

SAC-HZ-3P-M12MR/ 0,5-542/M12FS - Sensor/actuator cable



1409526

<https://www.phoenixcontact.com/us/products/1409526>

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, 3-position, PVC, yellow, Plug angled M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 0.5 m



Commercial data

Item number	1409526
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	AF1IGA
GTIN	4055626017808
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-3P-M12MR/ 0,5-542/M12FS - Sensor/actuator cable



1409526

<https://www.phoenixcontact.com/us/products/1409526>

Technical data

Notes

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

Product properties

Product type	Sensor/actuator cable
Application	U.S. cables for hazardous locations
Number of positions	3
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
Outer sheath, material	PVC

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	250 V AC
	250 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)
-------------------	------------------------

Connector

Connection 1

SAC-HZ-3P-M12MR/ 0,5-542/M12FS - Sensor/actuator cable



1409526

<https://www.phoenixcontact.com/us/products/1409526>

Type	Plug angled M12 SPEEDCON
Number of positions	3
Locking type	SPEEDCON
Coding type	A

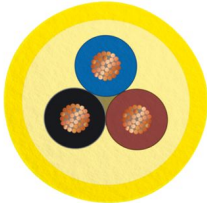
Connection 2

Type	Socket straight M12 SPEEDCON
Number of positions	3
Locking type	SPEEDCON
Coding type	A

Cable/line

Cable length	0.5 m
--------------	-------

PVC yellow 105 °C [542]

Dimensional drawing	
Cable weight	30 kg/km
UL AWM Style	2517 (105 °C / 300 V)
Number of positions	3
Shielded	no
Cable type	PVC yellow 105 °C [542]
Conductor structure signal line	7x 0.25 mm
AWG signal line	22
Wire diameter incl. insulation	1.27 mm ±0.03 mm
External cable diameter	4.70 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	yellow
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, blue, black
Overall twist	3 wires, twisted
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	8 x D
Smallest bending radius, movable installation	38 mm
Flame resistance	FT4
Other resistance	UV resistant

SAC-HZ-3P-M12MR/ 0,5-542/M12FS - Sensor/actuator cable



1409526

<https://www.phoenixcontact.com/us/products/1409526>

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
	IP68
Ambient temperature (operation) (male connector/female connector)	-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-3P-M12MR/ 0,5-542/M12FS - Sensor/actuator cable

