chanhvinh.com

SAC-3P-M 8MS/ 0,3-PUR/M 8FS SH - Sensor/actuator cable

1456310

https://www.phoenixcontact.com/gb/products/1456310

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, shielded, Plug straight M8, coding: A, on Socket straight M8, coding: A, cable length: 0.3 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	1456310
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF1BIA
Product key	BF1BIA
Catalog page	Page 193 (C-2-2019)
GTIN	4046356585132
Weight per piece (including packing)	21.8 g
Weight per piece (excluding packing)	21.2 g
Customs tariff number	85444290
Country of origin	PL

chanhvinh.com

SAC-3P-M 8MS/ 0,3-PUR/M 8FS SH - Sensor/actuator cable

1456310

https://www.phoenixcontact.com/gb/products/1456310

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	3
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

Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Signaling

Status display	no
Status display present	No

Connector

Connection 1

Type	Plug straight M8
Number of positions	3
Coding type	A

Connection 2

chanhvinh.com

SAC-3P-M 8MS/ 0,3-PUR/M 8FS SH - Sensor/actuator cable

1456310

https://www.phoenixcontact.com/gb/products/1456310

Type	Socket straight M8
Number of positions	3
Coding type	A

Cable/line

Cable length	0.3 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 mm² (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) ≥ 0.50 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
Test voltage	3000 V
Smallest bending radius, fixed installation	22 mm
Smallest bending radius, movable installation	44 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 50 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Halogen-free	in accordance with DIN VDE 0472 part 815

chanhvinh.com

SAC-3P-M 8MS/ 0,3-PUR/M 8FS SH - Sensor/actuator cable

1456310

https://www.phoenixcontact.com/gb/products/1456310

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)

Standards and regulations

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

chanhvinh.com

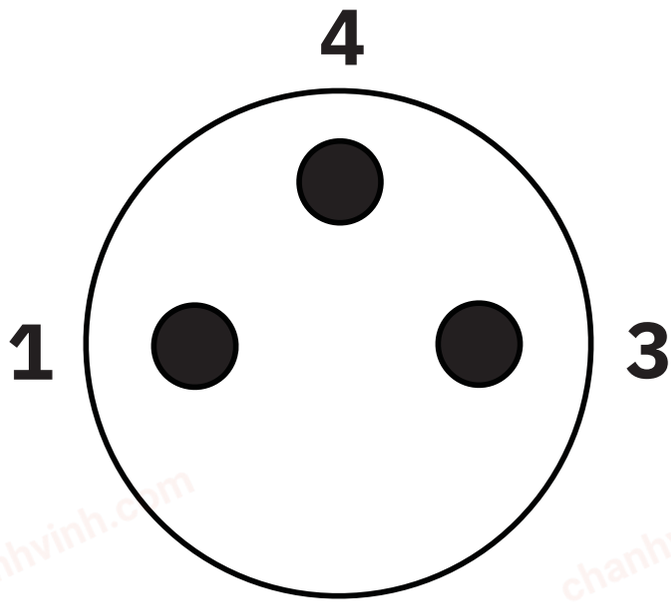
SAC-3P-M 8MS/ 0,3-PUR/M 8FS SH - Sensor/actuator cable

