chanhvinh.com

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

1415884

https://www.phoenixcontact.com/gb/products/1415884

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, PVC, black RAL 9005, Plug angled M8, coding: A, on Socket straight M8, coding: A, cable length: 3 m

Your advantages

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

Commercial data

Item number	1415884
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF1BBA
Product key	BF1BBA
Catalog page	Page 190 (C-2-2019)
GTIN	4055626054551
Weight per piece (including packing)	87.4 g
Weight per piece (excluding packing)	80 g
Customs tariff number	85444290
Country of origin	DE

chanhvinh.com

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

1415884

https://www.phoenixcontact.com/gb/products/1415884

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
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	≥ 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 angled M8
Number of positions	3
Coding type	A

Connection 2

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

1415884

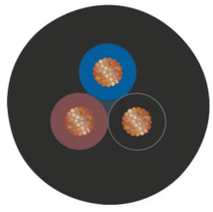
https://www.phoenixcontact.com/gb/products/1415884

Type	Socket straight M8
Number of positions	3
Coding type	A

Cable/line

Cable length	3 m

PVC black [PVC]

Dimensional drawing	
Cable weight	29 kg/km
Number of positions	3
Shielded	no
Cable type	PVC black [PVC]
Conductor structure signal line	14x 0.15 mm
AWG signal line	24
Conductor cross section	3x 0.25 mm² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.05 mm
External cable diameter	4.20 mm ±0.15 mm
Outer sheath, material	PVC
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, blue, black
Thickness, insulation	≥ 0.23 mm (Core insulation)
Thickness, outer sheath	≥ 0.76 mm
Overall twist	3 wires, twisted
Max. conductor resistance	max. 79 Ω/km (at 20 °C)
Insulation resistance	≥ 100 MΩ*km (at 20 °C)
Nominal voltage, cable	≥ 300 V
Test voltage	≤ 3000 V
Smallest bending radius, fixed installation	13 mm
Flame resistance	As per UL-Style 2464
Resistance to oil	EN 60811-2-1
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation)
	-10 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

chanhvinh.com

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

1415884

https://www.phoenixcontact.com/gb/products/1415884

Ambient conditions

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

Standards and regulations

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

chanhvinh.com

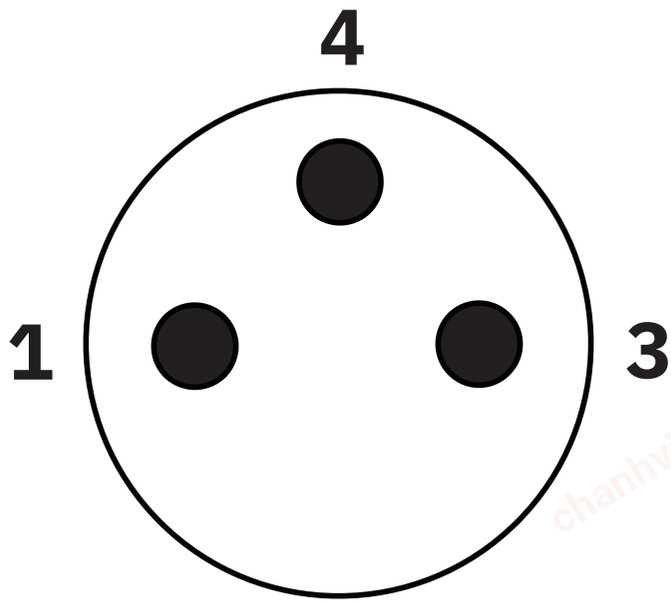
SAC-3P-M 8MR/3,0-PVC/M 8FS - Sensor/actuator cable

