

SAC-12P-M23MS/1,0-35T/FS SHSCO

Order No.: 1437290



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



Commercial data	
EAN	 4 046356 456203
Note	Made-to-order
Pack	1
Customs tariff	85444290
Catalog page information	Page 98 (PC-2009)

Product notes

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



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
Status display	No

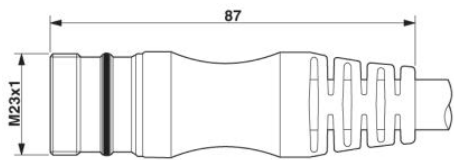
Conductor data

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

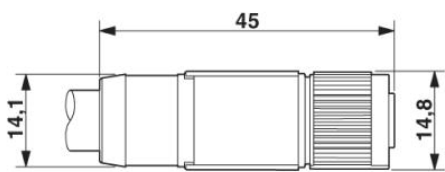
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (cable, flexible installation)
Flame resistance	DIN VDE 0472 part 804, test type B
Resistance to oil	DIN VDE 0472 Part 803, test type B
Other resistance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

Drawings

Dimensioned drawing

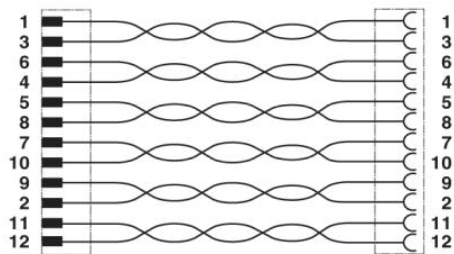


M23 plug, straight, shielded



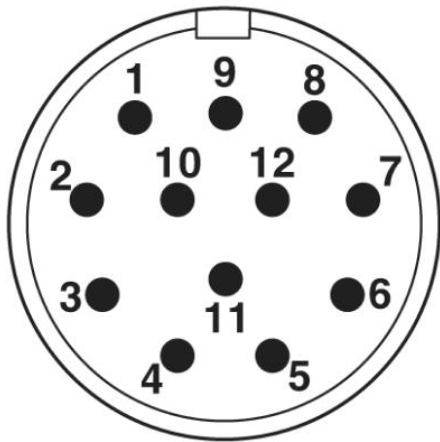
Socket M12-SPEEDCON, straight, shielded

Circuit diagram

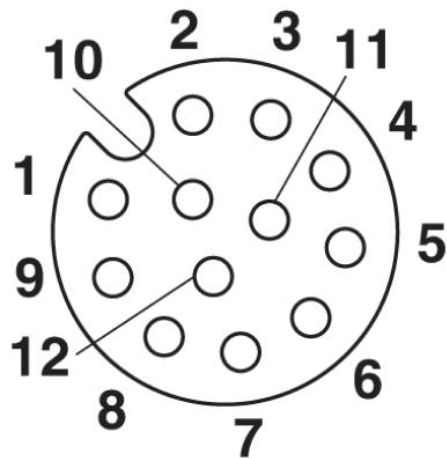


Contact assignment of the M23 plug and the M12 socket

Schematic diagram



Connector pin assignment M23 plug, 12-pos., pin side view



Pin assignment M12, 12-pos., female side view