

SAC-12P- 5,0-PVC/FS SCO - Sensor/actuator cable



1554872

<https://www.phoenixcontact.com/au/products/1554872>

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, 12-position, PVC, black RAL 9005, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 5 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Save time, thanks to installation with SPEEDCON fast locking system
- Save space – with high-pos. connectors

Commercial data

Item number	1554872
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF1CGA
Product key	AF1CGA
Catalog page	Page 213 (C-2-2019)
GTIN	4046356176484
Weight per piece (including packing)	261.7 g
Weight per piece (excluding packing)	255.5 g
Customs tariff number	85444290
Country of origin	DE

SAC-12P- 5,0-PVC/FS SCO - Sensor/actuator cable



1554872

<https://www.phoenixcontact.com/au/products/1554872>

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	12
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	CuZn
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	30 V AC
	30 V DC
Nominal current I_N	1.5 A

Signaling

Status display	no
Status display present	no

Connection data

Conductor connection

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

Connector

Connection 1

Type	free cable end
------	----------------

Connection 2

Type	Socket straight M12 SPEEDCON
Number of positions	12

SAC-12P- 5,0-PVC/FS SCO - Sensor/actuator cable



1554872


<https://www.phoenixcontact.com/au/products/1554872>

Locking type	SPEEDCON
Coding type	A

Cable/line

Cable length	5 m
--------------	-----

PVC black [PVC]

Dimensional drawing	
Number of positions	12
Shielded	no
Cable type	PVC black [PVC]
Conductor structure signal line	18x 0.10 mm
AWG signal line	26
Conductor cross section	12x 0.14 mm ² (Signal line)
Wire diameter incl. insulation	1 mm ±0.05 mm (Signal line)
External cable diameter	5.80 mm
Outer sheath, material	PVC
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	white, brown, green, yellow, gray, pink, blue, red, black, violet, gray/pink, red/blue
Overall twist	12 wires twisted in layers
Max. conductor resistance	≤ 142 Ω/km (at 20 °C)
Insulation resistance	> 10 MΩ*km
Nominal voltage, cable	250 V
Test voltage Core/Core	1500 V AC
Smallest bending radius, fixed installation	29 mm
Smallest bending radius, movable installation	87 mm
Flame resistance	DIN EN 50265-2-1
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67

SAC-12P- 5,0-PVC/FS SCO - Sensor/actuator cable



1554872

<https://www.phoenixcontact.com/au/products/1554872>

	IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug / socket)
Ambient temperature (operation) (Cable, fixed installation)	-25 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-5 °C ... 80 °C (Cable, flexible installation)

Standards and regulations

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

SAC-12P- 5,0-PVC/FS SCO - Sensor/actuator cable

1554872

<https://www.phoenixcontact.com/au/products/1554872>

Drawings

Dimensional drawing



M12-SPEEDCON socket, straight

Schematic diagram



Pin assignment M12, 12-pos., female side view

SAC-12P- 5,0-PVC/FS SCO - Sensor/actuator cable



1554872

<https://www.phoenixcontact.com/au/products/1554872>

Circuit diagram



Contact assignment of the M12 socket

SAC-12P- 5,0-PVC/FS SCO - Sensor/actuator cable




1554872

<https://www.phoenixcontact.com/au/products/1554872>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/1554872>

 UL Listed Approval ID: E221474	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	30 V	1 A	-	-

 EAC-RoHS Approval ID: RU D-DE.HB35.B.00387
--

SAC-12P- 5,0-PVC/FS SCO - Sensor/actuator cable



1554872

<https://www.phoenixcontact.com/au/products/1554872>

Classifications

ECLASS

ECLASS-13.0

27060311

ETIM

ETIM 9.0

EC001855

UNSPSC

UNSPSC 21.0

26121600

SAC-12P- 5,0-PVC/FS SCO - Sensor/actuator cable



1554872

<https://www.phoenixcontact.com/au/products/1554872>

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	3.509 kg CO2e
---------	---------------

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT PTY Ltd
Unit 7, 2-8 South Street
Rydalmere NSW 2116
1300 786 411
customerservice@phoenixcontact.com.au