1415884

https://www.phoenixcontact.com/gb/products/1415884

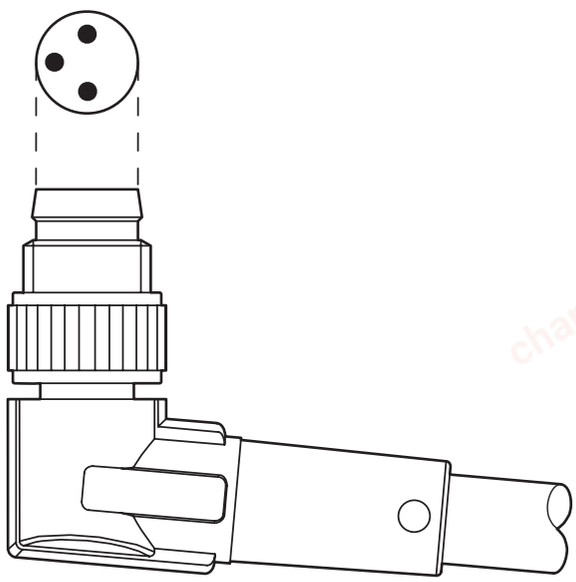
Drawings

Schematic diagram



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

Schematic diagram



Layout of connector pin assignments

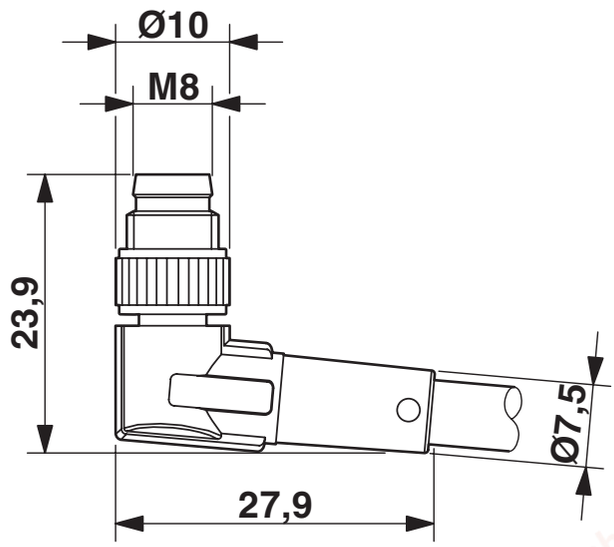
chanhvinh.com

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

1415884

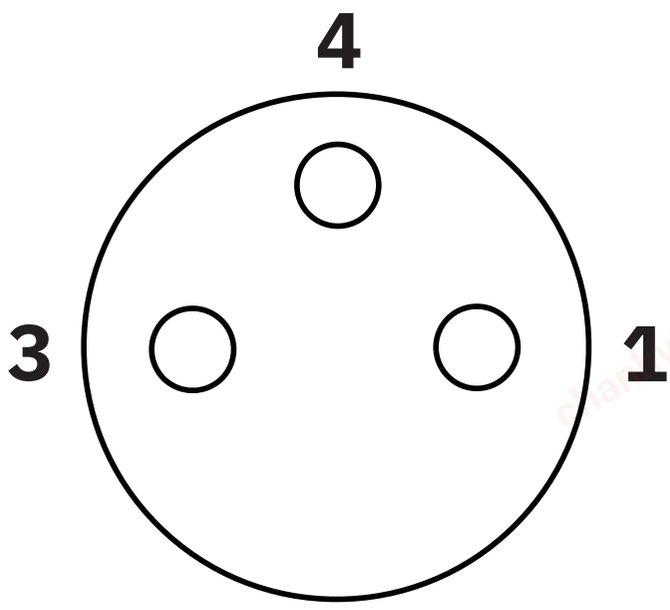
https://www.phoenixcontact.com/gb/products/1415884

Dimensional drawing



M8 x 1 male plug, angled version

Schematic diagram



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

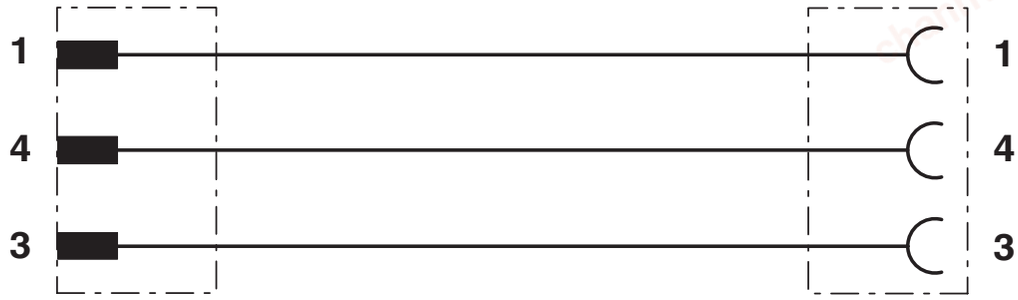
chanhvinh.com

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

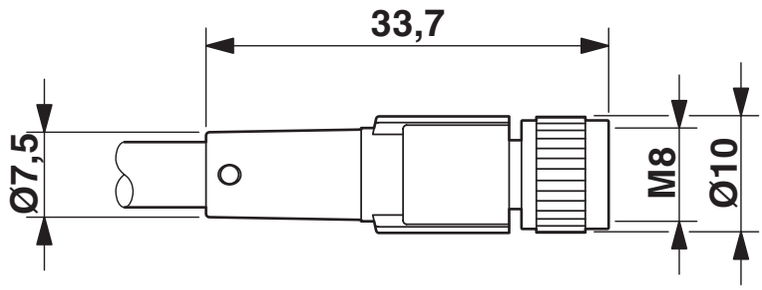
1415884

https://www.phoenixcontact.com/gb/products/1415884

Circuit diagram



Dimensional drawing



Socket M8 x 1, straight

chanhvinh.com

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

1415884

https://www.phoenixcontact.com/gb/products/1415884

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1415884

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 8MR/3,0-PVC/M 8FS - Sensor/actuator cable

1415884

https://www.phoenixcontact.com/gb/products/1415884

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 8MR/3,0-PVC/M 8FS - Sensor/actuator cable

1415884

https://www.phoenixcontact.com/gb/products/1415884

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	0.705 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