

SAC-17P-MS/5,0-35T/FS SH SCO - Sensor/actuator cable



1402421

<https://www.phoenixcontact.com/us/products/1402421>

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Sensor/actuator cable, 17-pos., PUR/PVC, RAL 9005 (black), shielded, straight M12 SPEEDCON male plug (A-coded) to straight M12 SPEEDCON female plug, cable length: 5 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	1402421
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	AF1CNA
GTIN	4046356615419
Weight per piece (including packing)	575.65 g
Weight per piece (excluding packing)	560 g
Customs tariff number	85444290
Country of origin	DE

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<https://www.phoenixcontact.com/us/products/1402421>

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
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

Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I_N	1.5 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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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
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Number of positions	17
Locking type	SPEEDCON
Coding type	A

Cable/line

Cable length	5 m
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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 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

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	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)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 IP67
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

M12

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

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1402421

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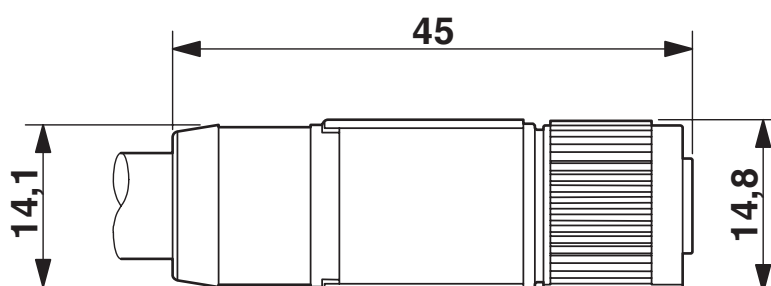
Drawings

Dimensional drawing



M12 SPEEDCON plug, straight, shielded

Dimensional drawing



Socket M12-SPEEDCON, straight, shielded

SAC-17P-MS/5,0-35T/FS SH SCO - Sensor/actuator cable

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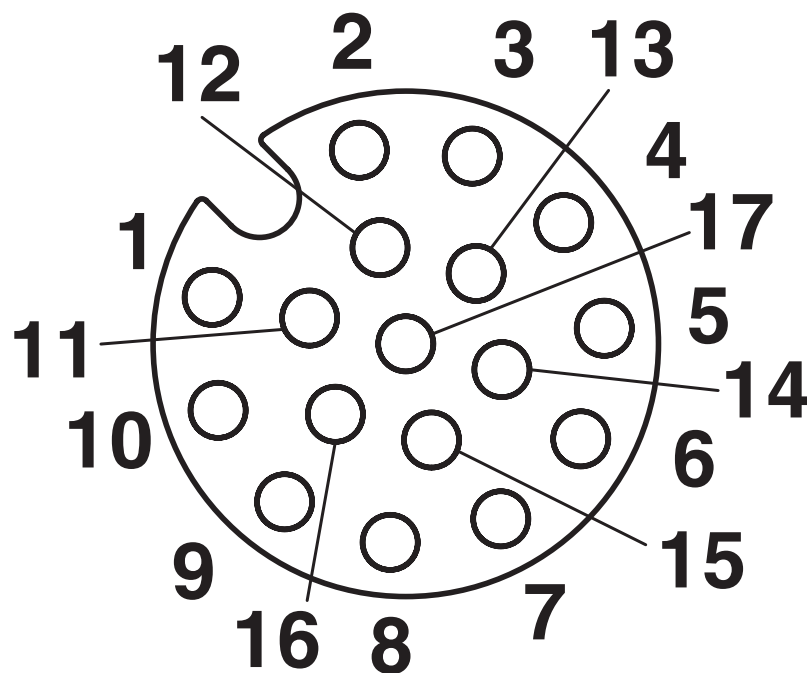
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Schematic diagram



