

Sensor/actuator cable - SAC-5P-MS/ 3,0-547/FR SCO BK - 1424984

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Sensor/actuator cable, 5-position, PVC, yellow, Plug straight M12 SPEEDCON, A-coded, on Socket angled M12 SPEEDCON, A-coded, cable length: 3 m



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626402314

Technical data

Dimensions

Length of cable	3 m
-----------------	-----

Ambient conditions

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

General

Rated current at 40°C	4 A
Rated voltage	48 V AC
	60 V DC
Number of positions	5
Insulation resistance	≥ 10 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Protective circuit/component	unwired
Overvoltage category	II

Sensor/actuator cable - SAC-5P-MS/ 3,0-547/FR SCO BK - 1424984

Technical data

General

Degree of pollution	3
Torque	0.4 Nm (M12 connector)

Material

Flammability rating according to UL 94	HB
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	HB

Cable

Cable type	PVC yellow 105 °C
Cable type (abbreviation)	547
UL AWM style	2517 (105 °C / 300 V)
AWG signal line	18
Conductor structure signal line	41x 0.16 mm
Core diameter including insulation	1.7 mm ±0.03 mm
Wire colors	Brown, white, blue, black, gray
Overall twist	5 wires around filler to the core
External sheath, color	yellow
External cable diameter D	6.6 mm ±0.2 mm
Minimum bending radius, fixed installation	8 x D
Outer sheath, material	PVC
Material, filler	PP
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires
Nominal voltage, cable	300 V
Special properties	C(UL) CMX OUTDOOR-CMG 105 °C
	UL ITC/PLTC 105 °C
	CSA AWM I/II A/B FT4 105 °C / 300 V
Flame resistance	FT4
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
------------	--

