

SAC-17P-20,0-PUR/FS SCO - Sensor/actuator cable



1421710

<https://www.phoenixcontact.com/us/products/1421710>

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, 17-position, PUR halogen-free, black RAL 9005, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 20 m

Your advantages

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

Commercial data

Item number	1421710
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	AF1CGA
GTIN	4055626277950
Weight per piece (including packing)	1,429 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	DE

1421710

<https://www.phoenixcontact.com/us/products/1421710>

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	17
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	V0
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Nominal voltage U_N	30 V
Nominal current I_N	1.5 A

Signaling

Status display	no
Status display present	no

Connector

Connection 1

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

Connection 2

Type	Socket straight M12 SPEEDCON
Locking type	SPEEDCON
Coding type	A

Cable/line

Cable length	20 m
--------------	------


PUR halogen-free black [PUR]

SAC-17P-20,0-PUR/FS SCO - Sensor/actuator cable



1421710

<https://www.phoenixcontact.com/us/products/1421710>

Dimensional drawing	
Number of positions	17
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	18x 0.10 mm
AWG signal line	26
Conductor cross-section	17x 0.14 mm ² (Signal line)
Wire diameter incl. insulation	1 mm ±0.05 mm (Signal line)
External cable diameter	7.80 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PP
Single wire, color	white, brown, green, yellow, gray, pink, blue, red, black, violet, gray-pink, red-blue, white-green, brown-green, white-yellow, yellow-brown, white-gray
Overall twist	17 wires twisted in layers
Max. conductor resistance	142 Ω/km
Smallest bending radius, fixed installation	78 mm
Smallest bending radius, movable installation	39 mm
Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 60 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
Resistance to oil	DIN VDE 0472 Part 803, test type B
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10 partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Special properties	Low adhesion surface
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

SAC-17P-20,0-PUR/FS SCO - Sensor/actuator cable



1421710

<https://www.phoenixcontact.com/us/products/1421710>

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

1421710

<https://www.phoenixcontact.com/us/products/1421710>

Drawings

Dimensional drawing



Socket M12-SPEEDCON, straight, shielded

Schematic diagram



Pin assignment M12, 17-pos., socket side view

SAC-17P-20,0-PUR/FS SCO - Sensor/actuator cable



1421710

<https://www.phoenixcontact.com/us/products/1421710>

Circuit diagram



Contact assignment of the M12 socket

SAC-17P-20,0-PUR/FS SCO - Sensor/actuator cable



1421710

<https://www.phoenixcontact.com/us/products/1421710>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 10.0	EC001855
-----------	----------

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

SAC-17P-20,0-PUR/FS SCO - Sensor/actuator cable



1421710

<https://www.phoenixcontact.com/us/products/1421710>

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 2026 © - 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