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

Schematic diagram



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

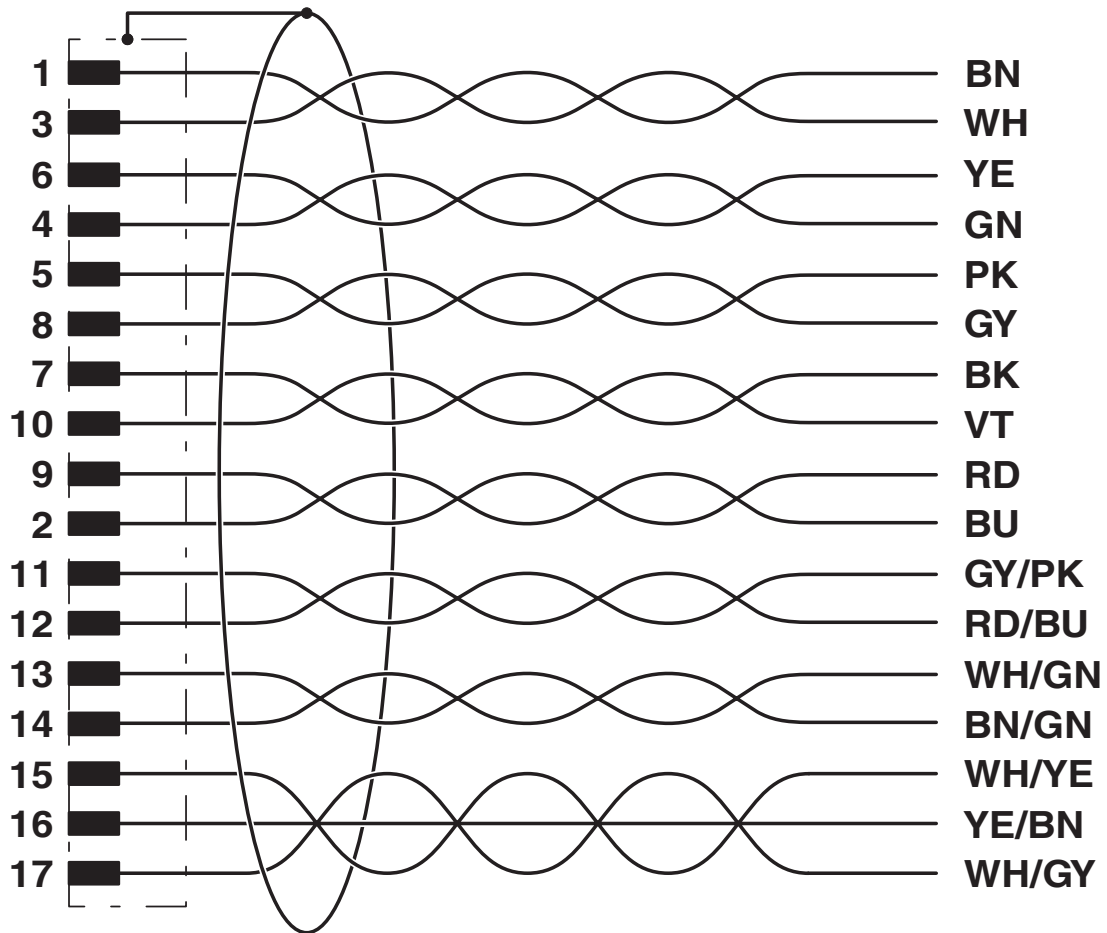
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Circuit diagram



Contact assignment of the M12 plug

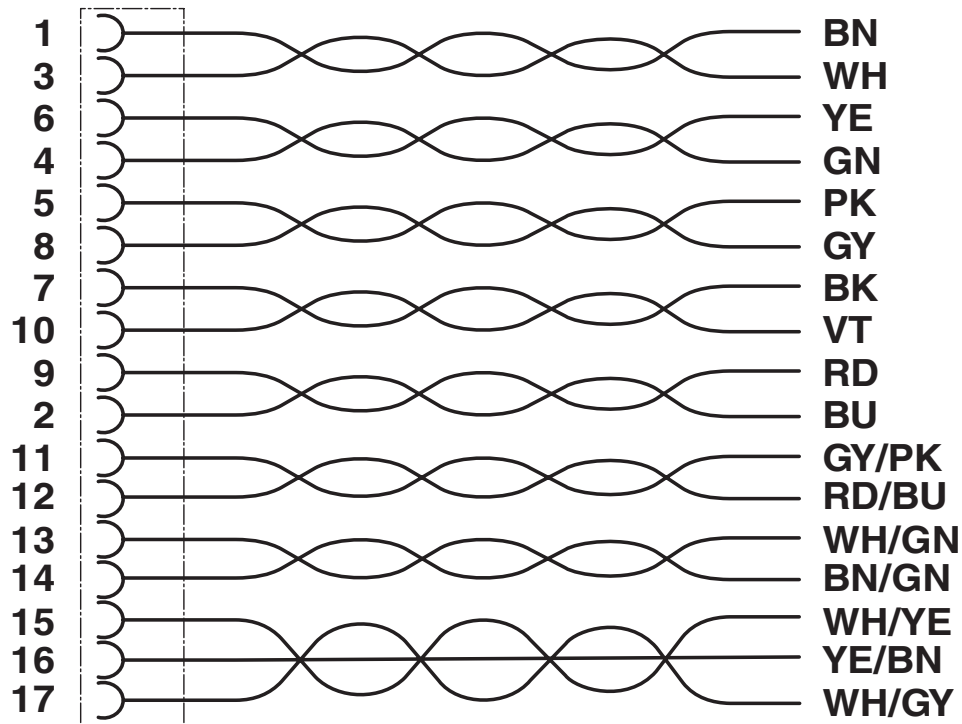
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Circuit diagram



Contact assignment of the M12 socket

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1402421

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1402421>

 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	-	-

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Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 10.0	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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EF3.1 Climate Change

CO2e kg	9.355 kg CO2e
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