

SAC-5P-15,0-542/M12FS SH BK - Sensor/actuator cable



1418053

<https://www.phoenixcontact.com/us/products/1418053>

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, PVC, yellow, shielded, free cable end, on Socket straight M12, coding: A, cable length: 15 m

Commercial data

Item number	1418053
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	AF1IDC
GTIN	4055626211633
Weight per piece (including packing)	845.3 g
Weight per piece (excluding packing)	845.3 g
Customs tariff number	85444290
Country of origin	US

SAC-5P-15,0-542/M12FS SH BK - Sensor/actuator cable



1418053

<https://www.phoenixcontact.com/us/products/1418053>

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard, U.S. cables
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

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
-----------------------------	------------

Signaling

Status display	no
Status display present	no

Connection data

Conductor connection

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

Connector

SAC-5P-15,0-542/M12FS SH BK - Sensor/actuator cable



1418053

<https://www.phoenixcontact.com/us/products/1418053>

Connection 1

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

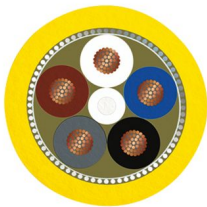
Connection 2

Type	Socket straight M12
Number of positions	5
Coding type	A

Cable/line

Cable length	15 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	7x 0.25 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
Flame resistance	FT4
Other resistance	UV resistant

SAC-5P-15,0-542/M12FS SH BK - Sensor/actuator cable



1418053

<https://www.phoenixcontact.com/us/products/1418053>

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) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)

Standards and regulations

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

SAC-5P-15,0-542/M12FS SH BK - Sensor/actuator cable

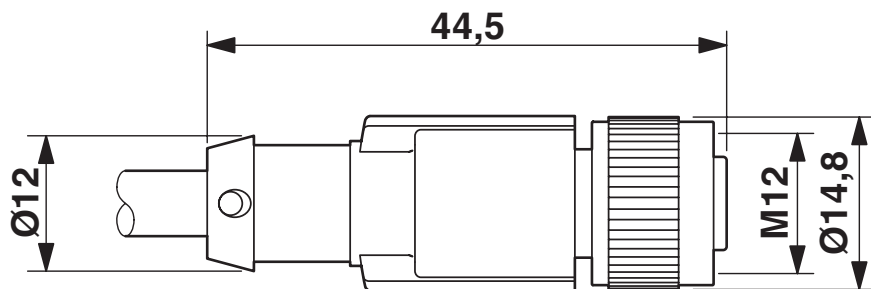


1418053

<https://www.phoenixcontact.com/us/products/1418053>

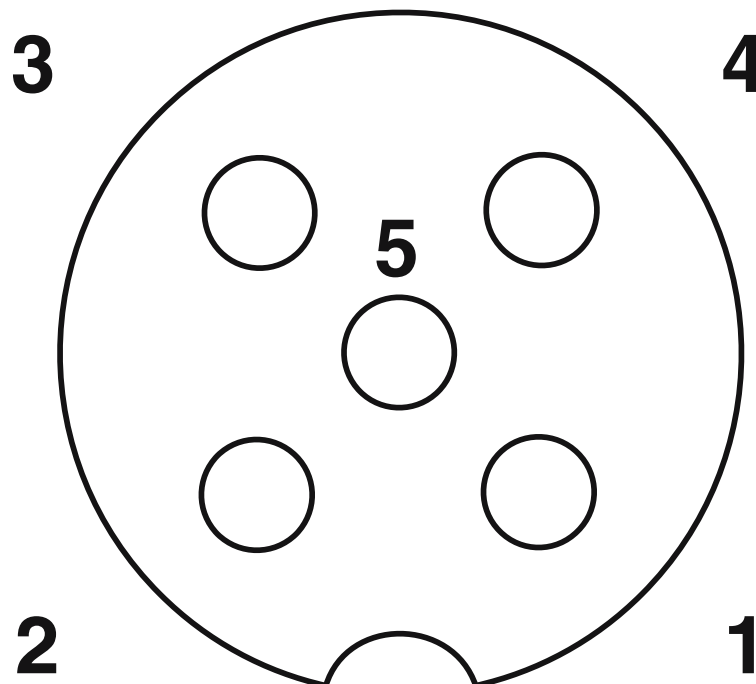
Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Schematic diagram



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

SAC-5P-15,0-542/M12FS SH BK - Sensor/actuator cable



1418053

<https://www.phoenixcontact.com/us/products/1418053>

Circuit diagram



Contact assignment of the M12 socket

SAC-5P-15,0-542/M12FS SH BK - Sensor/actuator cable



1418053

<https://www.phoenixcontact.com/us/products/1418053>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1418053>

 UL Listed Approval ID: FILE E 221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	125 V	4 A	-	-

 cUL Listed Approval ID: FILE E 221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	125 V	4 A	-	-

SAC-5P-15,0-542/M12FS SH BK - Sensor/actuator cable



1418053

<https://www.phoenixcontact.com/us/products/1418053>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

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

UNSPSC

UNSPSC 21.0	31251501
-------------	----------

SAC-5P-15,0-542/M12FS SH BK - Sensor/actuator cable



1418053

<https://www.phoenixcontact.com/us/products/1418053>

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