

SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable



1458664

<https://www.phoenixcontact.com/us/products/1458664>

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, PUR halogen-free, black-gray RAL 7021, Plug straight M8, coding: A, on Socket straight M8 and Socket straight M8, cable length: 0.3 m

Commercial data

Item number	1458664
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF01
Product key	BF1BOA
Catalog page	Page 248 (C-2-2019)
GTIN	4046356638012
Weight per piece (including packing)	26.5 g
Weight per piece (excluding packing)	26.5 g
Customs tariff number	85444290
Country of origin	PL

SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable



1458664

<https://www.phoenixcontact.com/us/products/1458664>

Technical data

Product properties

Product type	Distributor with cable
Application	Standard
Number of positions	3
No. of cable outlets	2
Shielded	no
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Connection data

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

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	Plug straight M8
Coding type	A

Connection 2

Type	Socket straight M8
------	--------------------

Connection 3

SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable



1458664

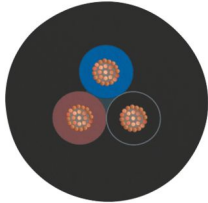
<https://www.phoenixcontact.com/us/products/1458664>

Type	Socket straight M8
------	--------------------

Cable/line

Cable length	0.3 m
--------------	-------

PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	18 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	3
Shielded	no
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 mm² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	3.60 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)
Thickness, outer sheath	approx. 0.50 mm
Overall twist	3 wires, twisted
Length of twist, overall twist	40 mm
Max. conductor resistance	≤ 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	18 mm
Smallest bending radius, movable installation	36 mm
Max. bending cycles	10000000
Bending radius	44 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s²

SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable



1458664

<https://www.phoenixcontact.com/us/products/1458664>

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	hydrolysis and microbe resistant
	Highly resistant to acids, alkaline solutions and solvents
	Resistant to salt water
	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

M8

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

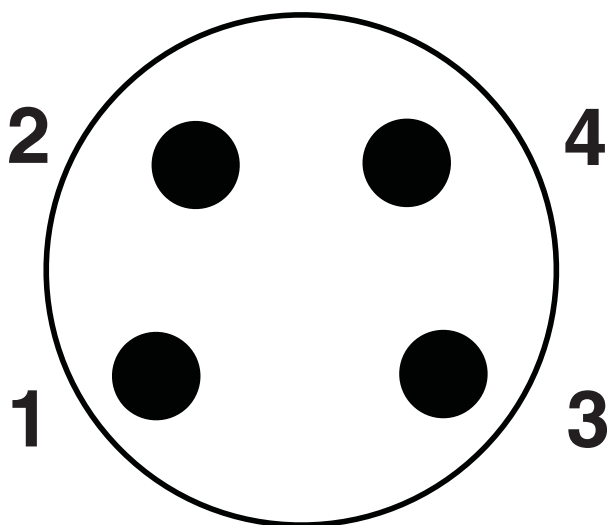
SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable

