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Sensor/actuator cable, 17-position, PUR halogen-free, black RAL 9005, Plug angled M12 SPEEDCON, coding: A, on free cable end, 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
- Our standard: robust halogen-free PUR cable
- Save space – with high-pos. connectors

## Commercial data

Item number	1430763
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	AF1CGA
GTIN	4046356456586
Weight per piece (including packing)	712.2 g
Weight per piece (excluding packing)	712.2 g
Customs tariff number	85444290
Country of origin	DE

## Technical data

### Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	17
No. of cable outlets	1
Shielded	no
Coding	A

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Material specifications

Flammability rating according to UL 94	V0
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	Plug angled M12 SPEEDCON
Number of positions	17
Locking type	SPEEDCON
Coding type	A

### Connection 2

# SAC-17P-MR/10,0-PUR SCO - Sensor/actuator cable

1430763

<https://www.phoenixcontact.com/us/products/1430763>



Type

free cable end

## Cable/line

Cable length

10 m

PUR halogen-free black [PUR]

Dimensional drawing



Number of positions

17

Shielded

no

Cable type

PUR halogen-free black [PUR]

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

7.80 mm ±0.2 mm

Outer sheath, material

PUR

External sheath, color

black RAL 9005

Conductor material

Tin-plated Cu litz wires

Material wire insulation

PP

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

17 wires twisted in layers

Max. conductor resistance

142 Ω/km

Smallest bending radius, fixed installation

78 mm

Smallest bending radius, movable installation

39 mm

Dynamic load capacity (bending)

Max. bending cycles: 4000000, Bending radius: 60 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s<sup>2</sup>

Resistance to oil

DIN VDE 0472 Part 803, test type B

Other resistance

Hydrolysis and microbe resistant as per VDE 0282 section 10

partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)

Special properties

Low adhesion surface

Ambient temperature (operation)

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

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

## Environmental and real-life conditions

Ambient conditions

# SAC-17P-MR/10,0-PUR SCO - Sensor/actuator cable

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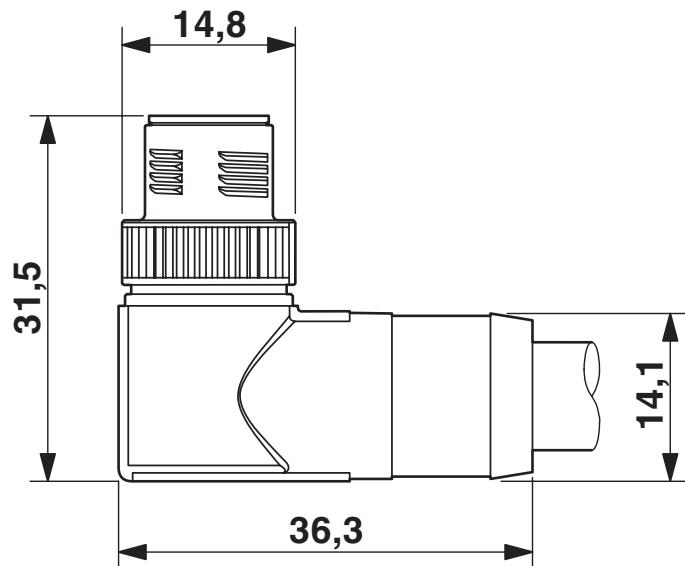
Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug / socket)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-5 °C ... 80 °C (Cable, flexible installation)

