

SAC-12P-15,0-35T/FS SH SCO - Sensor/actuator cable

1402176
<https://www.phoenixcontact.com/us/products/1402176>

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, 12-position, PUR/PVC, black RAL 9005, shielded, free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 15 m

Commercial data

Item number	1402176
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	BF1CNA
GTIN	4046356586962
Weight per piece (including packing)	1,392.4 g
Weight per piece (excluding packing)	1,372.2 g
Customs tariff number	85444290
Country of origin	DE

SAC-12P-15,0-35T/FS SH SCO - Sensor/actuator cable



1402176

<https://www.phoenixcontact.com/us/products/1402176>

Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	12
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	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

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	30 V AC
	30 V DC
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
Number of positions	12
Locking type	SPEEDCON
Coding type	A

Cable/line

Cable length	15 m
--------------	------

SAC-12P-15,0-35T/FS SH SCO - Sensor/actuator cable



1402176

<https://www.phoenixcontact.com/us/products/1402176>

Black PUR/PVC twisted pair [35T]

Dimensional drawing	
Cable weight	87 kg/km
UL AWM Style	20233 / 1061 (80°C/300 V)
Number of positions	12
Shielded	yes
Cable type	Black PUR/PVC twisted pair [35T]
Conductor structure signal line	18x 0.10 mm
AWG signal line	26
Conductor cross section	12x 0.14 mm ² (Signal line)
Wire diameter incl. insulation	1 mm ±0.05 mm (Signal line)
External cable diameter	8.50 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PVC
Single wire, color	white-brown, green-yellow, gray-pink, blue-red, black-violet, gray/pink-red/blue
Twisted pairs	2 cores to the pair
Overall twist	Six pairs around the filler to the core
Optical shield covering	85 %
Max. conductor resistance	≤ 142 Ω/km (at 20 °C)
Insulation resistance	≥ 10 MΩ*km (at 20 °C)
Nominal voltage, cable	42 V AC
Test voltage	1500 V AC
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	43 mm
Smallest bending radius, movable installation	85 mm
Max. bending cycles	2000000
Flame resistance	According to DIN EN 60332-1-2 According to VW-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	hydrolysis and microbe resistant (in accordance with EN 50396)
Special properties	Flexible cable conduit capable
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)

SAC-12P-15,0-35T/FS SH SCO - Sensor/actuator cable



1402176
<https://www.phoenixcontact.com/us/products/1402176>

	-5 °C ... 80 °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)
	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

SAC-12P-15,0-35T/FS SH SCO - Sensor/actuator cable

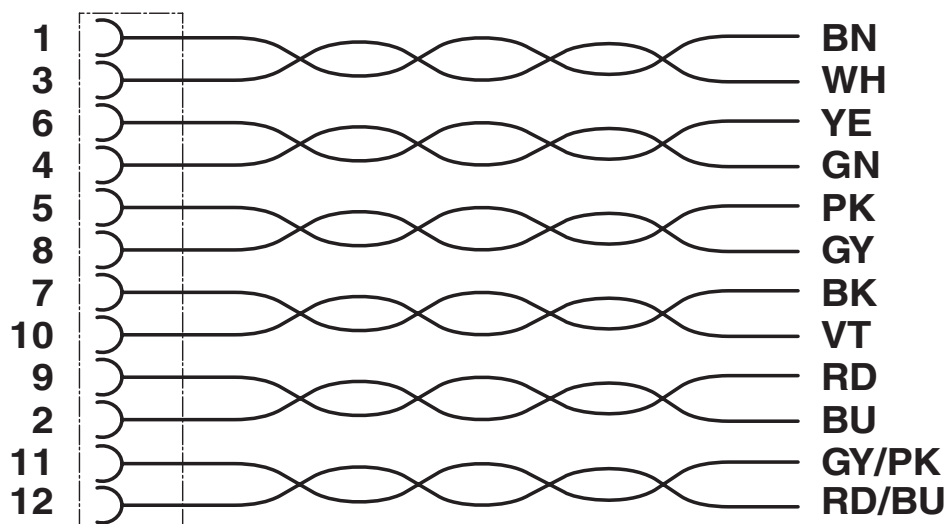


1402176

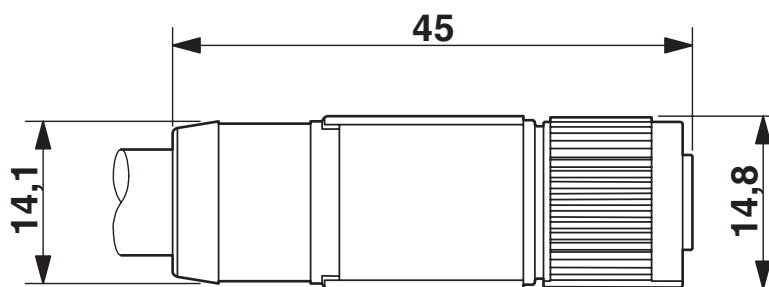
<https://www.phoenixcontact.com/us/products/1402176>

Drawings

Circuit diagram



Dimensional drawing



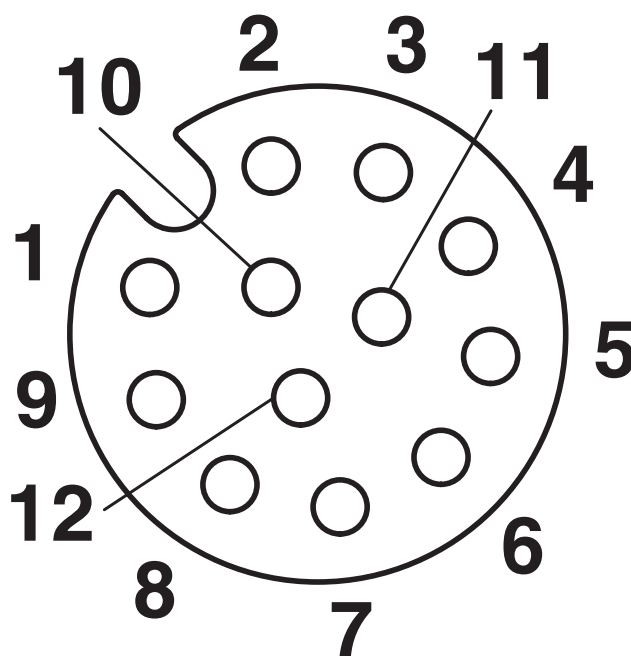
Socket M12-SPEEDCON, straight, shielded

SAC-12P-15,0-35T/FS SH SCO - Sensor/actuator cable

1402176

<https://www.phoenixcontact.com/us/products/1402176>

Schematic diagram



Pin assignment M12, 12-pos., female side view

SAC-12P-15,0-35T/FS SH SCO - Sensor/actuator cable



1402176
<https://www.phoenixcontact.com/us/products/1402176>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1402176>

	UL Listed Approval ID: FILE E 221474			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	30 V	1 A	-	-

SAC-12P-15,0-35T/FS SH SCO - Sensor/actuator cable



1402176

<https://www.phoenixcontact.com/us/products/1402176>

Classifications

ECLASS

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

ETIM

ETIM 8.0	EC001855
----------	----------

UNSPSC

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

1402176
<https://www.phoenixcontact.com/us/products/1402176>

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 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