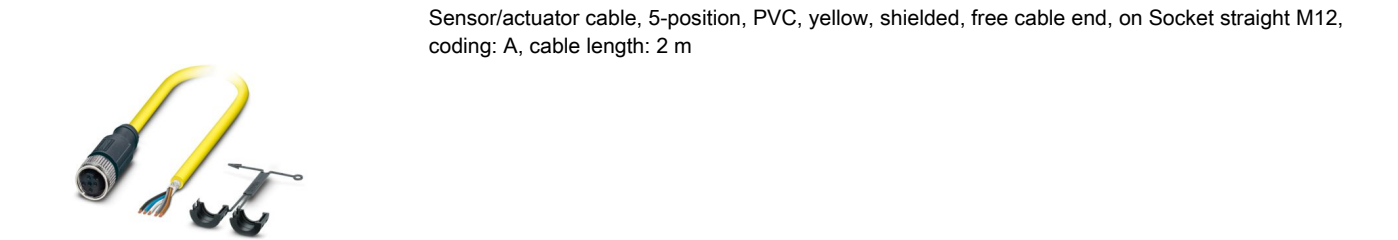


SAC-HZ-5P-2,0-542/FS SH SCO BK - Sensor/actuator cable

1409594
<https://www.phoenixcontact.com/us/products/1409594>

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.



Commercial data

Item number	1409594
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	BF1IGC
GTIN	4055626018508
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-HZ-5P-2,0-542/FS SH SCO BK - Sensor/actuator cable



1409594

<https://www.phoenixcontact.com/us/products/1409594>

Technical data

Notes

General	These cable assemblies are UL/cUL listed for use in Class I, Division 2 (CID2) hazardous locations.
---------	---

Mounting

Thread type	()
-------------	----

Product properties

Product type	Sensor/actuator cable
Application	U.S. cables for hazardous locations
Number of positions	5
No. of cable outlets	1
Shielded	yes
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	PVC

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

Connection data

Conductor connection

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

SAC-HZ-5P-2,0-542/FS SH SCO BK - Sensor/actuator cable



1409594

<https://www.phoenixcontact.com/us/products/1409594>

Connector

Connection 1

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

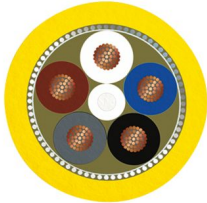
Connection 2

Type	Socket straight M12
Number of positions	5
Coding type	A

Cable/line

Cable length	2 m
--------------	-----

PVC yellow 105 °C [542]

Dimensional drawing	
Cable weight	57 kg/km
UL AWM Style	2517 (105 °C / 300 V)
Number of positions	5
Shielded	yes
Cable type	PVC yellow 105 °C [542]
Conductor structure signal line	30x 1.30 mm
AWG signal line	22
Wire diameter incl. insulation	1.27 mm ±0.03 mm
External cable diameter	5.90 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	yellow
Conductor material	Tin-plated Cu litz wires
Material, filler	PP
Material wire insulation	PVC
Single wire, color	brown, blue, black, white, gray
Overall twist	5 wires around filler to the core
Optical shield covering	85 %
Max. conductor resistance	max. 50.5 Ω/km (20 °C)
Insulation resistance	≥ (550 M Ohms/m @ 500V)
Nominal voltage, cable	300 V
Minimum bending radius, flexible installation	12 x D
Smallest bending radius, movable installation	71 mm

SAC-HZ-5P-2,0-542/FS SH SCO BK - Sensor/actuator cable



1409594

<https://www.phoenixcontact.com/us/products/1409594>

Flame resistance	FT4
Other resistance	UV resistant
Special properties	UL standards PLTC and ITC
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)
	-5 °C ... 105 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

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

Approvals

Conformity/Approvals

UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D
------------------	------------------------------------

