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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Sensor/Actuator cable - SAC-HZ-5P-MR/0,5-542/ FRSHSCOBK - 1409588

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Sensor/Actuator cable, 5-position, PVC, yellow, shielded, Plug angled M12 SPEEDCON, A-coded, on Socket angled M12 SPEEDCON, A-coded, Cable length: 0.5 m



### Key Commercial Data

Packing unit	1 STK
Minimum order quantity	10 STK
GTIN	 4 055626 018447
GTIN	4055626018447

### Technical data

#### Dimensions

Length of cable	0.5 m
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#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
Degree of protection	IP65
	IP67

#### General

Note	These cable assemblies are UL/cUL listed for use in Class I, Division 2 (CID2) hazardous locations.
Number of positions	5
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Protective circuit/component	Unwired
Overvoltage category	II
Degree of pollution	3

# Sensor/Actuator cable - SAC-HZ-5P-MR/0,5-542/ FRSHSCOBK - 1409588

## Technical data

### General

Torque	0.4 Nm (M12 connector)
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### Material

Flammability rating according to UL 94	HB
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

### Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	HB
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D

### Cable

Cable type	PVC yellow 105 °C
Cable type (abbreviation)	542
UL AWM style	2517 (105 °C / 300 V)
AWG signal line	22
Core diameter including insulation	1.27 mm ±0.03 mm
Wire colors	Brown, blue, black, white, gray
Overall twist	5 wires around filler to the core
Shielding	Tinned copper braided shield
Optical shield covering	85 %
External sheath, color	yellow
External cable diameter D	5.9 mm ±0.2 mm
Minimum bending radius, flexible installation	12 x D
Cable weight	57 kg/km
Outer sheath, material	PVC
Material, filler	PP
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ (550 M Ohms/m @ 500V)
Conductor resistance	max. 50.5 Ω/km (20° C)
Nominal voltage, cable	300 V
Special properties	UL standards PLTC and ITC
Flame resistance	FT4
Other resistance	UV resistant

# Sensor/Actuator cable - SAC-HZ-5P-MR/0,5-542/ FRSHSCOBK - 1409588

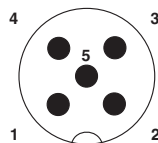
## Technical data

### Cable

Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)
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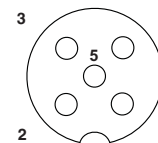
## Drawings

Schematic diagram



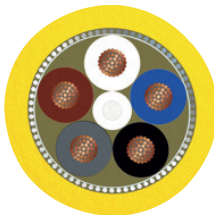
Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



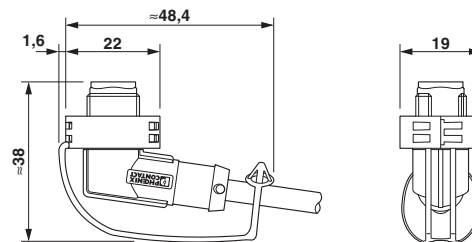
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Cable cross section



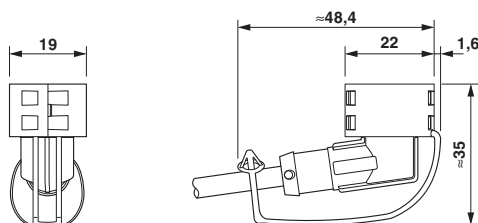
PVC yellow 105 °C [542]

Dimensional drawing



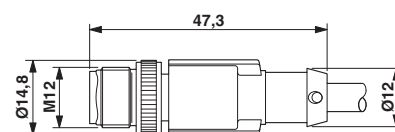
EXCLIP mounted plug

Dimensional drawing



EXCLIP mounted plug

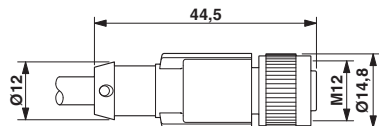
Dimensional drawing



Plug, M12 x 1, straight, shielded

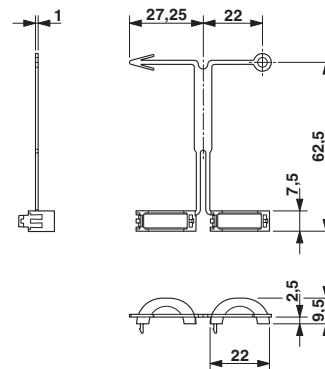
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Dimensional drawing



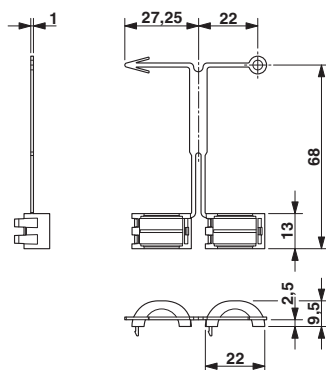
M12 x 1 socket, straight, shielded

Dimensional drawing



EXCLIP plug

Dimensional drawing



EXCLIP socket

Circuit diagram



Contact assignment of the M12 plug and the M12 socket