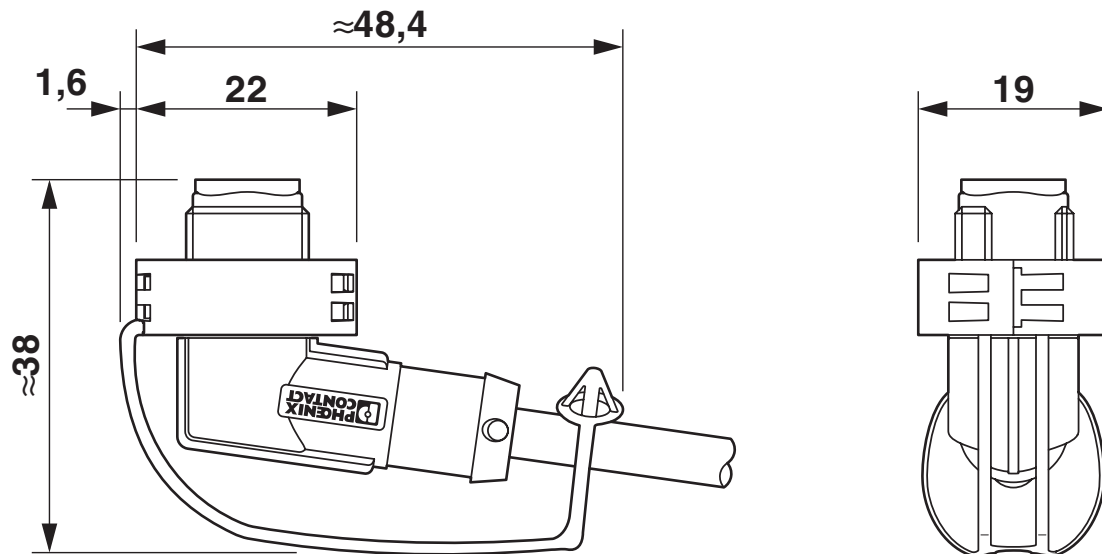


1409526

<https://www.phoenixcontact.com/us/products/1409526>

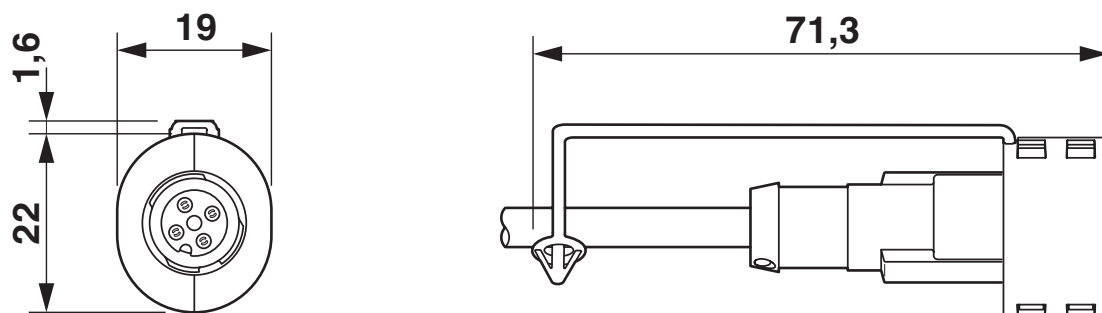
Drawings

Dimensional drawing



EXCLIP mounted plug

Dimensional drawing



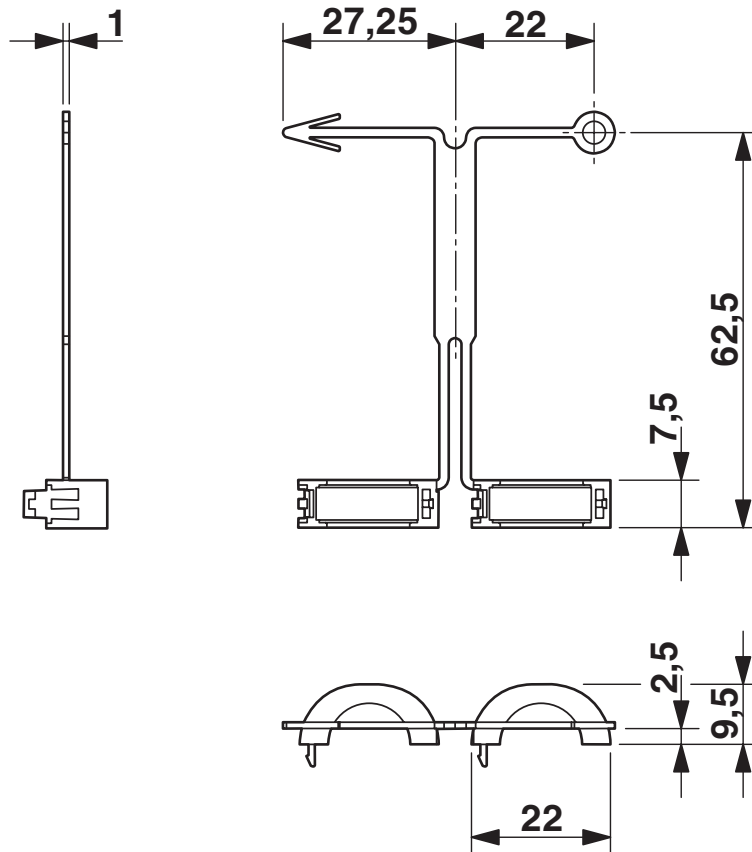
EXCLIP mounted plug

SAC-HZ-3P-M12MR/ 0,5-542/M12FS - Sensor/actuator cable

1409526

<https://www.phoenixcontact.com/us/products/1409526>