Sensor/actuator cable - SAC-5P-MS/ 3,0-547/FR SCO BK - 1424984

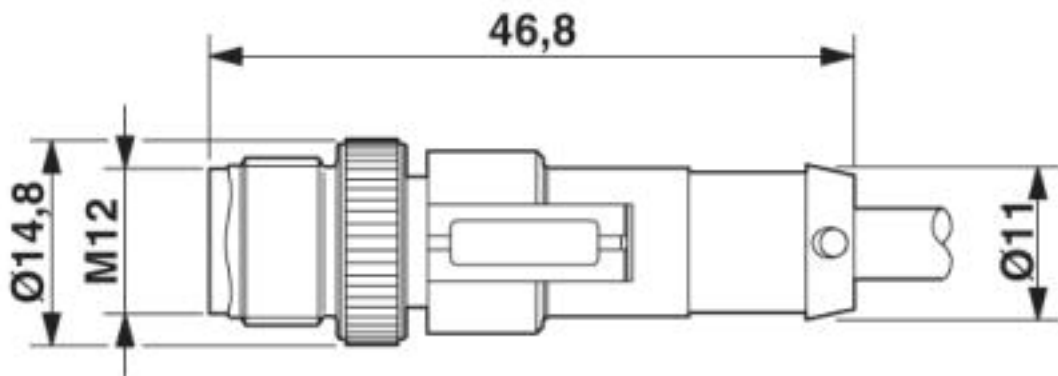
Technical data

Environmental Product Compliance

	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"
--	--

Drawings

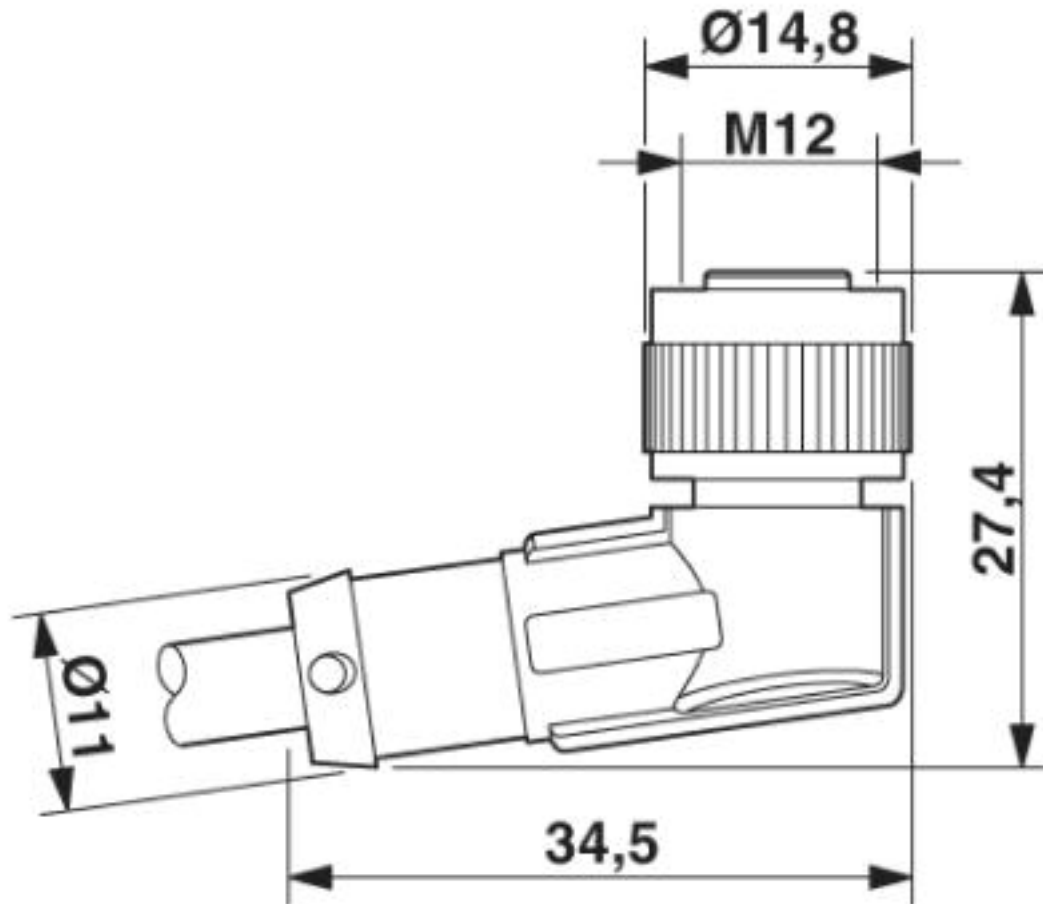
Dimensional drawing



Plug, M12 x 1, straight, shielded

Sensor/actuator cable - SAC-5P-MS/ 3,0-547/FR SCO BK - 1424984

