

# Sensor/Actuator cable - SAC-5P-M12MS/ 0,6-PUR/M12FS VW - 1693911

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Sensor/Actuator cable, 5-position, PUR halogen-free, Irradiated, orange RAL 2003, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 0.6 m, Customer version

## Key commercial data

package_quantity	1
GTIN	4017918481766

## Technical data

### Dimensions

Length of cable	0.6 m
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### Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
Degree of protection	IP65
Degree of protection	IP67
Degree of protection	IP68

### General

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	5
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Status display	No
Surge voltage category	II
Pollution degree	3
Insertion/withdrawal cycles	≥ 100

### Material

Inflammability class according to UL 94	HB
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF

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## Technical data

### Material

<b>Material of grip body</b>	TPU, hardly inflammable, self-extinguishing
<b>Material, knurls</b>	Zinc die-cast, nickel-plated
<b>Sealing material</b>	NBR

### Cable

<b>Cable type</b>	PUR irradiated halogen-free orange
<b>Cable type (abbreviation)</b>	150
<b>Cable abbreviation</b>	D12YSL11X-JB
<b>Conductor cross section</b>	4x 0.34 mm <sup>2</sup> (signal line)
<b>Conductor cross section</b>	1x 0.5 mm <sup>2</sup> (PE connection)
<b>AWG signal line</b>	22
<b>AWG power supply</b>	20
<b>Conductor structure signal line</b>	42x 0.10 mm
<b>Conductor structure, voltage supply</b>	24x 0.15 mm
<b>Wire colors</b>	Brown, blue, black, white, green/yellow
<b>Overall twist</b>	5 cores, twisted
<b>External sheath, color</b>	orange RAL 2003
<b>External cable diameter D</b>	5.2 mm ± 0.2 mm
<b>Smallest bending radius, fixed installation</b>	min. 20 mm
<b>Smallest bending radius, movable installation</b>	min. 30 mm
<b>Number of bending cycles</b>	5000000
<b>Bending radius</b>	52 mm
<b>Traversing path</b>	10 m
<b>Traversing rate</b>	3 m/s
<b>Outer sheath, material</b>	PUR
<b>Material conductor insulation</b>	PE
<b>Conductor material</b>	Bare Cu litz wires
<b>Conductor resistance</b>	≤ 57.5 Ω/km (with 0.34 mm <sup>2</sup> conductor cross section)
<b>Conductor resistance</b>	≤ 39 Ω/km (with 0.5 mm <sup>2</sup> conductor cross section)
<b>Nominal voltage, cable</b>	250 V (AC)
<b>Test voltage, cable</b>	2000 V (50 Hz, 5 minutes)
<b>Special properties</b>	Silicone-free
<b>Flame resistance</b>	DIN VDE 0472 part 804, test type B
<b>Halogen-free</b>	The cable is halogen-free
<b>Other resistance</b>	hydrolysis and microbe resistant
<b>Other resistance</b>	UV resistant
<b>Other resistance</b>	Resistant to welding splashes
<b>Ambient temperature (operation)</b>	-50 °C ... 105 °C (cable, fixed installation)
<b>Ambient temperature (operation)</b>	-40 °C ... 105 °C (cable, flexible installation)

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## classifications

### 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
eCl@ss 7.0	27061801
eCl@ss 8.0	27061801

### ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855


### UNSPSC


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

## approvals

UL Listed / cUL Listed / cULus Listed /

### Approval details

<b>UL Listed</b> 	
Nominal voltage UN	125 V
Nominal current IN	4 A
mm <sup>2</sup> /AWG/kcmil	

