

SAC-3P-MS/3,0-647/FR SCO BK - Sensor/actuator cable

1415134
<https://www.phoenixcontact.com/us/products/1415134>

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, TPE, yellow, Plug straight M12 SPEEDCON, coding: A, on Socket angled M12 SPEEDCON, coding: A, cable length: 3 m

Commercial data

Item number	1415134
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	BF1IFA
GTIN	4055626048673
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	US

SAC-3P-MS/3,0-647/FR SCO BK - Sensor/actuator cable



1415134

<https://www.phoenixcontact.com/us/products/1415134>

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard, U.S. cables
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
Outer sheath, material	TPE

Electrical properties

Nominal voltage U_N	250 V AC
	250 V DC
Nominal current I_N	4 A

Signaling

Status display	No
Status display present	No

Connection data

Conductor connection

Tightening torque	0.4 Nm (M12 connector)
-------------------	------------------------

Connector

Connection 1

Type	Plug straight M12 SPEEDCON
Number of positions	3
Locking type	SPEEDCON
Coding type	A

SAC-3P-MS/3,0-647/FR SCO BK - Sensor/actuator cable



1415134

<https://www.phoenixcontact.com/us/products/1415134>

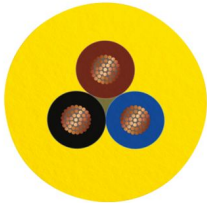
Connection 2

Type	Socket angled M12 SPEEDCON
Number of positions	3
Locking type	SPEEDCON
Coding type	A

Cable/line

Cable length	3 m
--------------	-----

TPE yellow 105 °C [647]

Dimensional drawing	
Cable weight	23 kg/km
UL AWM Style	20327 (105 °C / 300 V)
Number of positions	3
Shielded	no
Cable type	TPE yellow 105 °C [647]
Conductor structure signal line	41x 0.16 mm
AWG signal line	18
Wire diameter incl. insulation	1.8 mm
External cable diameter	5.70 mm ±0.25 mm
Outer sheath, material	TPE
External sheath, color	yellow
Material wire insulation	PVC
Thickness, insulation	0.23 mm
Thickness, outer sheath	0.89 mm
Overall twist	3 wires, twisted
Nominal voltage, cable	300 V
Flame resistance	According to FT1
Resistance to oil	OIL RES I according to UL 2256
Other resistance	UV resistant (720 h) (to UL 2256)
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67

