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Sensor/Actuator cable - SAC-17P-MS/3,0-35T/FS SH SCO - 1414114

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

Why buy this product

- 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

Key Commercial Data

Packing unit	1 STK
Minimum order quantity	25 STK
Weight per Piece (excluding packing)	7.2 g
Custom tariff number	85444290
Country of origin	Germany

Technical data

Environmental Product Compliance

REACh SVHC	DOTE 15571-58-1

Dimensions

Length of cable	3 m

General

Rated current at 40°C	1.5 A
Rated voltage	30 V

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Technical data

General

Number of positions	17
Status display	No
Protective circuit/component	Unwired
Overvoltage category	II
Degree of pollution	3

Material

Flammability rating according to UL 94	V0

Standards and Regulations

Flammability rating according to UL 94	V0

Cable

Cable type	Black PUR/PVC twisted pair
Cable type (abbreviation)	35T
Cable abbreviation	LSYWC11Y
UL AWM style	20233 / 1061 (80°C/300 V)
Conductor cross section	17x 0.14 mm² (Signal line)
AWG signal line	26
Conductor structure signal line	18x 0.10 mm
Core diameter including insulation	1 mm ±0.05 mm (Signal line)
Wire colors	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
Shielding	Tinned copper braided shield
Optical shield covering	85 %
External sheath, color	black RAL 9005
External cable diameter D	9.2 mm ±0.2 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	4000000
Bending radius	92 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s²
Cable weight	105 kg/km
Outer sheath, material	PUR
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires

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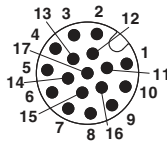
Technical data

Cable

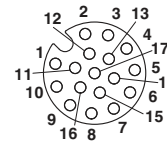|	
Insulation resistance	≥ 10 MΩ*km (at 20 °C)
Conductor resistance	142 Ω/km (at 20 °C)
Nominal voltage, cable	42 V AC
Test voltage, cable	1500 V AC
Special properties	Flexible cable conduit capable
Flame resistance	According to DIN EN 60332-1-2
	According to VW-1
Halogen-free	According to EN 50267-2-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	hydrolysis and microbe resistant according to EN 50396
Ambient temperature (operation)	-30 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (cable, flexible installation)

Drawings

Schematic diagram

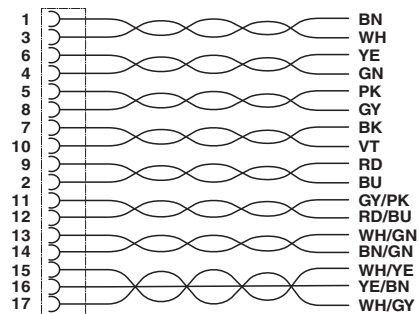Pin assignment M12 male connector, 17-pos., male side view

Schematic diagram

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

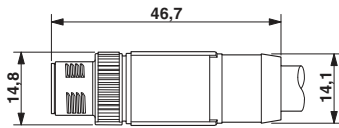Cable cross section

Black PUR/PVC twisted pair [35T]
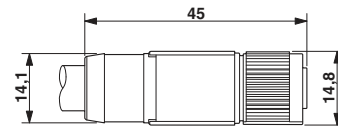
Circuit diagram

1	BN
3	WH
6	YE
4	GN
5	PK
8	GY
7	BK
10	VT
9	RD
2	BU
11	GY/PK
12	RD/BU
13	WH/GN
14	BN/GN
15	WH/YE
16	YE/BN
17	WH/GY

Contact assignment of the M12 socket

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Dimensional drawing

Dimensional drawing

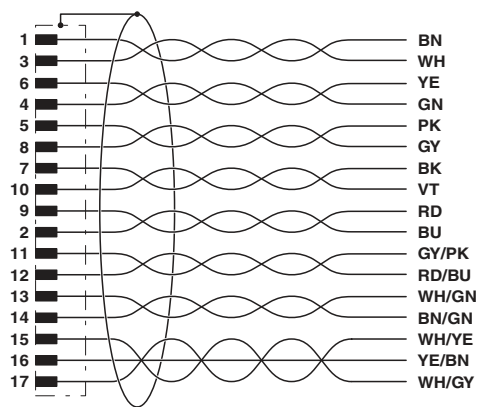M12 SPEEDCON plug, straight, shielded

Socket M12-SPEEDCON, straight, shielded

Circuit diagram

1	BN
3	WH
6	YE
4	GN
5	PK
8	GY
7	BK
10	VT
9	RD
2	BU
11	GY/PK
12	RD/BU
13	WH/GN
14	BN/GN
15	WH/YE
16	YE/BN
17	WH/GY

Contact assignment of the M12 plug

Classifications

eCl@ss

eCl@ss 5.1	27061801
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 5.0	EC001855

Accessories

Accessories

Conductor marking

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Accessories

Insert label - PABA WH/15 - 1013151

Insert label, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Insert label - PABA YE/15 - 1013698

Insert label, Strip, yellow, unlabeled, can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Insert label - PABA RD/15 - 1013944

Insert label, Strip, red, unlabeled, can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Marker carrier cable

Conductor marker carrier - PATO 2/15 - 1013122

Conductor marker carrier, transparent, unlabeled, Mounting type: clip on, Cable diameter: 2.8-4.4 mm, Lettering field: 4 x 15 mm

Conductor marker carrier - PATO 3/15 - 1013135

Conductor marker carrier, transparent, unlabeled, Mounting type: clip on, Cable diameter: 4.4-6.7 mm, Lettering field: 4 x 15 mm

Sensor/Actuator cable - SAC-17P-MS/3,0-35T/FS SH SCO - 1414114

Accessories

Conductor marker carrier - PATO 4/15 - 1013148

Conductor marker carrier, transparent, unlabeled, Mounting type: clip on, Cable diameter: 6.7-10 mm, Lettering field: 4 x 15 mm

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Marker pen

Marker pen - B-STIFT - 1051993

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

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Protective cap

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873

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

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Screw plug - PROT-M12 MS-PA-CHAIN - 1430899

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

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Safety locking

Sensor/Actuator cable - SAC-17P-MS/3,0-35T/FS SH SCO - 1414114

Accessories

Locking clip - SAC-M12-EXCLIP-M - 1558988

Locking clip for the pin 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

Locking clip - SAC-M12-EXCLIP-F - 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

Screwdriver tools

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600

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

Tool - SAC BIT M12-D15 - 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

Torque tool

Torque screwdriver - TSD 04 SAC - 1208429

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

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Accessories

Torque screwdriver - TSD-M 1,2NM - 1212224

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