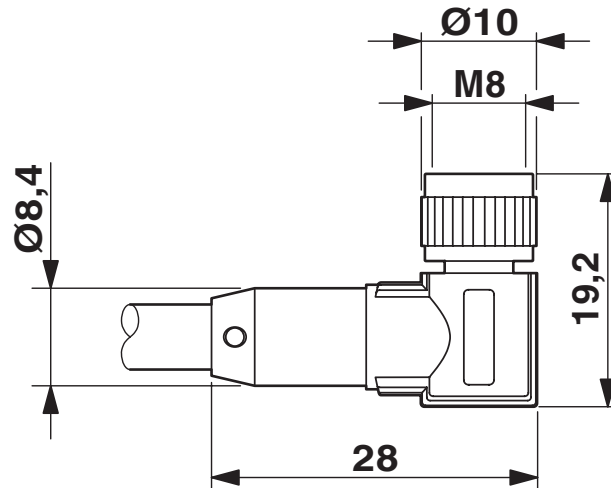
SAC-3P-10,0-PUR/M 8FR SH - Sensor/actuator cable

1521795

<https://www.phoenixcontact.com/be/products/1521795>



Dimensional drawing



Socket M8 x 1, angled, shielded

SAC-3P-10,0-PUR/M 8FR SH - Sensor/actuator cable



1521795

<https://www.phoenixcontact.com/be/products/1521795>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/be/products/1521795>

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

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

cULus Listed

SAC-3P-10,0-PUR/M 8FR SH - Sensor/actuator cable



1521795

<https://www.phoenixcontact.com/be/products/1521795>

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001855
----------	----------

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

SAC-3P-10,0-PUR/M 8FR SH - Sensor/actuator cable



1521795

<https://www.phoenixcontact.com/be/products/1521795>

Environmental product compliance

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

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT nv/sa
Minervastraat 10-12
1930 Zaventem-Keiberg II
+32 (0)2/723 98 11
info@phoenixcontact.be