Standards and regulations

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

SAC-HZ-5P-2,0-542/FS SH SCO BK - Sensor/actuator cable

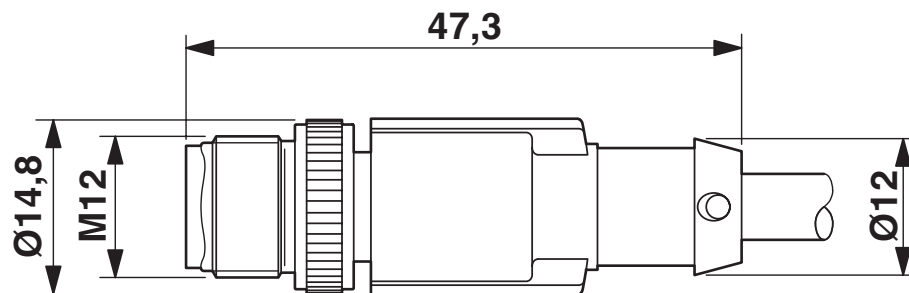


1409594

<https://www.phoenixcontact.com/us/products/1409594>

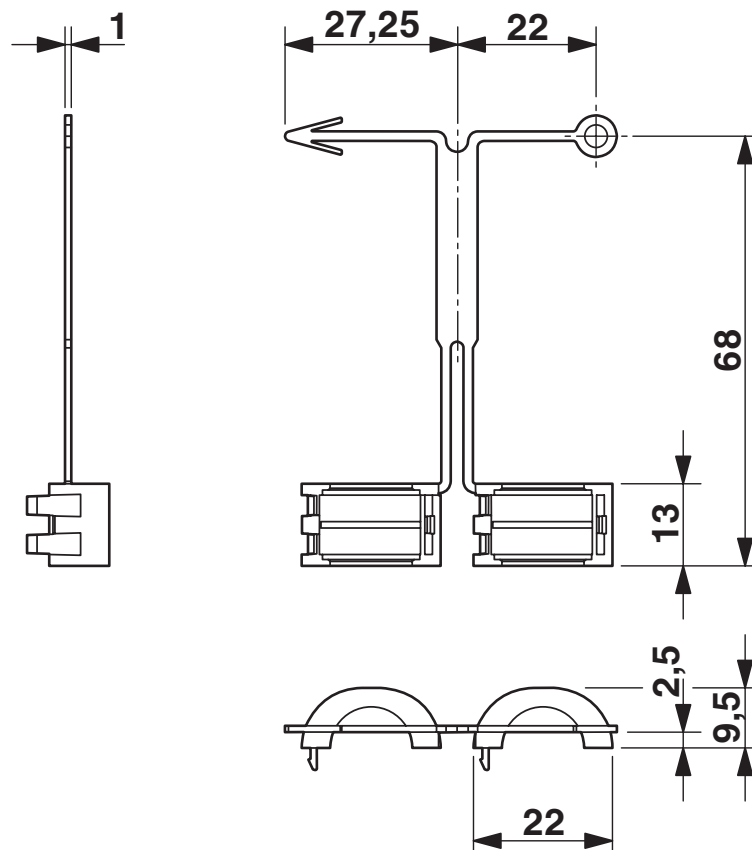
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



EXCLIP socket

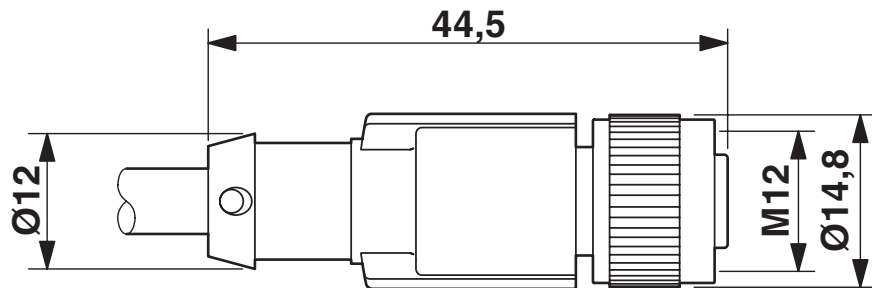
SAC-HZ-5P-2,0-542/FS SH SCO BK - Sensor/actuator cable



