

SAC-8P- 1,0-285/FS SH SCO - Sensor/actuator cable



1402262

<https://www.phoenixcontact.com/pc/products/1402262>

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, 8-position, PUR, highly flexible, gray RAL 7001, shielded, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 1 m, Twisted pair cable

Commercial data

Item number	1402262
Packing unit	1 pc
Minimum order quantity	25 pc
Product key	BF1CMA
GTIN	4046356591775
Weight per piece (including packing)	98.4 g
Weight per piece (excluding packing)	98.4 g
Customs tariff number	85444290
Country of origin	PL

SAC-8P- 1,0-285/FS SH SCO - Sensor/actuator cable



1402262

<https://www.phoenixcontact.com/pc/products/1402262>

Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	8
No. of cable outlets	1
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	2 A

Signaling

Status display	no
Status display present	No

Connector

Connection 1

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

Connection 2

Type	Socket straight M12 SPEEDCON
Number of positions	8
Locking type	SPEEDCON
Coding type	A

Cable/line

Cable length	1 m
--------------	-----

PUR, gray, shielded [285]

SAC-8P- 1,0-285/FS SH SCO - Sensor/actuator cable



1402262

<https://www.phoenixcontact.com/pc/products/1402262>

Dimensional drawing	
Number of positions	8
Shielded	yes
Cable type	PUR, gray, shielded [285]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	4x 2x 0.25 mm² (Signal line) 1x 0.25 mm² (Drain wire)
External cable diameter	7.60 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	gray RAL 7001
Conductor material	Bare Cu litz wires
Material wire insulation	PES
Single wire, color	white-brown, green-yellow, gray-pink, blue-red
Twisted pairs	2 cores to the pair
Overall twist	4 pairs for core
Optical shield covering	85 %
Insulation resistance	≥ 100 MΩ*km
Nominal voltage, cable	350 V
Test voltage	1200 V
Minimum bending radius, flexible installation	7.5 x D
Smallest bending radius, movable installation	57 mm
Max. bending cycles	3000000
Bending radius	100 mm
Traversing path	1.2 m
Traversing rate	1.4 m/s
Acceleration	2 m/s²
Resistance to oil	very good oil and chemical resistance
Other resistance	Ozone and UV resistant Low adhesion abrasion-resistant notch tough
Ambient temperature (operation)	-50 °C ... 80 °C (cable, fixed installation) -40 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

SAC-8P- 1,0-285/FS SH SCO - Sensor/actuator cable



1402262

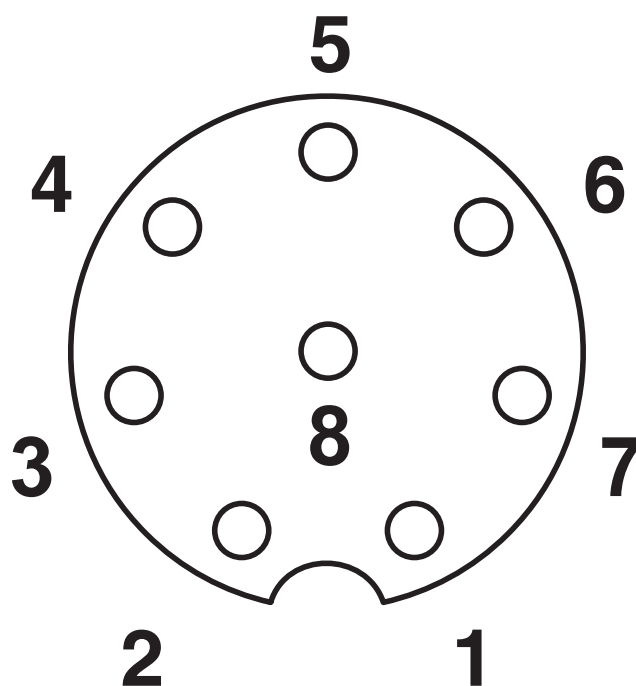
<https://www.phoenixcontact.com/pc/products/1402262>

Ambient conditions

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

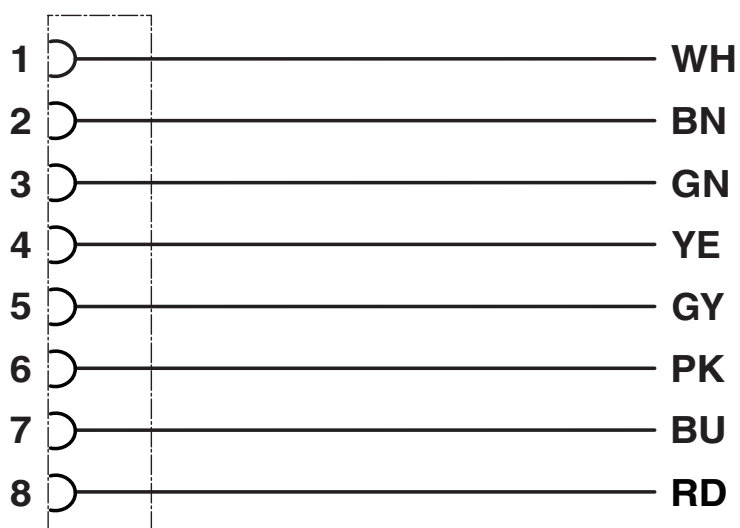
Drawings

Schematic diagram

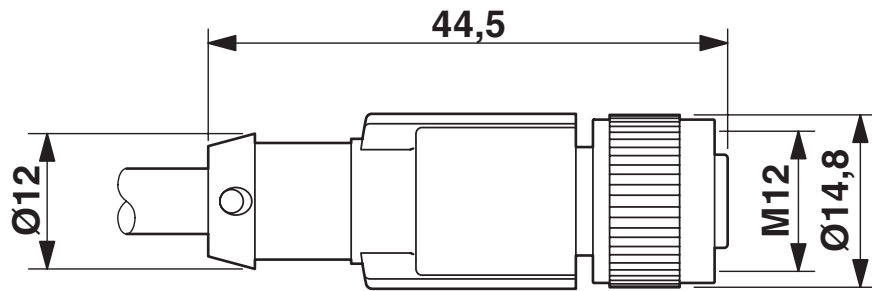


Pin assignment M12 socket, 8-pos., A-coded, view female side

Circuit diagram



Dimensional drawing



M12 x 1 socket, straight, shielded

SAC-8P- 1,0-285/FS SH SCO - Sensor/actuator cable



1402262

<https://www.phoenixcontact.com/pc/products/1402262>

Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-13.0	27060311

SAC-8P- 1,0-285/FS SH SCO - Sensor/actuator cable



1402262

<https://www.phoenixcontact.com/pc/products/1402262>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

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.)	Lead(CAS: 7439-92-1)
-------------------------------------	----------------------

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com