1458664

<https://www.phoenixcontact.com/us/products/1458664>

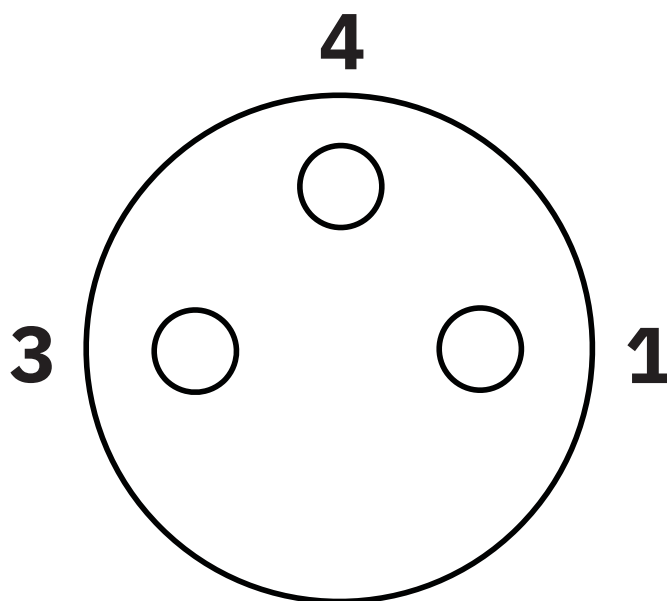
Drawings

Schematic diagram



Pin assignment M8 plug, 4-pos., view male side

Schematic diagram



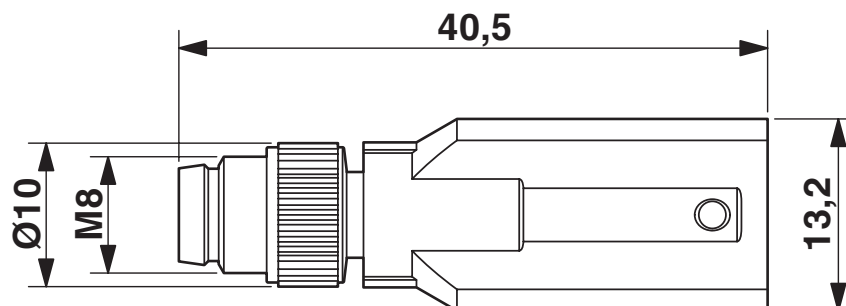
Pin assignment M8 socket, 3-pos., view female side

SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable

1458664

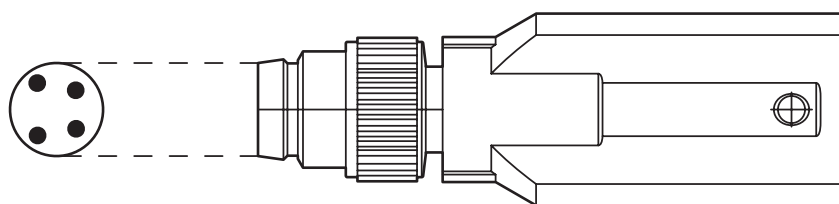
<https://www.phoenixcontact.com/us/products/1458664>

Dimensional drawing



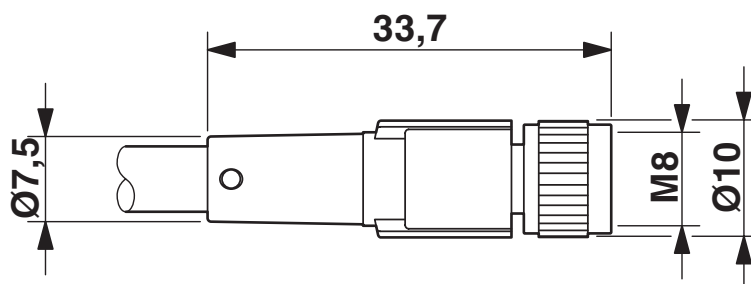
Plug M8 x 1, Y-distributor

Schematic diagram



Alignment of the connector pin assignment

Dimensional drawing



Socket M8 x 1, straight

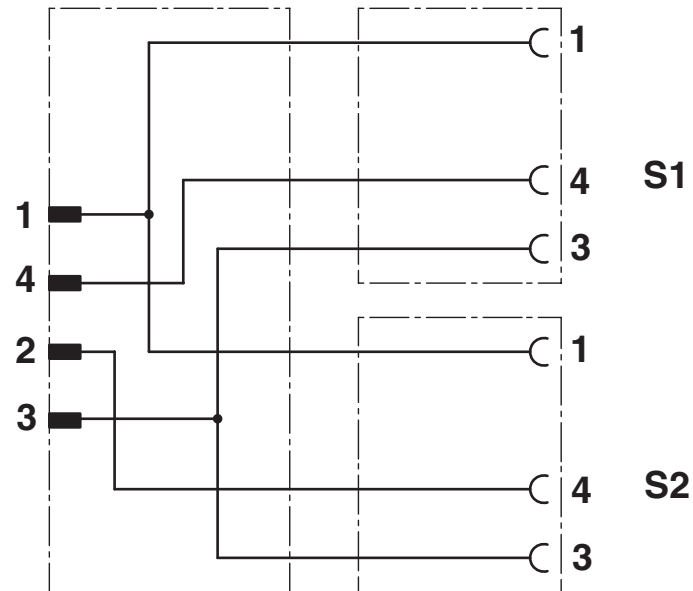
SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable



