

SAC-5P-MS/ 0,75-186/FS SCO - Sensor/actuator cable



1577477

<https://www.phoenixcontact.com/us/products/1577477>

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, 5-position, PUR, black-gray RAL 7021, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 0.75 m

Commercial data

Item number	1577477
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	AF1CDA
GTIN	4046356456791
Weight per piece (including packing)	74.6 g
Weight per piece (excluding packing)	74.6 g
Customs tariff number	85444290
Country of origin	PL

SAC-5P-MS/ 0,75-186/FS SCO - Sensor/actuator cable



1577477

<https://www.phoenixcontact.com/us/products/1577477>

Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	5
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	$\geq 100 \text{ M}\Omega$
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 M12 SPEEDCON
Number of positions	5
Locking type	SPEEDCON
Coding type	A

Connection 2

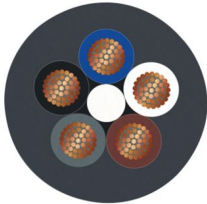
Type	Socket straight M12 SPEEDCON
Number of positions	5
Locking type	SPEEDCON
Coding type	A

SAC-5P-MS/ 0,75-186/FS SCO - Sensor/actuator cable

1577477

<https://www.phoenixcontact.com/us/products/1577477>

Cable/line

Cable length	0.75 m
PUR POWER 0.75 mm ² black [186]	
Dimensional drawing	
Cable weight	67 kg/km
Number of positions	5
Shielded	no
Cable type	PUR POWER 0.75 mm ² black [186]
Conductor structure signal line	42x 0.15 mm
AWG signal line	18
Conductor cross section	5x 0.75 mm ² (power line)
Wire diameter incl. insulation	1.7 mm ±0.05 mm
External cable diameter	6.30 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, white, blue, black, gray
Thickness, insulation	≥ 0.23 mm (Core insulation) ≥ 0.76 mm (Outer cable sheath)
Overall twist	5 wires around filler to the core
Max. conductor resistance	max. 26 Ω/km (at 20 °C)
Insulation resistance	≥ 1 MΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Smallest bending radius, movable installation	63 mm
Dynamic load capacity (bending)	Max. bending cycles: 2000000, Bending radius: 63 mm, Traversing path: 5 m, Traversing rate: 3 m/s, Acceleration: 5 m/s ²
Flame resistance	in accordance with DIN UL-Style 20549
Resistance to oil	in accordance with DIN EN 60811-2-1
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

SAC-5P-MS/ 0,75-186/FS SCO - Sensor/actuator cable



1577477

<https://www.phoenixcontact.com/us/products/1577477>

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-25 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

SAC-5P-MS/ 0,75-186/FS SCO - Sensor/actuator cable



1577477

<https://www.phoenixcontact.com/us/products/1577477>

Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing

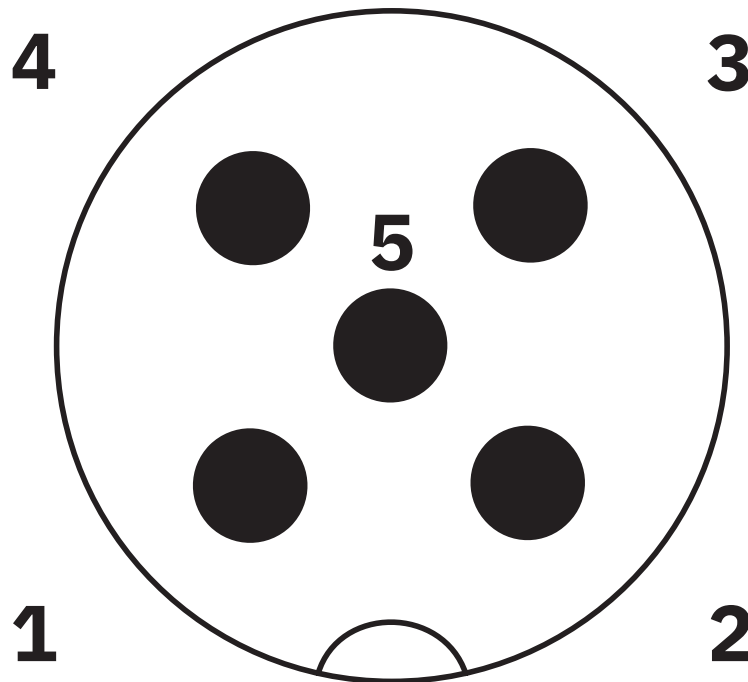


M12 x 1 socket, straight

1577477

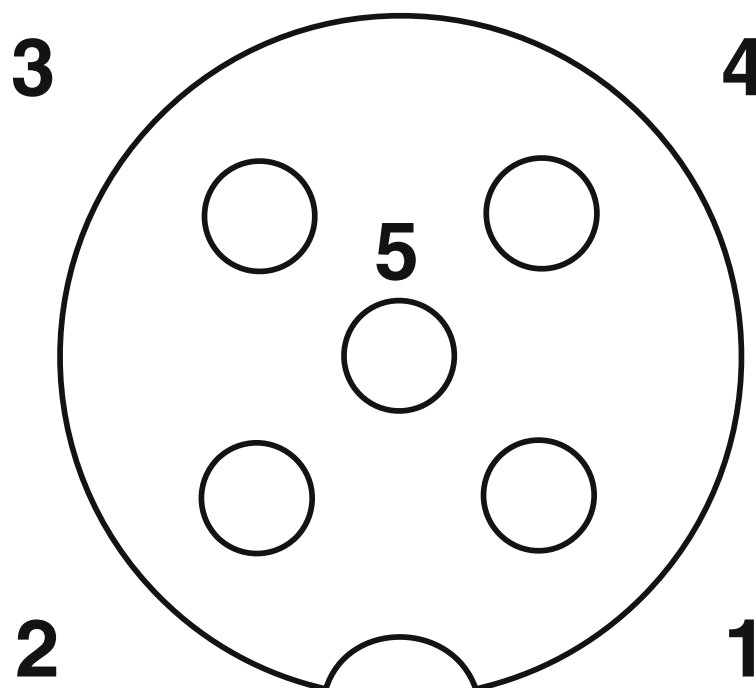
<https://www.phoenixcontact.com/us/products/1577477>

Schematic diagram



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

Schematic diagram



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

SAC-5P-MS/ 0,75-186/FS SCO - Sensor/actuator cable



1577477

<https://www.phoenixcontact.com/us/products/1577477>

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

SAC-5P-MS/ 0,75-186/FS SCO - Sensor/actuator cable



1577477
<https://www.phoenixcontact.com/us/products/1577477>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

SAC-5P-MS/ 0,75-186/FS SCO - Sensor/actuator cable



1577477
<https://www.phoenixcontact.com/us/products/1577477>

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%

Phoenix Contact 2025 © - 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