

## SAC-12P-MS/ 3,0-35T SH SCO

Order No.: 1430051

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1430051>

Sensor/actuator cable, 12-pos., PUR/PVC black, shielded, straight  
M12 SPEEDCON plug on free conductor end, length: 3 m

### Commercial data

EAN	4046356323147
Pack	1 pcs.
Customs tariff	85444290
Weight/Piece	0.2939 KG
Catalog page information	Page 98 (PC-2009)

### Product notes

WEEE/RoHS-compliant since:  
10/10/2007



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### Technical data

#### General data

Nominal current $I_N$	1.5 A
Nominal voltage $U_N$	30 V
Number of positions	12
Volume resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$

Length of cable	3 m
Ambient temperature (operation)	-25 °C ... 90 °C (plug/socket)
	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (cable, flexible installation)

#### General characteristics

Coding	A - standard
Inflammability class acc. to UL 94	V0
Surge voltage category	II
Pollution degree	3
Degree of protection	IP65/IP68/IP69K
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 66
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, (nickel-plated)
Status display	No

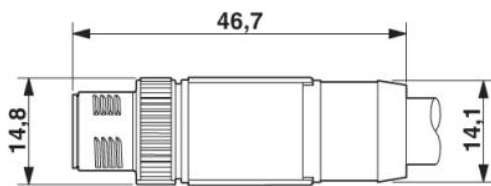
#### Conductor data

Cable type	PUR/PVC shielded, black
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
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	Braided shielding made of tin-plated copper wires
Optical shield covering	85 %
Outer sheath, material	PUR
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 <sup>2</sup>
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

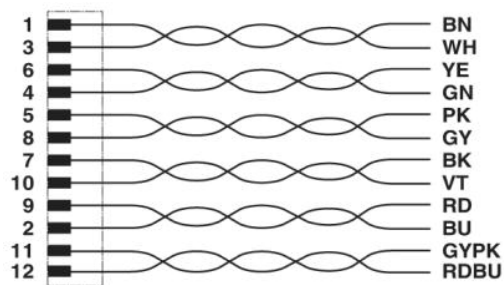
**Drawings**

Dimensioned drawing



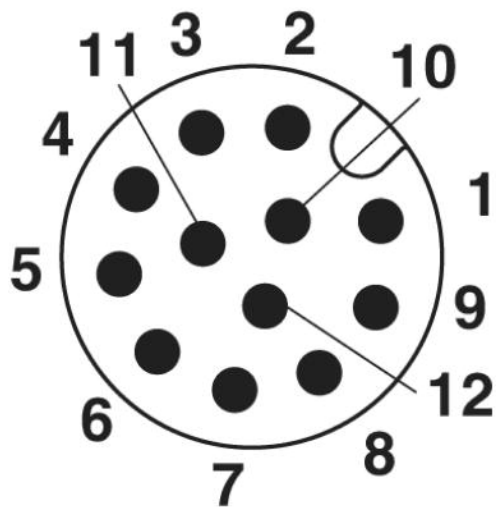
M12 SPEEDCON connector, straight, shielded

Circuit diagram



Contact assignment of the M12 plug

Schematic diagram



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

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