SAC-3P-MS/3,0-647/FR SCO BK - Sensor/actuator cable



1415134
<https://www.phoenixcontact.com/us/products/1415134>

	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

SAC-3P-MS/3,0-647/FR SCO BK - Sensor/actuator cable

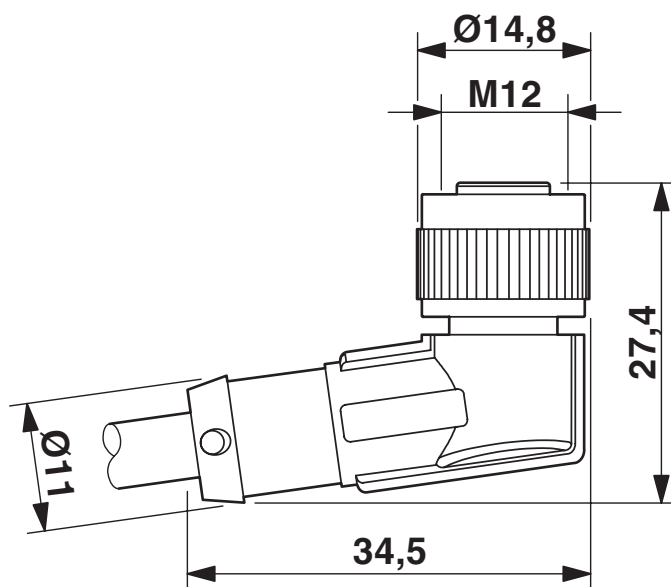


1415134

<https://www.phoenixcontact.com/us/products/1415134>

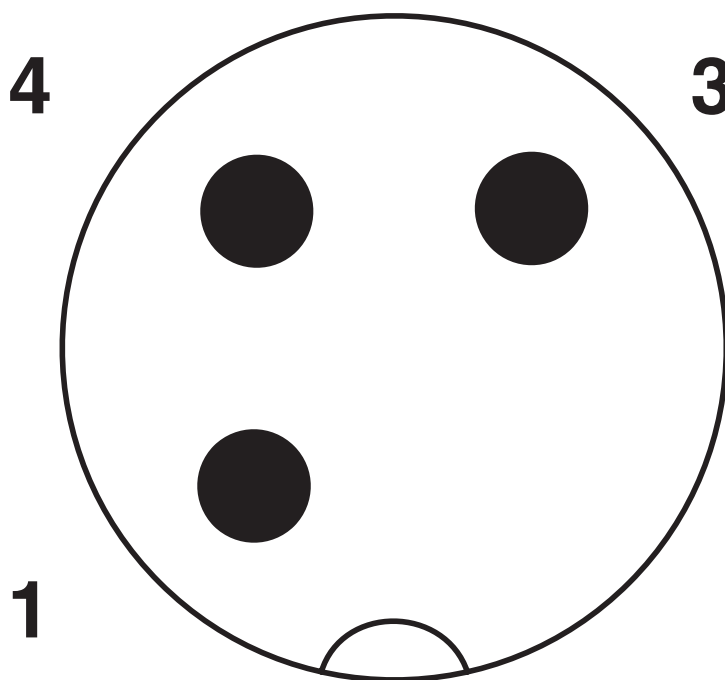
Drawings

Dimensional drawing



M12 x 1 socket, angled

Schematic diagram



Pin assignment M12 plug, 3-pos., A-coded, view male side

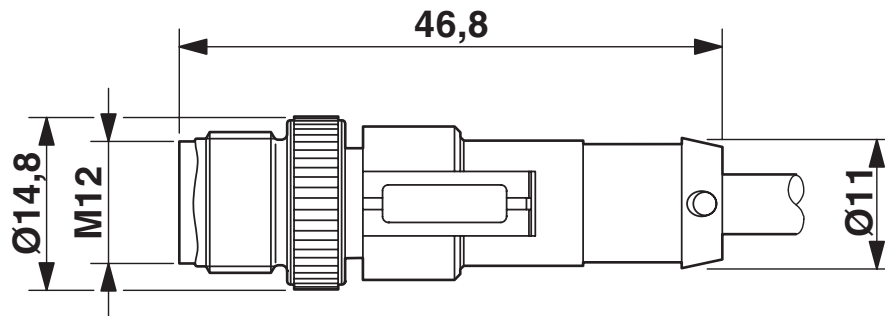
SAC-3P-MS/3,0-647/FR SCO BK - Sensor/actuator cable



1415134

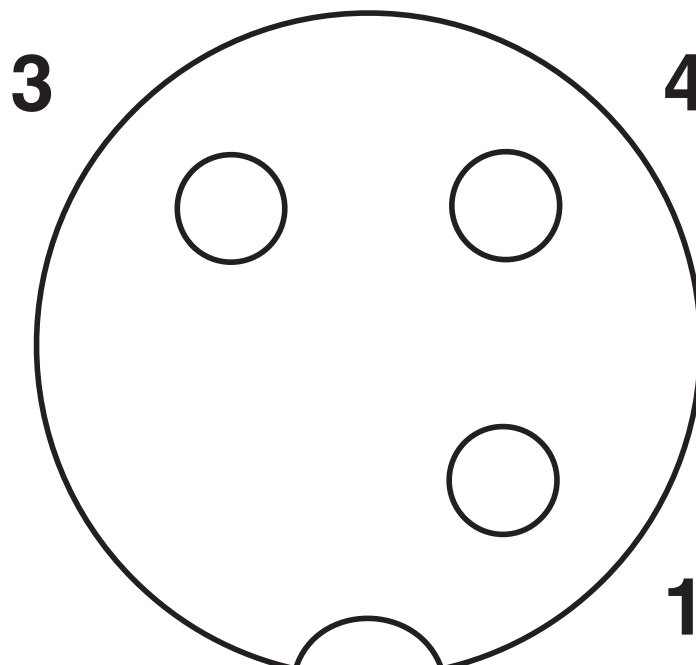
<https://www.phoenixcontact.com/us/products/1415134>

