

SAC-17P-MS/3,0-35T/FS SH SCO - Sensor/actuator cable



1414114

<https://www.phoenixcontact.com/us/products/1414114>

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, 17-position, PUR/PVC, black RAL 9005, shielded, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 3 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Save time, thanks to installation with SPEEDCON fast locking system
- Save space – with high-pos. connectors
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1414114
Packing unit	1 pc
Minimum order quantity	25 pc
Sales key	BF03
Product key	AF1CNA
GTIN	4055626192482
Weight per piece (including packing)	362 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	DE

SAC-17P-MS/3,0-35T/FS SH SCO - Sensor/actuator cable



1414114

<https://www.phoenixcontact.com/us/products/1414114>

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	17
Shielded	yes

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	V0
--	----

Electrical properties

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	Plug straight M12 SPEEDCON
Number of positions	17
Locking type	SPEEDCON
Coding type	A

Connection 2

Type	Socket straight M12 SPEEDCON
Number of positions	17
Locking type	SPEEDCON
Coding type	A

Cable/line

Cable length	3 m
--------------	-----

Black PUR/PVC twisted pair [35T]

SAC-17P-MS/3,0-35T/FS SH SCO - Sensor/actuator cable



1414114

<https://www.phoenixcontact.com/us/products/1414114>

Dimensional drawing	
Cable weight	105 kg/km
UL AWM Style	20233 / 1061 (80°C/300 V)
Number of positions	17
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	17x 0.14 mm ² (Signal line)
Wire diameter incl. insulation	1 mm ±0.05 mm (Signal line)
External cable diameter	9.20 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, white/green-brown/green, white/yellow-yellow/brown-white/gray
Overall twist	7 pairs and 1 three-way unit, intertwisted
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	46 mm
Smallest bending radius, movable installation	92 mm
Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 92 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
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)	-30 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

SAC-17P-MS/3,0-35T/FS SH SCO - Sensor/actuator cable



1414114
<https://www.phoenixcontact.com/us/products/1414114>

Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP65
	IP68

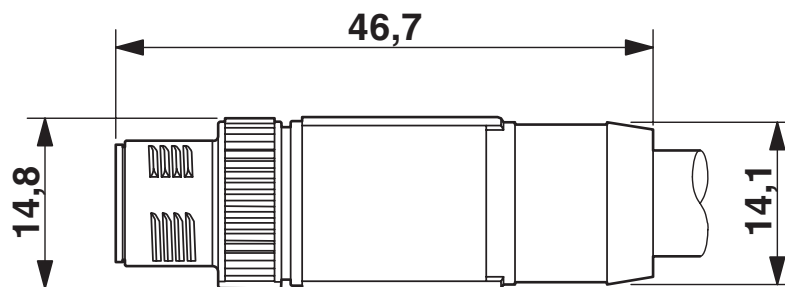
SAC-17P-MS/3,0-35T/FS SH SCO - Sensor/actuator cable