<b>cUL Listed</b> 	
Nominal voltage UN	125 V
Nominal current IN	4 A

# Sensor/Actuator cable - SAC-5P-M12MS/ 0,6-PUR/M12FS VW - 1693911

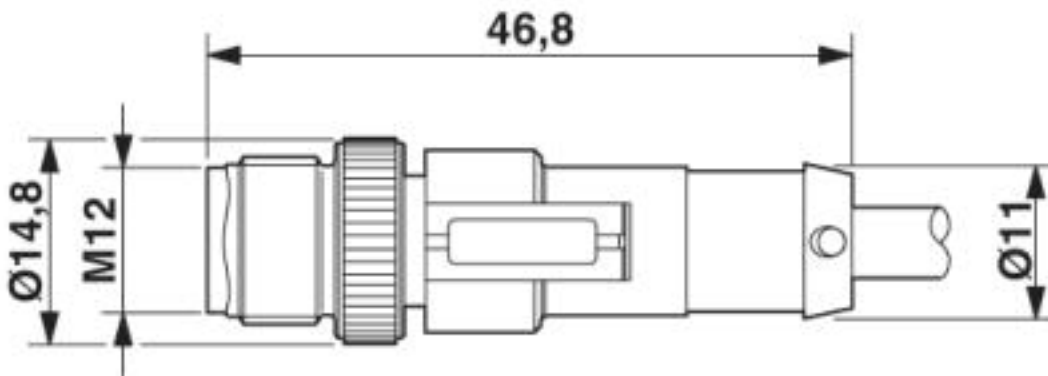
## approvals

mm <sup>2</sup> /AWG/kcmil	
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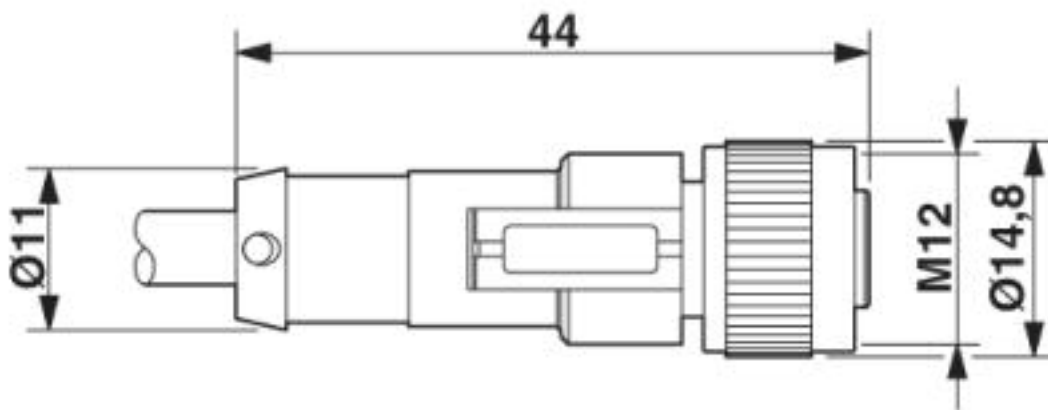
## Drawings