1409594

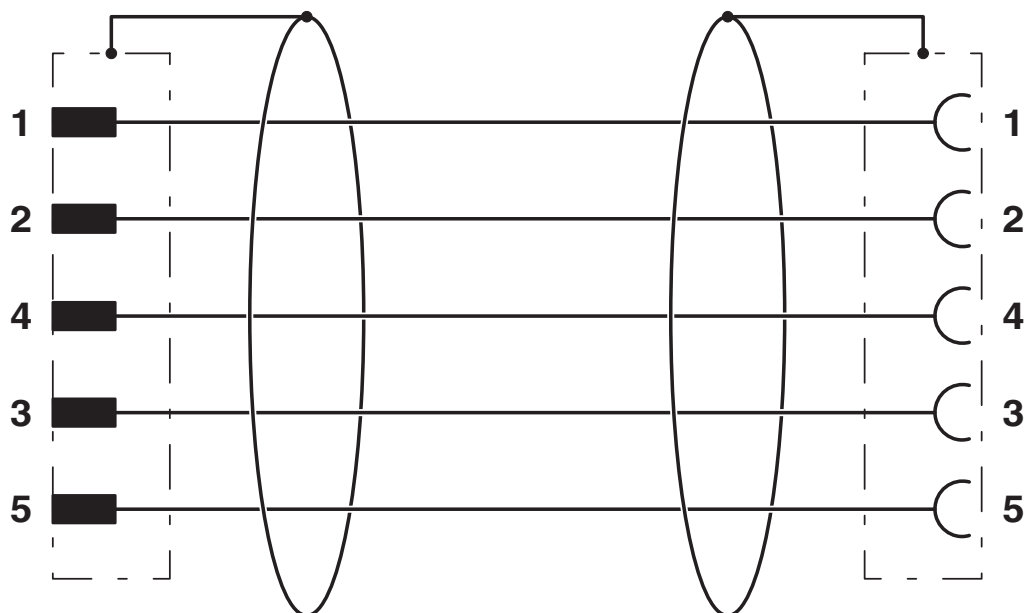
<https://www.phoenixcontact.com/us/products/1409594>

Dimensional drawing



M12 x 1 socket, straight, shielded

Circuit diagram



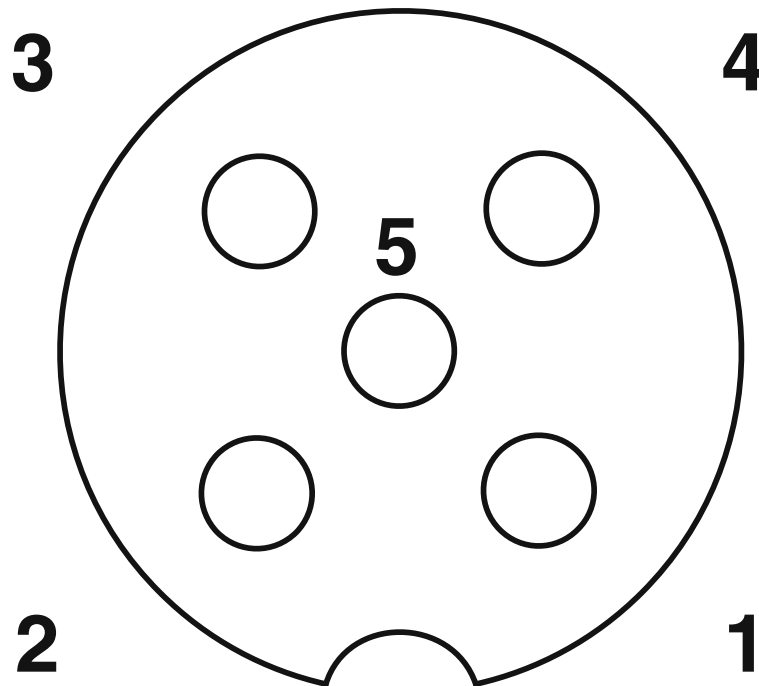
SAC-HZ-5P-2,0-542/FS SH SCO BK - Sensor/actuator cable



