

Sensor/Actuator cable - SAC-12P-MS/0,5-35T/M23FS SHSCO - 1437326

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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: 0.5 m

Why buy this product

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Key commercial data

Packing unit	0
Minimum order quantity	1
Catalog page	Page 150 (PC-2011)
GTIN	 4 046356 456234
Custom tariff number	85444290
Country of origin	GERMANY

Technical data

General data

Rated current at 40°C	1.5 A
Rated voltage	30 V
Number of positions	12
Volume resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Length of cable	0.5 m
Ambient temperature (operation)	-25 °C ... 90 °C (Male connector / female connector)
Ambient temperature (operation)	-40 °C ... 125 °C (Male connector / female connector)

General characteristics

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Technical data

General characteristics

Standards/regulations	M12 plug-in connector IEC 61076-2-101
Coding	A - standard
Surge voltage category	II
Pollution degree	3
Degree of protection	IP67
Torque	0.4 Nm (M12 plug-in connector)
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
Status display	No

Conductor data

Cable type	Black PUR/PVC twisted pair
Cable type (abbreviation)	35T
Conductor cross section	0.14 mm ²
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 ²
Outer sheath, material	PUR
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)

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Technical data

Conductor data

Ambient temperature (operation)	-5 °C ... 80 °C (cable, flexible installation)
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Classifications

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

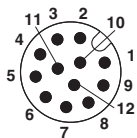
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501
UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501

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
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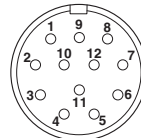
Drawings

Schematic diagram



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

Schematic diagram



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

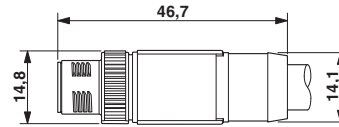
Sensor/Actuator cable - SAC-12P-MS/0,5-35T/M23FS SHSCO - 1437326

Cable cross section



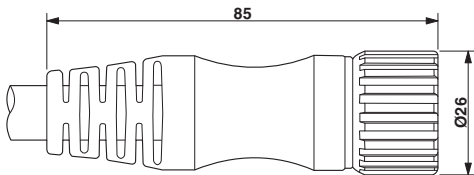
Black PUR/PVC twisted pair [35T]

Dimensioned drawing



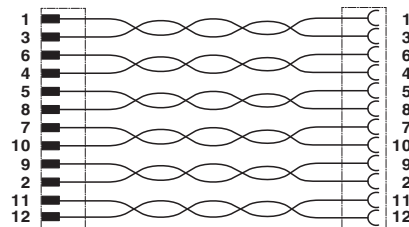
M12 SPEEDCON connector, straight, shielded

Dimensioned drawing



M23 socket, straight, shielded

Circuit diagram



Contact assignment of the M12 plug and the M23 socket