Dimensional drawing



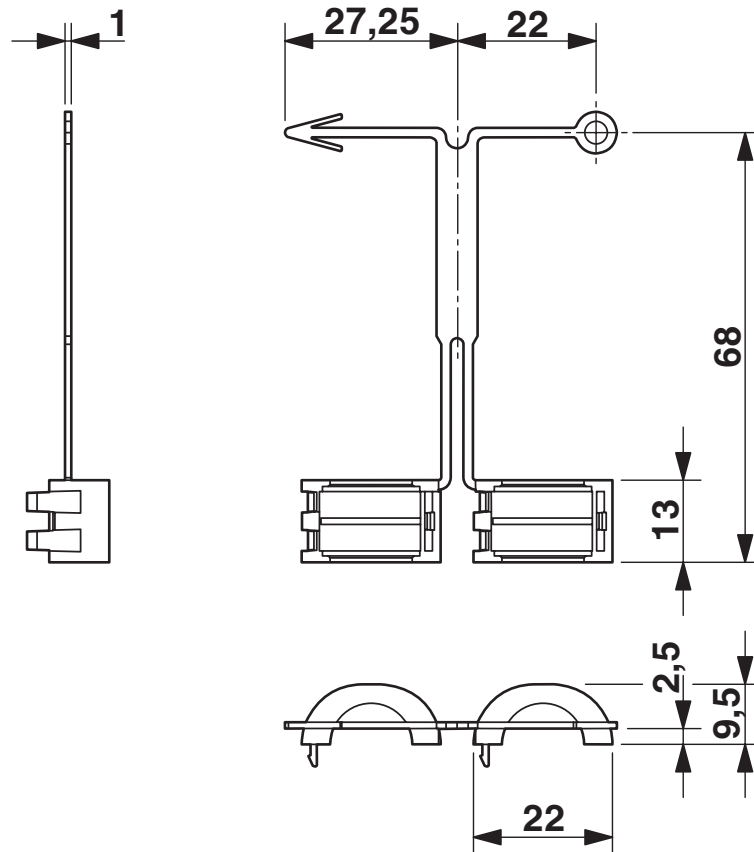
EXCLIP plug

SAC-HZ-3P-M12MR/ 0,5-542/M12FS - Sensor/actuator cable

1409526

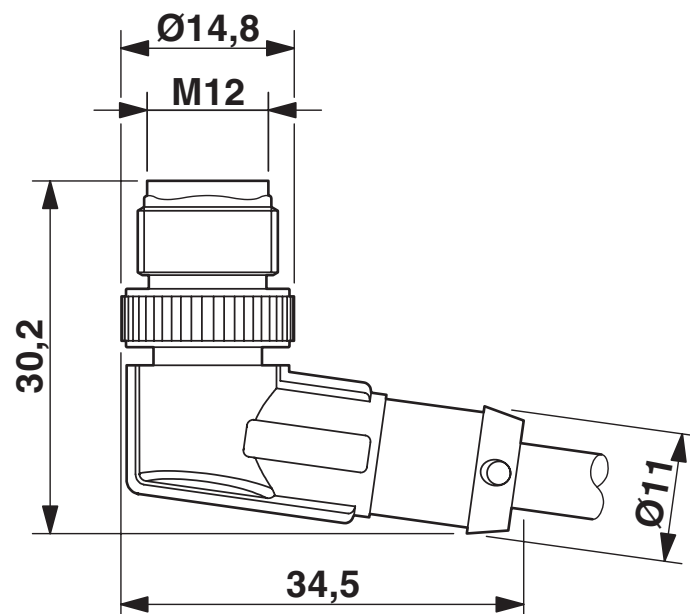
<https://www.phoenixcontact.com/us/products/1409526>

Dimensional drawing



EXCLIP socket

Dimensional drawing



M12 x 1 male plug, angled

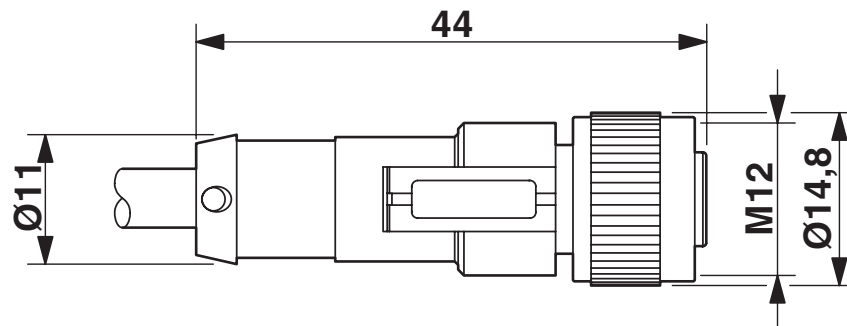
SAC-HZ-3P-M12MR/ 0,5-542/M12FS - Sensor/actuator cable