1409594

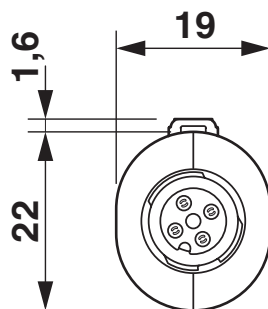
<https://www.phoenixcontact.com/us/products/1409594>

Schematic diagram

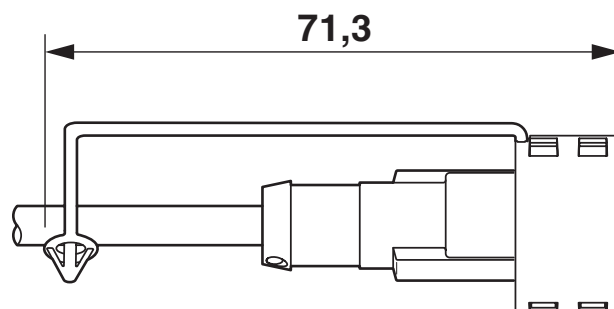


Pin assignment M12 socket, 5-pos., A-coded, socket side view

Dimensional drawing



EXCLIP mounted plug



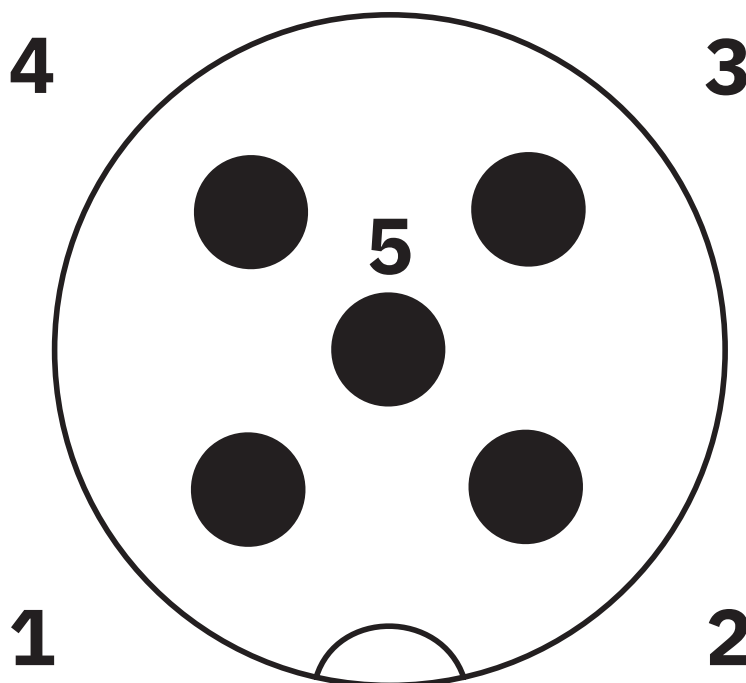
SAC-HZ-5P-2,0-542/FS SH SCO BK - Sensor/actuator cable



1409594

<https://www.phoenixcontact.com/us/products/1409594>

Schematic diagram



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

1409594
<https://www.phoenixcontact.com/us/products/1409594>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1409594>

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

	cUL Listed Approval ID: FILE E 359524			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	150 V	4 A	-	-

	UL Listed Approval ID: FILE E 359524			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	150 V	4 A	-	-

cULus Listed

SAC-HZ-5P-2,0-542/FS SH SCO BK - Sensor/actuator cable



1409594
<https://www.phoenixcontact.com/us/products/1409594>

Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

ETIM

ETIM 9.0	EC001855
----------	----------

UNSPSC

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

1409594
<https://www.phoenixcontact.com/us/products/1409594>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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