1458664

<https://www.phoenixcontact.com/us/products/1458664>

Circuit diagram




SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable





1458664
<https://www.phoenixcontact.com/us/products/1458664>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1458664>

 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-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable



1458664
<https://www.phoenixcontact.com/us/products/1458664>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable



1458664
<https://www.phoenixcontact.com/us/products/1458664>

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%

SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable



1458664

<https://www.phoenixcontact.com/us/products/1458664>

Accessories

PROT-M8 - Screw plug

1682540

<https://www.phoenixcontact.com/us/products/1682540>



An M8 screw plug for the unoccupied M8 sockets of the sensor/actuator cable, boxes and flush-type connectors

PABA WH/15 - Insert label

1013151

<https://www.phoenixcontact.com/us/products/1013151>



Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: slide-on, cable diameter range: 0.6 ... 50 mm, lettering field size: 15 x 4 mm, Number of individual labels: 20

SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable



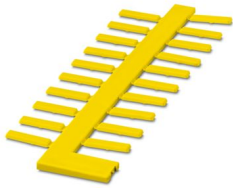
1458664

<https://www.phoenixcontact.com/us/products/1458664>

PABA YE/15 - Insert label

1013698

<https://www.phoenixcontact.com/us/products/1013698>



Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: slide-on, cable diameter range: 0.6 ... 50 mm, lettering field size: 15 x 4 mm, Number of individual labels: 20

PABA RD/15 - Insert label

1013944

<https://www.phoenixcontact.com/us/products/1013944>



Insert label, Strip, red, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: slide-on, cable diameter range: 0.6 ... 50 mm, lettering field size: 15 x 4 mm, Number of individual labels: 20

SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable



1458664

<https://www.phoenixcontact.com/us/products/1458664>

PABA WH/15 CUS - Cable marker

0824444

<https://www.phoenixcontact.com/us/products/0824444>

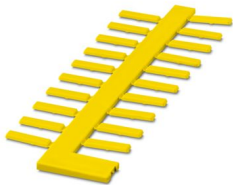


Cable marker, can be ordered: Strip, white, labeled according to customer specifications, mounting type: thread on, cable diameter range: 0.6 ... 50 mm, lettering field size: 15 x 4 mm

PABA YE/15 CUS - Cable marker

0824447

<https://www.phoenixcontact.com/us/products/0824447>



Cable marker, can be ordered: Strip, yellow, labeled according to customer specifications, mounting type: thread on, cable diameter range: 0.6 ... 50 mm, lettering field size: 15 x 4 mm

SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable



1458664

<https://www.phoenixcontact.com/us/products/1458664>

PABA RD/15 CUS - Cable marker

0824442

<https://www.phoenixcontact.com/us/products/0824442>

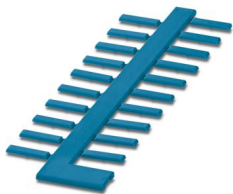


Cable marker, can be ordered: Strip, red, labeled according to customer specifications, mounting type: thread on, cable diameter range: 0.6 ... 50 mm, lettering field size: 15 x 4 mm

PABA BU/15 CUS - Cable marker

0824441

<https://www.phoenixcontact.com/us/products/0824441>



Cable marker, can be ordered: Strip, blue, labeled according to customer specifications, mounting type: thread on, cable diameter range: 0.6 ... 50 mm, lettering field size: 15 x 4 mm

SAC-3P-M8Y/2X0,3-PUR/M 8FS - Sensor/actuator cable



1458664

<https://www.phoenixcontact.com/us/products/1458664>

TSD 02 SAC - Torque screwdriver

1208487

<https://www.phoenixcontact.com/us/products/1208487>



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

SAC BIT M8-D10 - Tool

1208461

<https://www.phoenixcontact.com/us/products/1208461>



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 10 mm, for 4 mm hexagonal drive

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

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com