Dimensioned drawing



M12 x 1 plug, straight

Dimensioned drawing



M12 x 1 socket, straight

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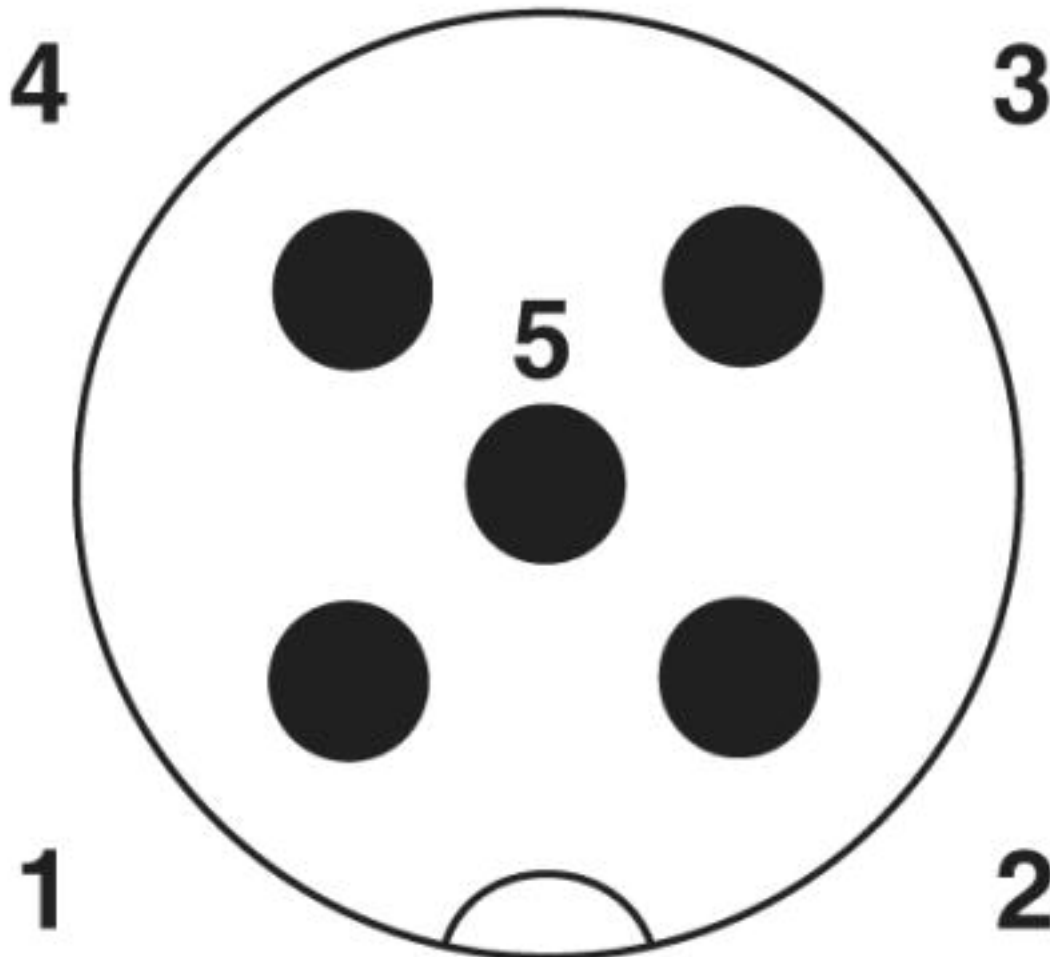
Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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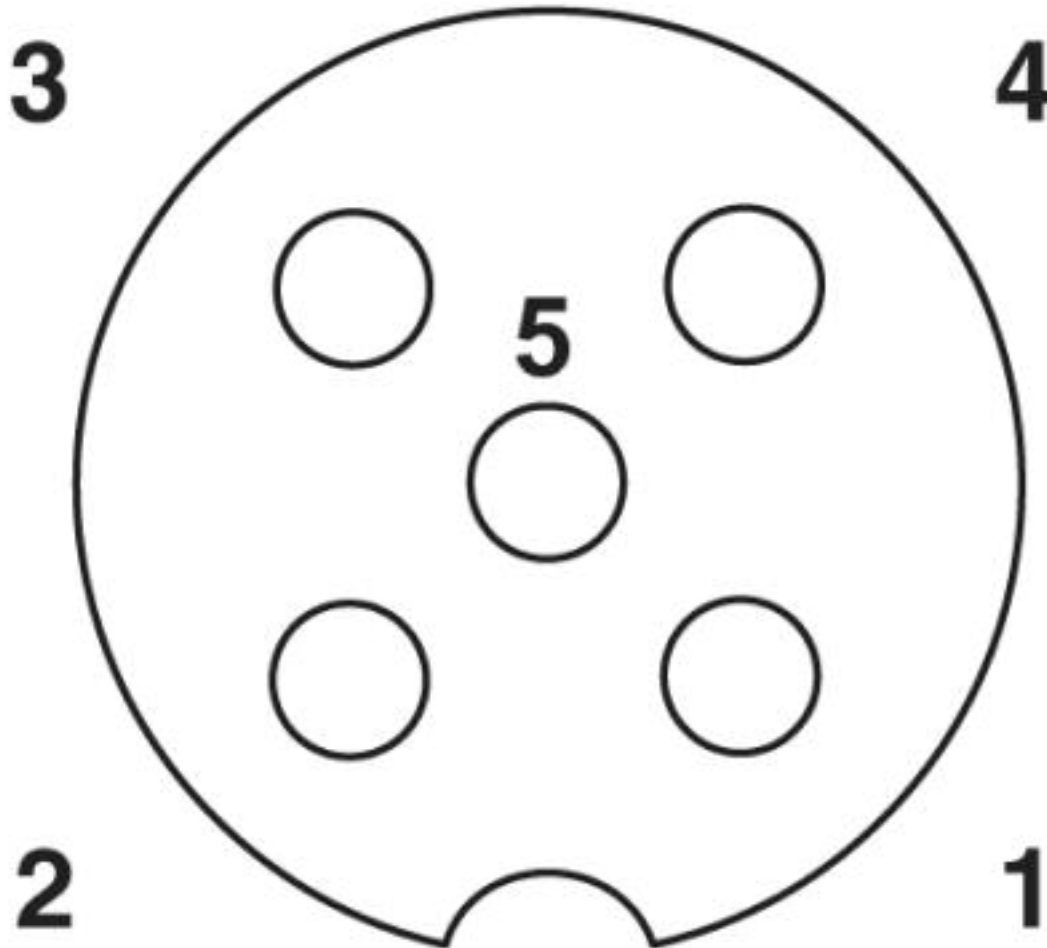
Schematic diagram



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

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Schematic diagram



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

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Cable cross section



PUR irradiated halogen-free orange [150]

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