## Standards and regulations

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

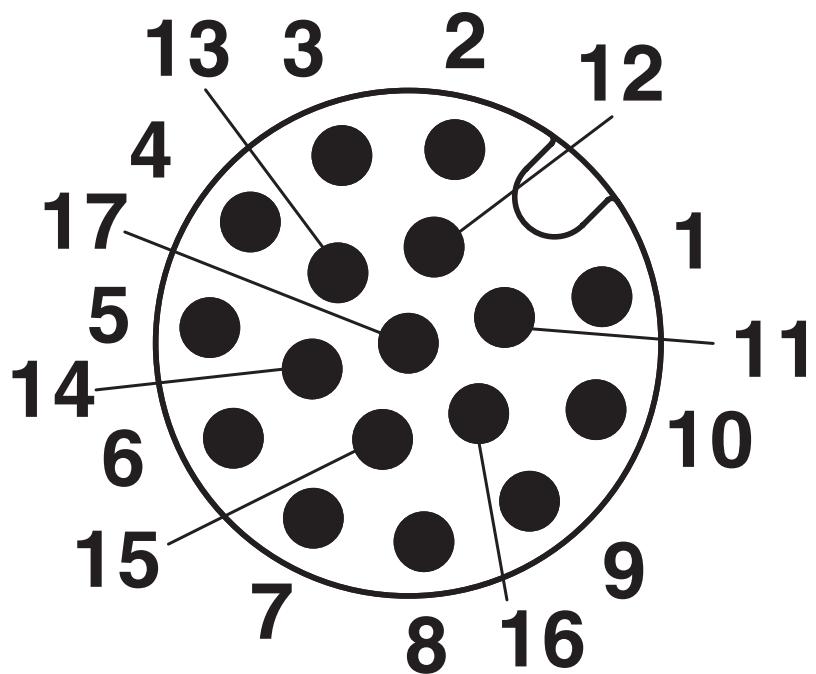
## Drawings

Dimensional drawing



Plug M12 SPEEDCON, angled, shielded

Schematic diagram



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

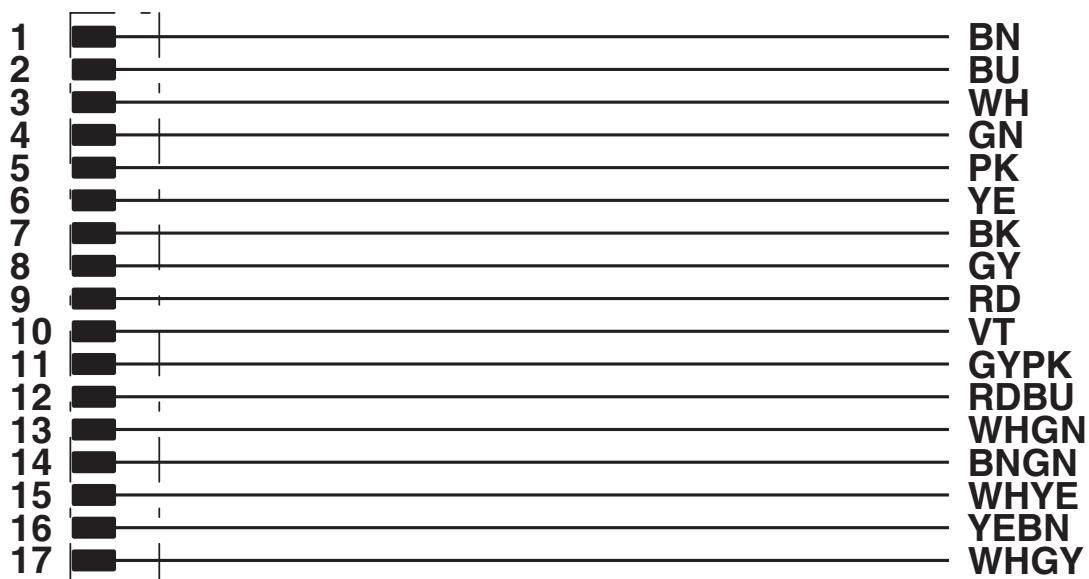
# SAC-17P-MR/10,0-PUR SCO - Sensor/actuator cable

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Circuit diagram



Contact assignment of the M12 plug

# SAC-17P-MR/10,0-PUR SCO - Sensor/actuator cable

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1430763>

	UL Listed	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine		30 V	1 A	-	-

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

## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

### ETIM

ETIM 9.0	EC001855
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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### EF3.0 Climate Change

CO2e kg	6.082 kg CO2e
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