1456310

https://www.phoenixcontact.com/gb/products/1456310

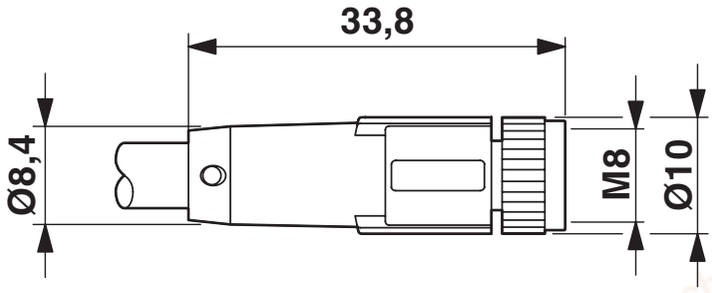
Drawings

Schematic diagram



Pin assignment M8 plug, 3-pos., view male side

Dimensional drawing



Socket M8 x 1, straight, shielded

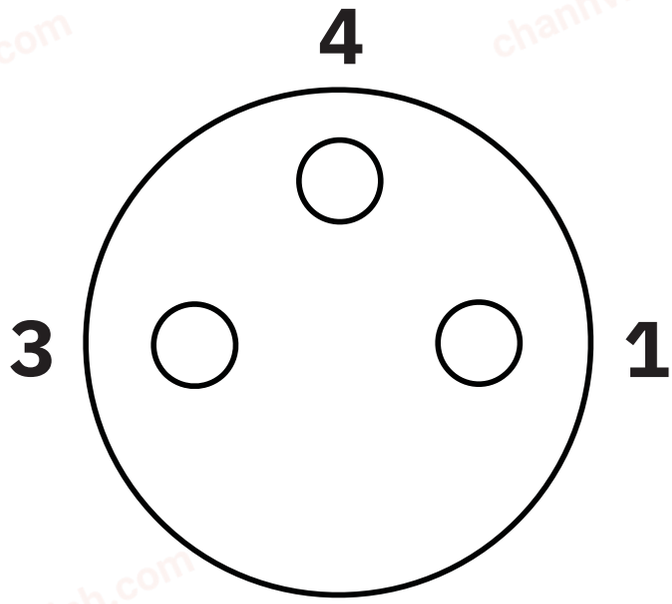
chanhvinh.com

SAC-3P-M 8MS/ 0,3-PUR/M 8FS SH - Sensor/actuator cable

1456310

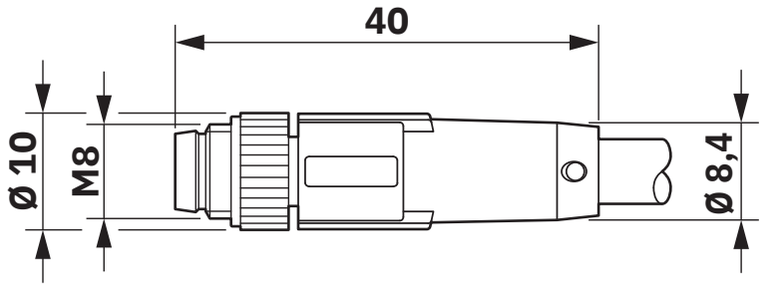
https://www.phoenixcontact.com/gb/products/1456310

Schematic diagram



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

Dimensional drawing



Plug M8 x 1, straight, shielded

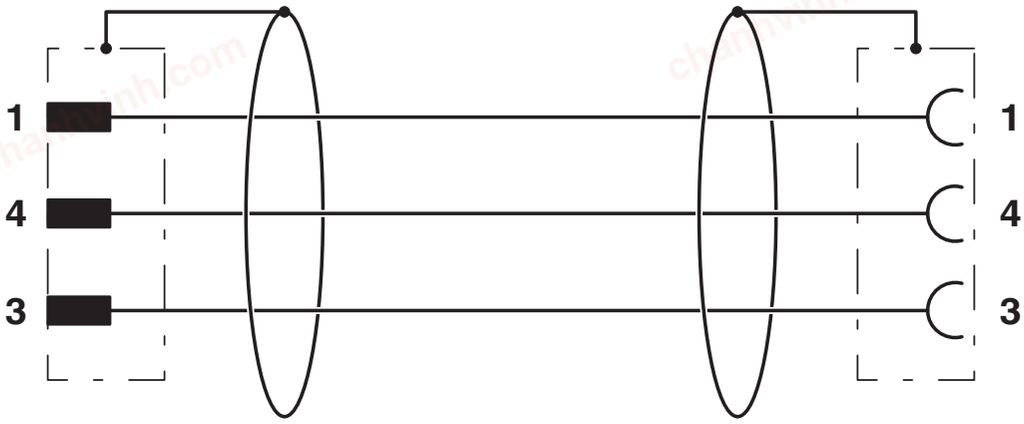
chanhvinh.com

SAC-3P-M 8MS/ 0,3-PUR/M 8FS SH - Sensor/actuator cable

1456310

https://www.phoenixcontact.com/gb/products/1456310

Circuit diagram



chanhvinh.com

SAC-3P-M 8MS/ 0,3-PUR/M 8FS SH - Sensor/actuator cable

1456310

https://www.phoenixcontact.com/gb/products/1456310

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1456310

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

chanhvinh.com

SAC-3P-M 8MS/ 0,3-PUR/M 8FS SH - Sensor/actuator cable

1456310

https://www.phoenixcontact.com/gb/products/1456310

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

chanhvinh.com

SAC-3P-M 8MS/ 0,3-PUR/M 8FS SH - Sensor/actuator cable

1456310

https://www.phoenixcontact.com/gb/products/1456310

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	0.358 kg CO2e

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

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk