

SAC-12P-MS/1,0-35T/M23FS SHSCO

Order No.: 1437339



Sensor/Actuator cable, 12-position, PUR/PVC, Black RAL 9005, shielded, Plug, straight M12-SPEEDCON, A-coded, on Socket, straight M23, Cable length: 1 m



Product notes

WEEE/RoHS-compliant since:
2009-03-30



Commercial data

EAN	 4 046356 456241
Note	Made-to-order
Pack	1
Customs tariff	85444290
Catalog page information	Page 98 (PC-2009)

Technical data

General data

Rated current at 40°C	1.5 A
Rated voltage	30 V
Number of positions	12
Volume resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Length of cable	1 m

Ambient temperature (operation)	-25 °C ... 90 °C (Male connector / female connector)
	-40 °C ... 125 °C (Male connector / female connector)

General characteristics

Standards/regulations	M12 connector IEC 61076-2-101
Coding	A - standard
Surge voltage category	II
Pollution degree	3
Degree of protection	IP67
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

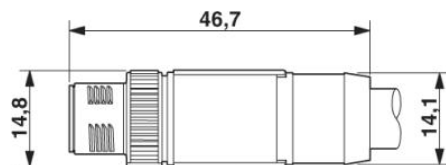
Conductor data

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
External cable diameter	8.50 mm
Wire colors	White-brown, green-yellow, gray-pink, blue-red, black-violet, gray/ pink-red/blue
External sheath, color	Black RAL 9005
Conductor resistance	142 Ω/km
Overall twist	Six pairs around the filler to the core
Shielding	Tinned copper braided shield
Optical shield covering	85 %
Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires
Number of bending cycles	2000000

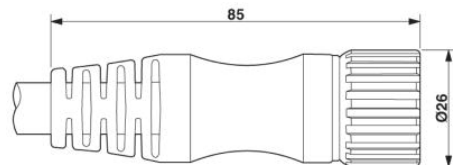
Bending radius	85 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (cable, flexible installation)
Flame resistance	DIN VDE 0472 part 804, test type B
Resistance to oil	DIN VDE 0472 Part 803, test type B
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10

Drawings

Dimensioned drawing

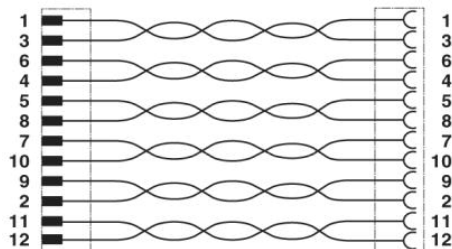


M12 SPEEDCON connector, straight, shielded



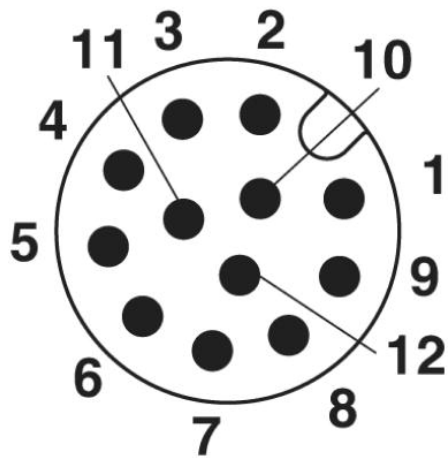
M23 socket, straight, shielded

Circuit diagram

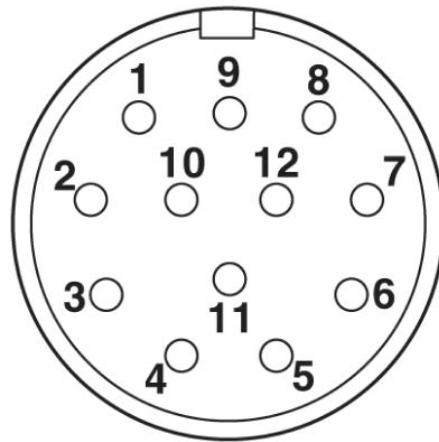


Contact assignment of the M12 plug and the M23 socket

Schematic diagram



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



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