Dimensional drawing



M12 x 1 socket, angled

Sensor/actuator cable - SAC-5P-MS/ 3,0-547/FR SCO BK - 1424984

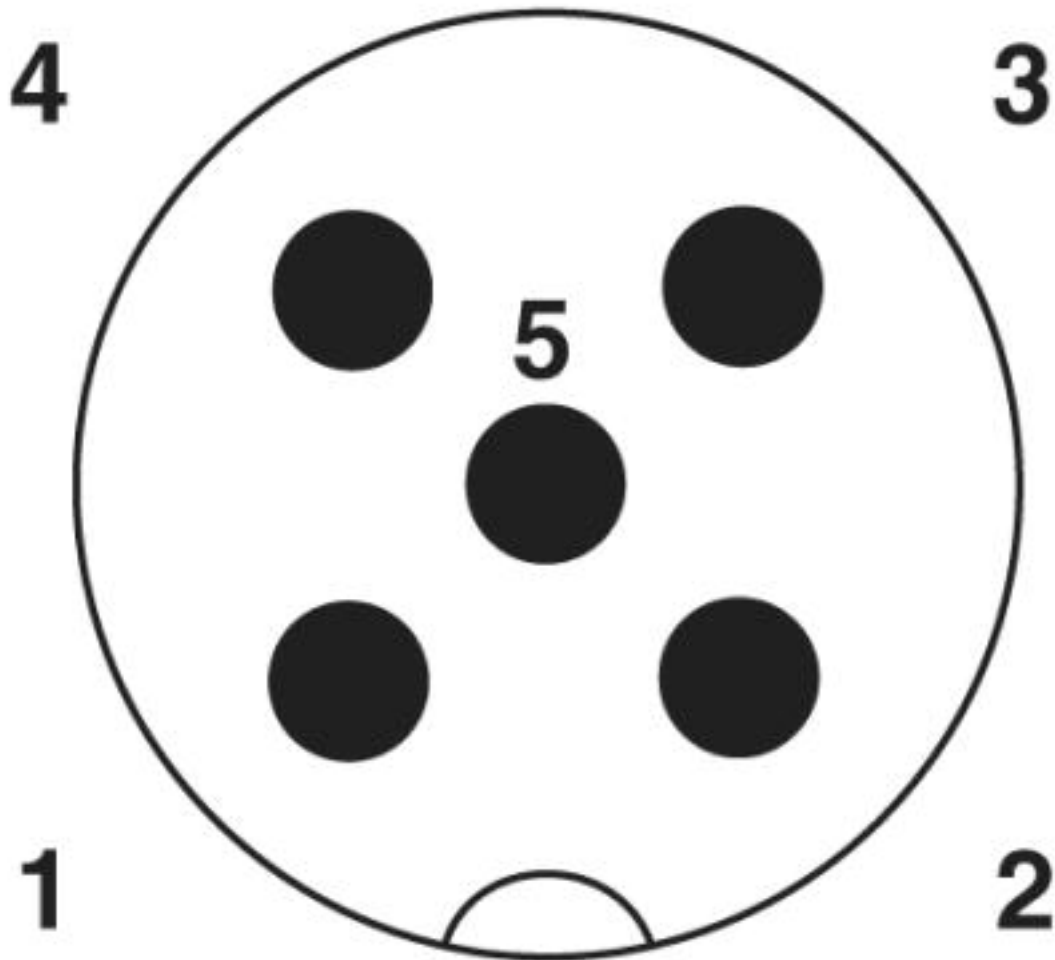
Circuit diagram



Contact assignment of the M12 plug and the M12 socket

Sensor/actuator cable - SAC-5P-MS/ 3,0-547/FR SCO BK - 1424984

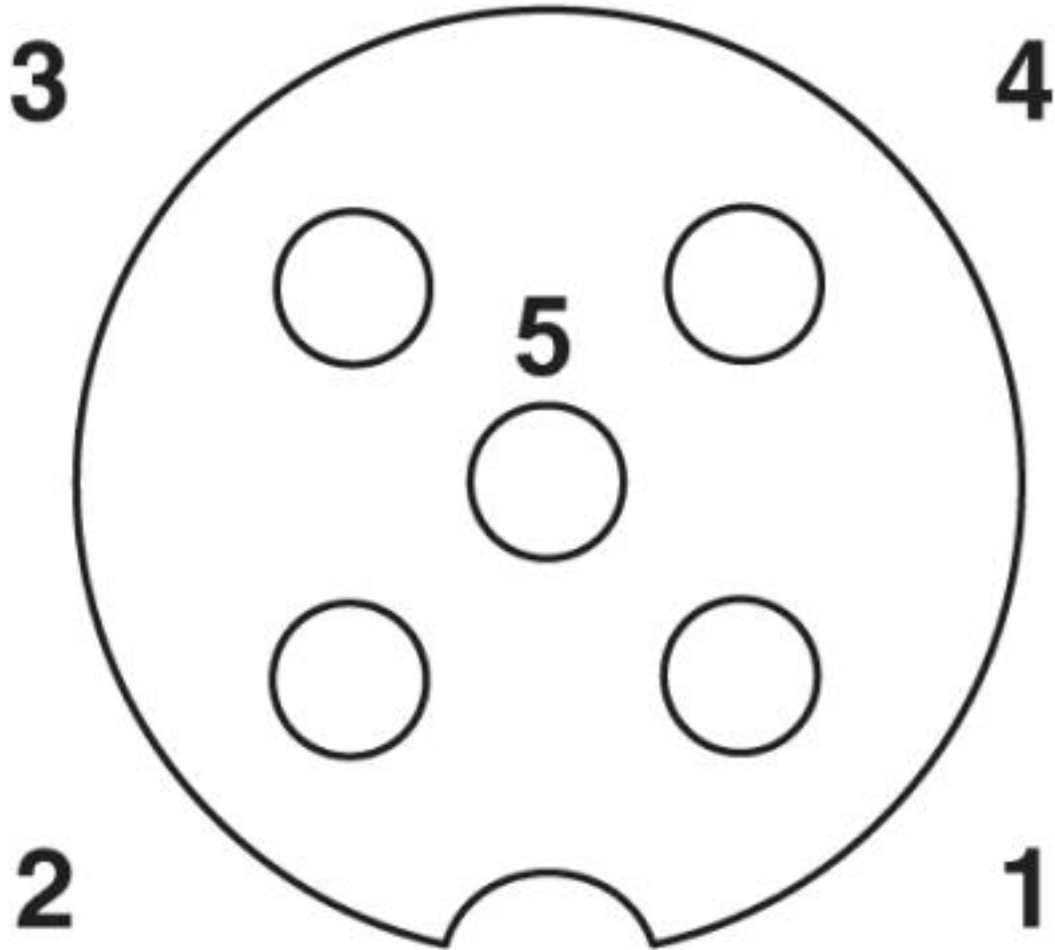
Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

