

# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable



1430310

<https://www.phoenixcontact.com/sk/products/1430310>

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 (Tinned copper braided shield), free cable end, on Socket straight M12 SPEEDCON, coding: A, cable length: 10 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	1430310
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF1
Product key	BF1CNA
Catalog page	Page 215 (C-2-2019)
GTIN	4046356322584
Weight per piece (including packing)	1,086.9 g
Weight per piece (excluding packing)	1,086.9 g
Customs tariff number	85444290
Country of origin	DE

# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable



1430310

<https://www.phoenixcontact.com/sk/products/1430310>

## Technical data

### Product properties

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

### Connection data

#### Conductor connection

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

### Connector

#### Connection 1

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

#### Connection 2

Type	Socket straight M12 SPEEDCON
Number of positions	17

# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable



1430310

<https://www.phoenixcontact.com/sk/products/1430310>

Locking type	SPEEDCON
Coding type	A

## Cable/line

Cable length	10 m
--------------	------

Black PUR/PVC twisted pair [35T]

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 <sup>2</sup> (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
Max. bending cycles	4000000
Flame resistance	According to DIN EN 60332-1-2 According to VW-1

# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable



1430310

<https://www.phoenixcontact.com/sk/products/1430310>

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)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

## Standards and regulations

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

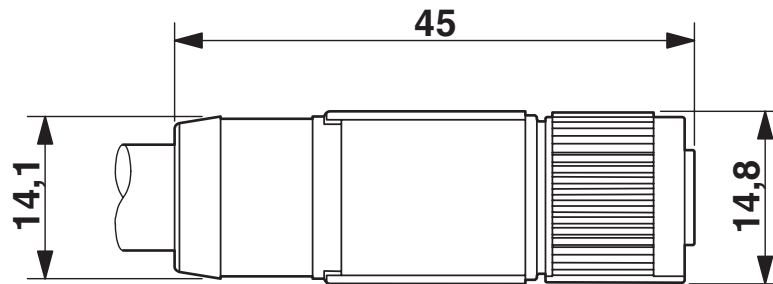
# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable