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



Pin assignment M12 socket, 3-pos., A-coded, view female side

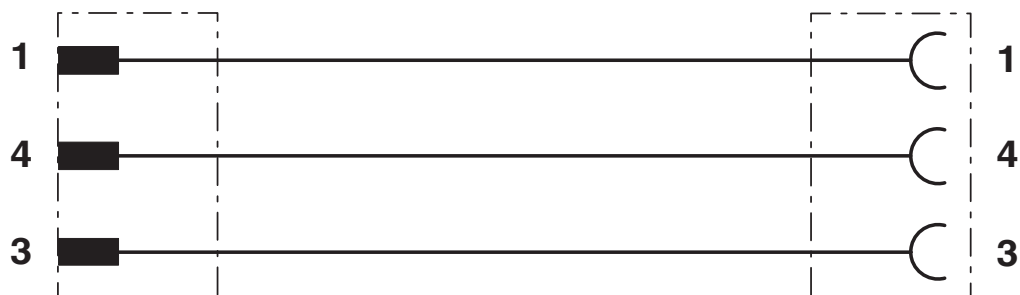
SAC-3P-MS/3,0-647/FR SCO BK - Sensor/actuator cable



1415134

<https://www.phoenixcontact.com/us/products/1415134>

Circuit diagram



SAC-3P-MS/3,0-647/FR SCO BK - Sensor/actuator cable



1415134
<https://www.phoenixcontact.com/us/products/1415134>

Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-13.0	27060311

SAC-3P-MS/3,0-647/FR SCO BK - Sensor/actuator cable



1415134
<https://www.phoenixcontact.com/us/products/1415134>

Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

SAC-3P-MS/3,0-647/FR SCO BK - Sensor/actuator cable



1415134

<https://www.phoenixcontact.com/us/products/1415134>

Accessories

PROT-M12 FS-PA-CHAIN - Sealing cap

1430873

<https://www.phoenixcontact.com/us/products/1430873>

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs



SAC-M12-EXCLIP-M - Locking clip

1558988

<https://www.phoenixcontact.com/us/products/1558988>

Locking clip for the pin side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools



SAC-3P-MS/3,0-647/FR SCO BK - Sensor/actuator cable



1415134

<https://www.phoenixcontact.com/us/products/1415134>

PROT-M12 MS-PA-CHAIN - Screw plug

1430899

<https://www.phoenixcontact.com/us/products/1430899>

M12 sealing cap with fixing band, for sensor cables, for free M12 sockets



SAC-M12-EXCLIP-F - Locking clip

1558991

<https://www.phoenixcontact.com/us/products/1558991>

Locking clip for the socket side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools



SAC-3P-MS/3,0-647/FR SCO BK - Sensor/actuator cable



1415134

<https://www.phoenixcontact.com/us/products/1415134>

TSD 04 SAC - Torque screwdriver

1208429

<https://www.phoenixcontact.com/us/products/1208429>



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/us/products/1212224>



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

SAC-3P-MS/3,0-647/FR SCO BK - Sensor/actuator cable



1415134

<https://www.phoenixcontact.com/us/products/1415134>

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

<https://www.phoenixcontact.com/us/products/1212600>



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

SAC BIT M12-D15 - Tool

1208432

<https://www.phoenixcontact.com/us/products/1208432>



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 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