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## Sensor/Actuator cable - SAC-12P-MS/5,0-35T/M23FS SHSCO - 1437355

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Sensor/Actuator cable, 12-position, PUR/PVC, Black RAL 9005, shielded, Plug straight M12 SPEEDCON, A-coded, on Socket straight M23, Cable length: 5 m

### Product Features

- ✓ 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
Weight per Piece (excluding packing)	546.7 GRM
Custom tariff number	85444290
Country of origin	Germany

### Technical data

#### Dimensions

Length of cable	5 m
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#### 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

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### Technical data

#### General

Number of positions	12
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 mm <sup>2</sup>
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
Overall twist	Six 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	8.50 mm
Number of bending cycles	2000000
Bending radius	85 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s <sup>2</sup>
Outer sheath, material	PUR

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### Technical data

#### Cable

Material, inner sheath	PVC
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires
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	27061801

#### 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

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# Sensor/Actuator cable - SAC-12P-MS/5,0-35T/M23FS SHSCO - 1437355

## Approvals

Approvals

GOST

Ex Approvals

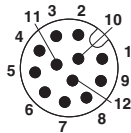
Approvals submitted

Approval details



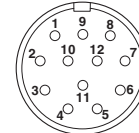
## Drawings

Schematic diagram



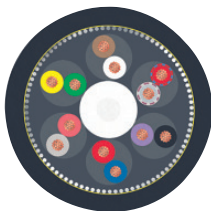
Pin assignment M12 male connector, 12-pos., male side view

Schematic diagram



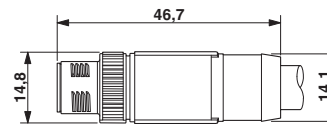
Pin assignment M23 socket, 12-pos., female side view

Cable cross section



Black PUR/PVC twisted pair [35T]

Dimensioned drawing



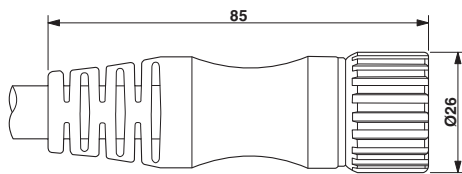
M12 SPEEDCON plug, straight, shielded

<https://www.phoenixcontact.com/us/products/1437355>

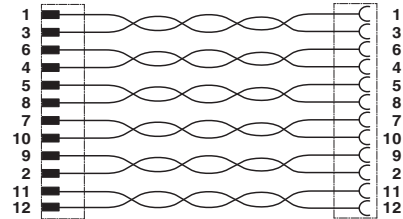


## Sensor/Actuator cable - SAC-12P-MS/5,0-35T/M23FS SHSCO - 1437355

Dimensioned drawing



Circuit diagram



M23 socket, straight, shielded

Contact assignment of the M12 plug and the M23 socket