1430310

<https://www.phoenixcontact.com/sk/products/1430310>

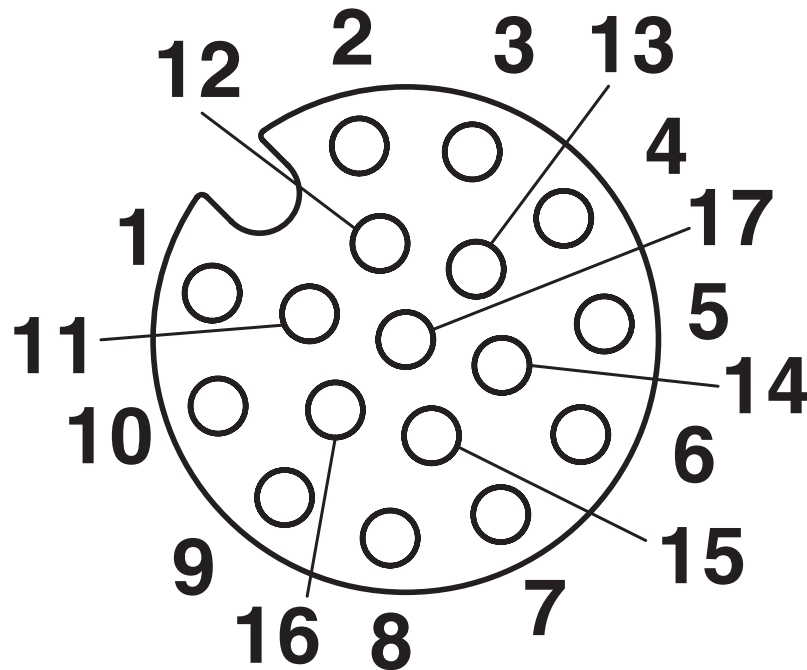
## Drawings

Dimensional drawing



Socket M12-SPEEDCON, straight, shielded

Schematic diagram



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

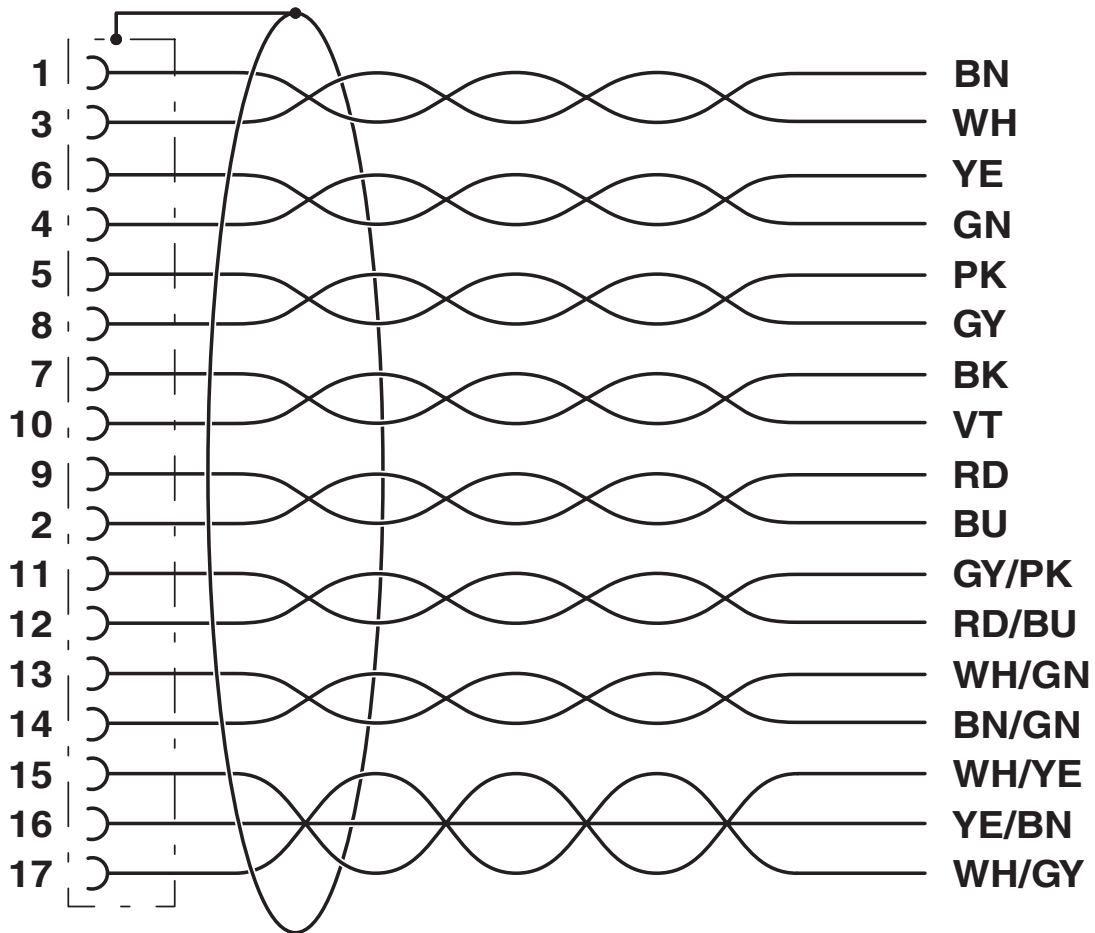
# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable



1430310

<https://www.phoenixcontact.com/sk/products/1430310>

Circuit diagram



# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable



1430310

<https://www.phoenixcontact.com/sk/products/1430310>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sk/products/1430310>



### UL Listed

Approval ID: FILE E 221474

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	30 V	1 A	-	-



### EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387

# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable



1430310

<https://www.phoenixcontact.com/sk/products/1430310>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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



# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable



1430310

<https://www.phoenixcontact.com/sk/products/1430310>

## 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%
-------------------------------------	----------------------------

### EF3.0 Climate Change

CO2e kg	7.181 kg CO2e
---------	---------------

# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable



1430310

<https://www.phoenixcontact.com/sk/products/1430310>

## Accessories

### UCT-WMT (23X4) - Conductor marker

0801453

<https://www.phoenixcontact.com/sk/products/0801453>



Conductor marker, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: insert, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 30