1409526

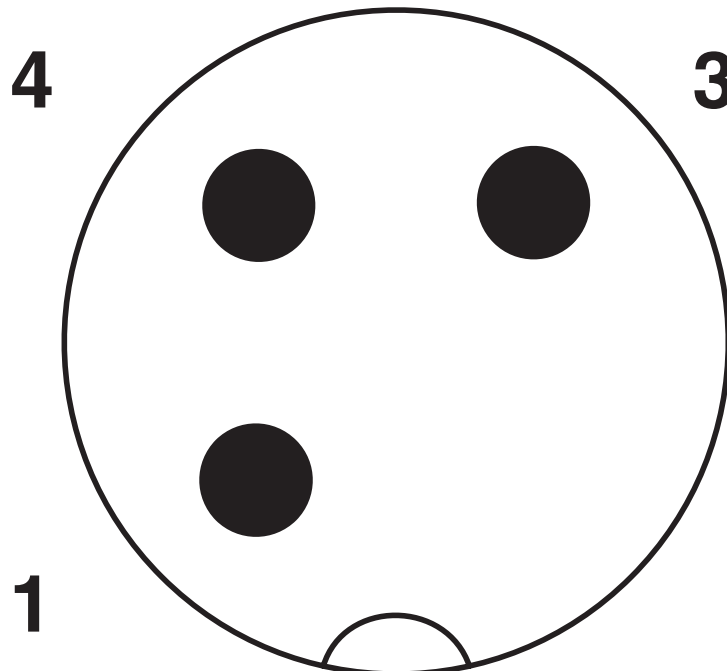
<https://www.phoenixcontact.com/us/products/1409526>

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



Pin assignment M12 plug, 3-pos., A-coded, view male side

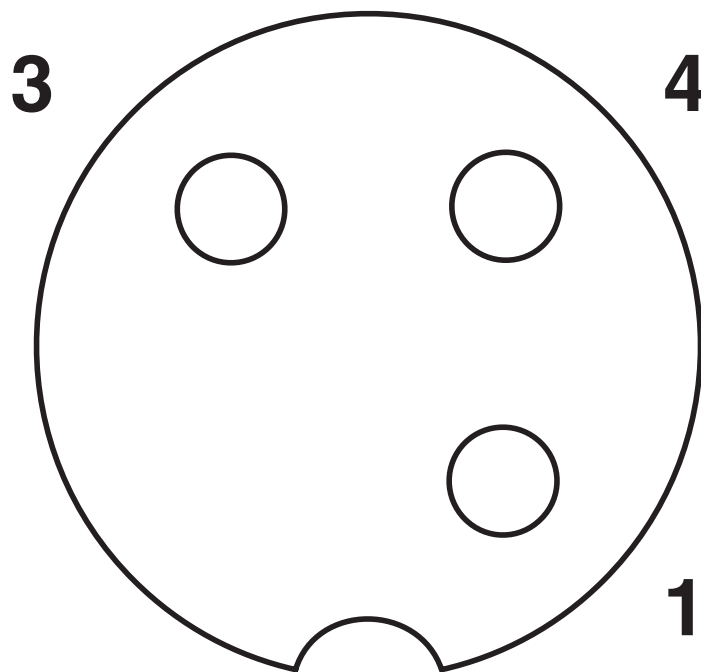
SAC-HZ-3P-M12MR/ 0,5-542/M12FS - Sensor/actuator cable



1409526

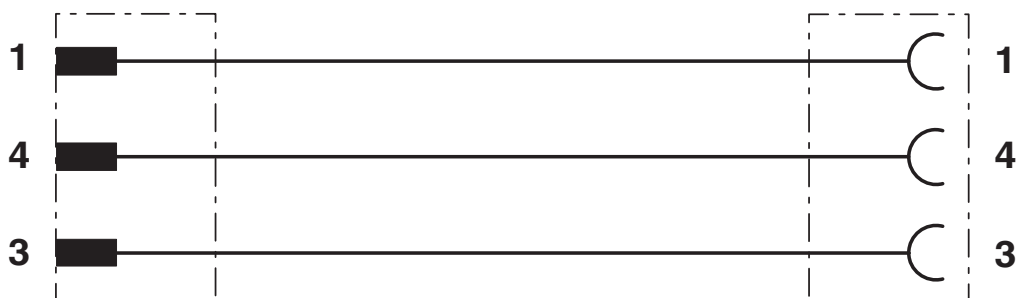
<https://www.phoenixcontact.com/us/products/1409526>

Schematic diagram



Pin assignment M12 socket, 3-pos., A-coded, view female side

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

SAC-HZ-3P-M12MR/ 0,5-542/M12FS - Sensor/actuator cable



1409526
<https://www.phoenixcontact.com/us/products/1409526>

Classifications

ECLASS

ECLASS-13.0	27060311
-------------	----------

ETIM

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

UNSPSC

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

SAC-HZ-3P-M12MR/ 0,5-542/M12FS - Sensor/actuator cable



1409526
<https://www.phoenixcontact.com/us/products/1409526>

Environmental product compliance

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