1414114

<https://www.phoenixcontact.com/us/products/1414114>

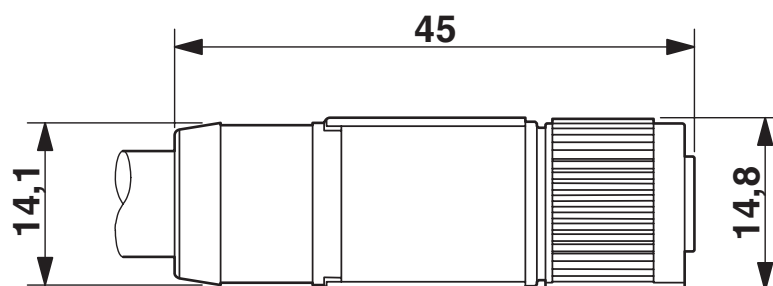
Drawings

Dimensional drawing



M12 SPEEDCON plug, straight, shielded

Dimensional drawing

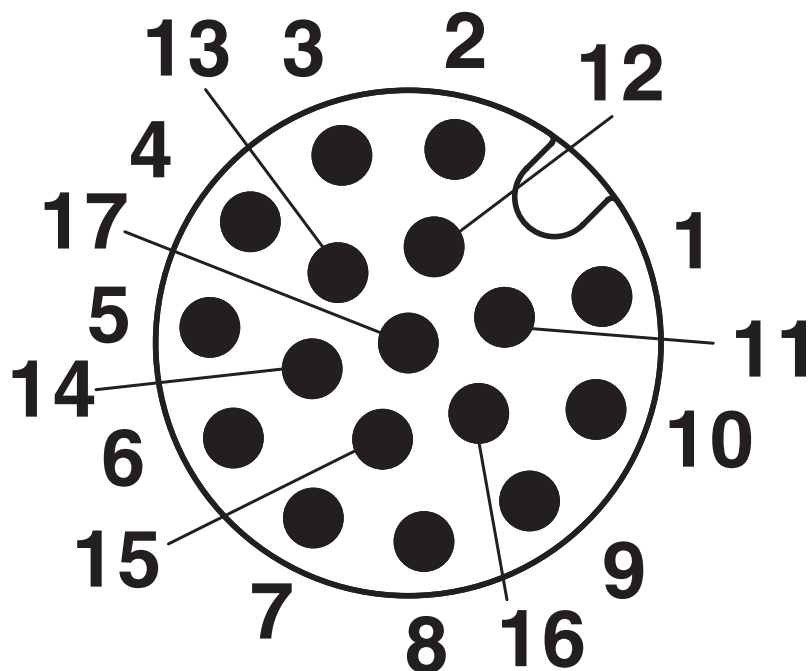


Socket M12-SPEEDCON, straight, shielded

1414114

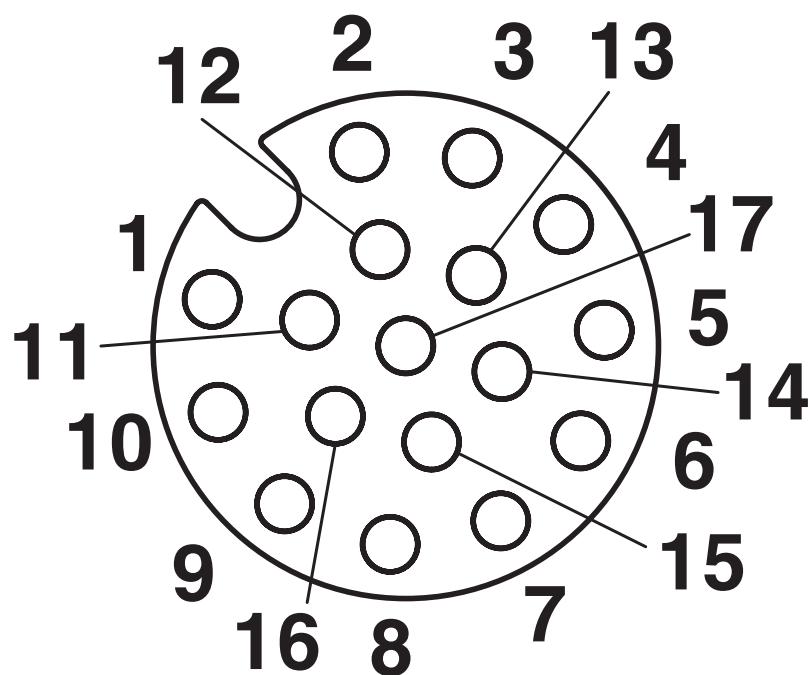
<https://www.phoenixcontact.com/us/products/1414114>

Schematic diagram



Pin assignment M12 male connector, 17-pos., male side view

Schematic diagram



Pin assignment M12, 17-pos., socket side view

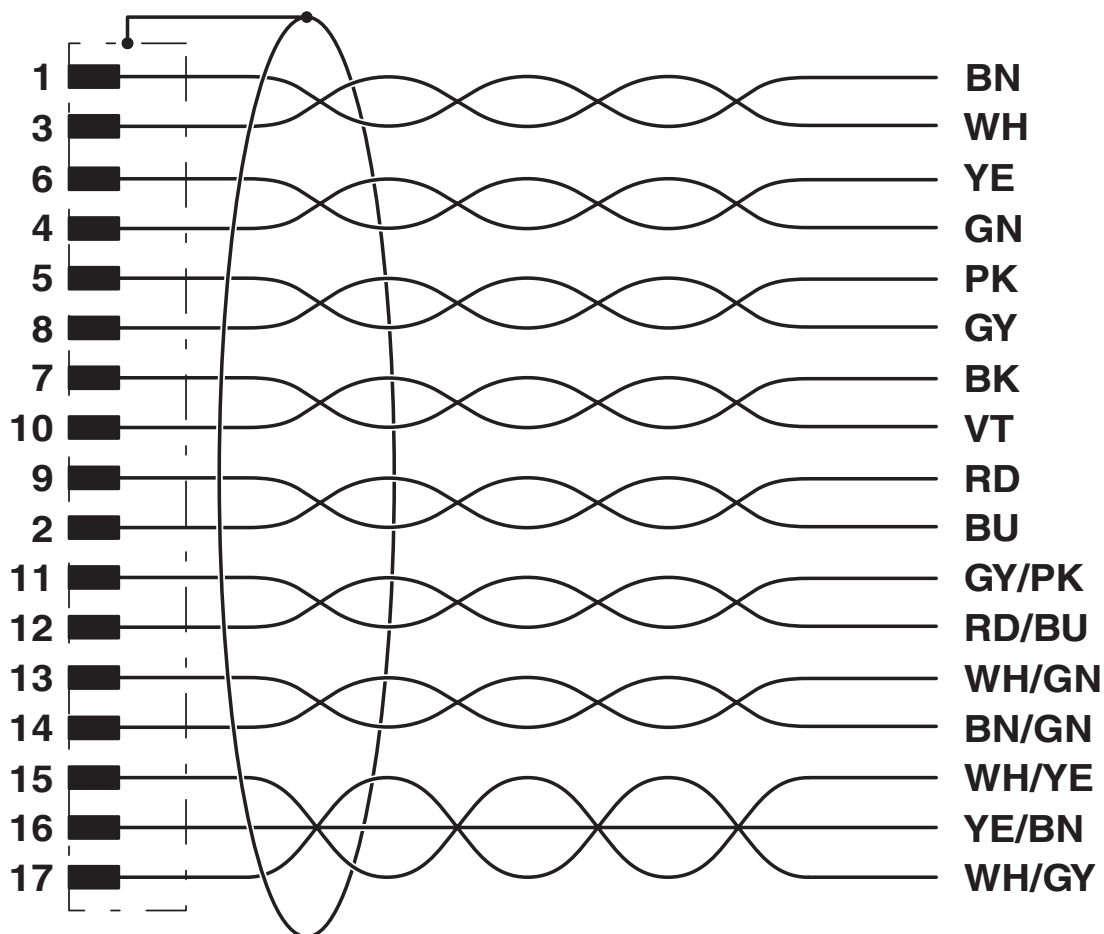
SAC-17P-MS/3,0-35T/FS SH SCO - Sensor/actuator cable