---

### UC-WMT (23X4) - Conductor marker

0819411

<https://www.phoenixcontact.com/sk/products/0819411>



Conductor marker, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: insert, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 24

# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable



1430310

<https://www.phoenixcontact.com/sk/products/1430310>

## US-WMT (23X4) - Cable marker

0828769

<https://www.phoenixcontact.com/sk/products/0828769>



Cable marker, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: slide-on, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 56

---

## WMTW (23X4)R - Cable marker

0831004

<https://www.phoenixcontact.com/sk/products/0831004>



Cable marker, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: insert, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 3000

# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable

1430310

<https://www.phoenixcontact.com/sk/products/1430310>

## WP-CTA POM 13,0 BK - Protective hose adapter

1422884

<https://www.phoenixcontact.com/sk/products/1422884>



Protective hose adapter, for corrugated hoses with a nominal size of 13 (10 x 13), corrugated in parallel

---

## WP-PA HF 13,0 BK - Protective hose

3240681

<https://www.phoenixcontact.com/sk/products/3240681>



Protective hose, material: PA 6, UV-resistant: yes, flexible, degree of protection: IP68, color: black, flammability rating in acc. with UL 94: V0, inner diameter: 10 mm, Total length: 50 m

# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable



1430310

<https://www.phoenixcontact.com/sk/products/1430310>

## WP-PA HF-HB 13,0 BK - Protective hose

3240839

<https://www.phoenixcontact.com/sk/products/3240839>



Protective hose, material: PA 6, UV-resistant: yes, flexible, degree of protection: IP68, color: black, flammability rating in acc. with UL 94: HB, inner diameter: 10 mm, Total length: 50 m

---

## PROT-M12 MS-PA-CHAIN - Screw plug

1430899

<https://www.phoenixcontact.com/sk/products/1430899>

M12 sealing cap with fixing band, for sensor cables, for free M12 sockets



# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable



1430310

<https://www.phoenixcontact.com/sk/products/1430310>

## SAC-M12-EXCLIP-F - Locking clip

1558991

<https://www.phoenixcontact.com/sk/products/1558991>



Locking clip for the socket side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools

---

## B-STIFT - Marker pen

1051993

<https://www.phoenixcontact.com/sk/products/1051993>



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable

1430310

<https://www.phoenixcontact.com/sk/products/1430310>

## CUTFOX-S VDE - Diagonal cutter

1212207

<https://www.phoenixcontact.com/sk/products/1212207>



Diagonal cutter for hard (piano wire) and soft wires, VDE 1000 V AC/1500 V DC tested

---

## WIREFOX SAC-1 - Stripping tool

1212757

<https://www.phoenixcontact.com/sk/products/1212757>



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 3.2 to 4.4 mm, any stripping length

# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable

1430310

<https://www.phoenixcontact.com/sk/products/1430310>

## WIREFOX SAC - Stripping tool

1212623

<https://www.phoenixcontact.com/sk/products/1212623>



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from  $\varnothing$  of 4.4 to 7 mm, any stripping length

---

## WIREFOX 10 - Stripping tool

1212150

<https://www.phoenixcontact.com/sk/products/1212150>



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade



# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable

1430310

<https://www.phoenixcontact.com/sk/products/1430310>

## TSD 04 SAC - Torque screwdriver

1208429

<https://www.phoenixcontact.com/sk/products/1208429>



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

---

## TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/sk/products/1212224>



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

# SAC-17P-10,0-35T/FS SH SCO - Sensor/actuator cable



1430310

<https://www.phoenixcontact.com/sk/products/1430310>

## TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

<https://www.phoenixcontact.com/sk/products/1212600>



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

---

## SAC BIT M12-D15 - Tool

1208432

<https://www.phoenixcontact.com/sk/products/1208432>



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

---

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

PHOENIX CONTACT s.r.o.  
Námestie Mateja Korvína 1  
811 07 Bratislava  
+421 2 3210 1470  
[obchod.sk@phoenixcontact.com](mailto:obchod.sk@phoenixcontact.com)