Sensor/actuator cable - SAC-5P-MS/ 3,0-547/FR SCO BK - 1424984

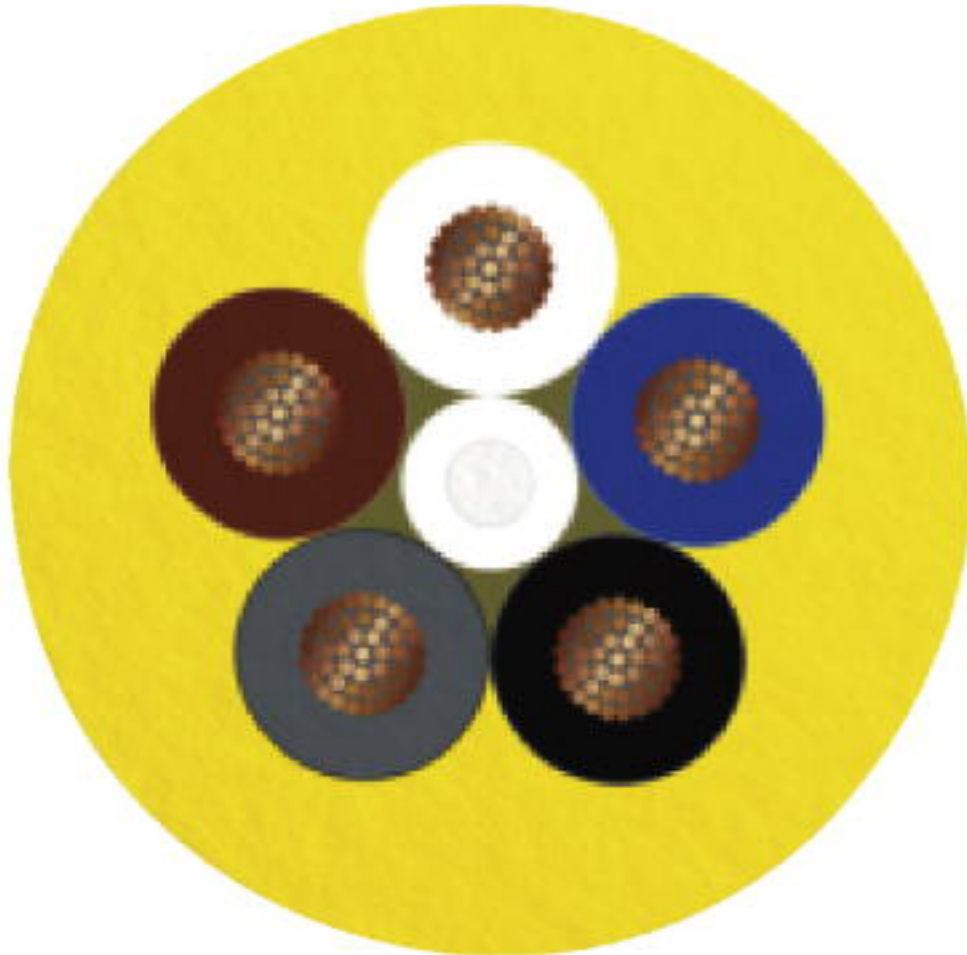
Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, female side

Sensor/actuator cable - SAC-5P-MS/ 3,0-547/FR SCO BK - 1424984

Cable cross section



PVC yellow 105 °C [547]

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

Sensor/actuator cable - SAC-5P-MS/ 3,0-547/FR SCO BK - 1424984

Approvals

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 221474
Nominal voltage UN		125 V	
Nominal current IN		4 A	

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 221474
Nominal voltage UN		125 V	
Nominal current IN		4 A	

cULus Listed	
--------------	--

Phoenix Contact 2019 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>