1414114

<https://www.phoenixcontact.com/us/products/1414114>

Circuit diagram



Contact assignment of the M12 plug

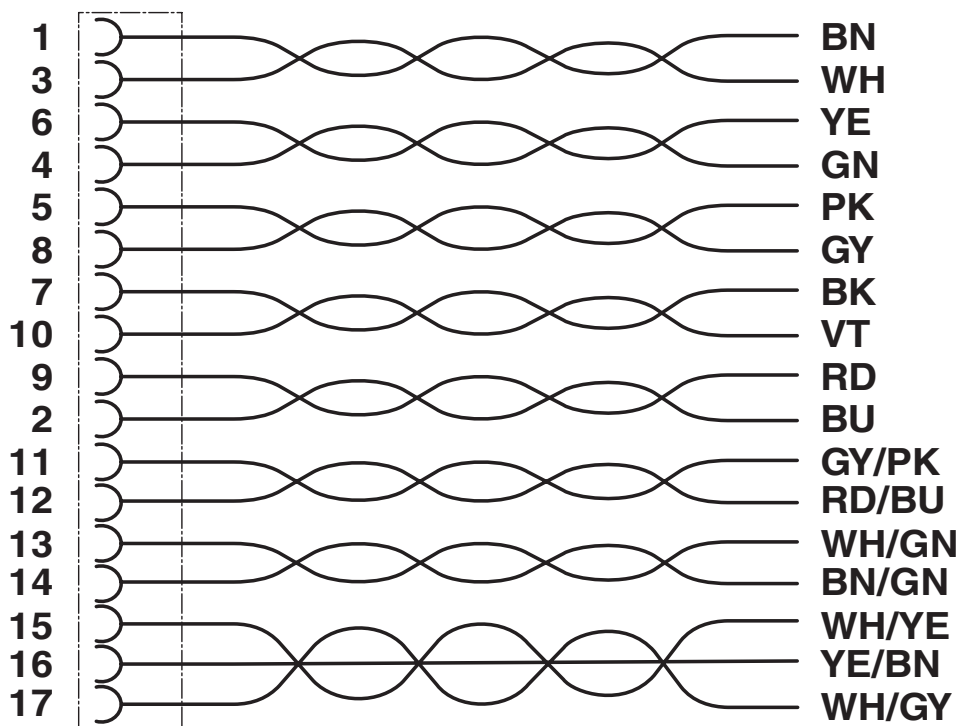
SAC-17P-MS/3,0-35T/FS SH SCO - Sensor/actuator cable



1414114

<https://www.phoenixcontact.com/us/products/1414114>

Circuit diagram



Contact assignment of the M12 socket

1414114
<https://www.phoenixcontact.com/us/products/1414114>

Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414114>

 UL Listed Approval ID: E221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	30 V	1 A	-	-

SAC-17P-MS/3,0-35T/FS SH SCO - Sensor/actuator cable



1414114

<https://www.phoenixcontact.com/us/products/1414114>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

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

UNSPSC

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

1414114
<https://www.phoenixcontact.com/us/products/1414114>

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