Sensor/Actuator cable - SAC-17P-MS/5,0-35T/M23FS SHSCO - 1437436

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's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Sensor/Actuator cable, 17-position, PUR/PVC, Black RAL 9005, shielded, Plug straight M12 SPEEDCON, A-coded, on Socket straight M23, Cable length: 5 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 pc
GTIN	4 046356 456340
Weight per Piece (excluding packing)	592.0 g
Custom tariff number	85444290
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Dimensions

Length of cable	5 m

Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-40 °C ... 125 °C (Plug / socket)
Degree of protection	IP65
	IP67

General

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

Sensor/Actuator cable - SAC-17P-MS/5,0-35T/M23FS SHSCO - 1437436

Technical data

General

Number of positions	17
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Protective circuit/component	Unwired
Surge voltage category	II
Pollution degree	3
Torque	0.4 Nm (M12 connector)

Material

Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PBT / PA 66
Material of grip body	PUR
Material, knurls	Nickel-plated brass
Sealing material	FKM

Cable

Cable type	Black PUR/PVC twisted pair
Cable type (abbreviation)	35T
Conductor cross section	0.14 mm²
AWG signal line	26
Conductor structure signal line	18x 0.10 mm
Core diameter including insulation	1 mm ±0.05 mm
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	Eight pairs around the filler to the core
Shielding	Tinned copper braided shield
Optical shield covering	85 %
External sheath, color	Black RAL 9005
External cable diameter	9.20 mm
Number of bending cycles	2000000
Bending radius	92 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s²
Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires

Sensor/Actuator cable - SAC-17P-MS/5,0-35T/M23FS SHSCO - 1437436

Technical data

Cable

Conductor resistance	142 Ω/km
Flame resistance	DIN VDE 0472 part 804, test type B
Resistance to oil	DIN VDE 0472 Part 803, test type B
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (cable, flexible installation)

Classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27279218

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

Approvals

Approvals

Approvals

EAC

Ex Approvals

Sensor/Actuator cable - SAC-17P-MS/5,0-35T/M23FS SHSCO - 1437436

Approvals

Approvals submitted

Approval details

EAC

Accessories

Accessories

Conductor marking

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

Sensor/Actuator cable - SAC-17P-MS/5,0-35T/M23FS SHSCO - 1437436

Accessories

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

---

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

---

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

---

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

---

Safety locking

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

Screwdriver tools

Sensor/Actuator cable - SAC-17P-MS/5,0-35T/M23FS SHSCO - 1437436

Accessories

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 for M12 connectors with QUICKON fast connection technology, 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

---

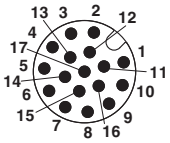
Torque screwdriver - TSD-M 1,2NM - 1212224

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

---

Drawings

Schematic diagram



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

Schematic diagram

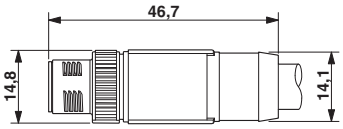
Connector pin assignment M23 socket, 17-pos., female side view

Sensor/Actuator cable - SAC-17P-MS/5,0-35T/M23FS SHSCO - 1437436

Cable cross section

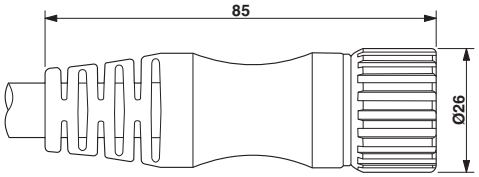
Black PUR/PVC twisted pair [35T]

Dimensioned drawing



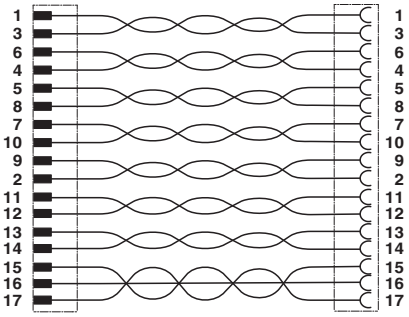
M12 SPEEDCON plug, straight, shielded

Dimensioned drawing



M23 socket, straight, shielded

Circuit diagram



Contact assignment of the M12 plug and the M23 socket

Phoenix Contact 2015 © - all rights reserved
http://www.phoenixcontact.com