

# Sensor/Actuator cable - SAC-4P-M12MS/ 2,0-150/ M12FS - 1546644

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Sensor/Actuator cable, 4-position, PUR, orange RAL 2003, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 2 m

As shown in the illustration but with an orange conductor

## Key commercial data

package_quantity	1
GTIN	4046356128797

## Technical data

### Dimensions

Length of cable	2 m
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### Ambient conditions

Degree of protection	IP65
Degree of protection	IP67
Degree of protection	IP68

### General

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	4
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 abbreviation</b>	D12YSL11X-OB
<b>Conductor cross section</b>	0.34 mm <sup>2</sup>
<b>AWG signal line</b>	22
<b>Conductor structure signal line</b>	19x 0.15 mm
<b>Wire colors</b>	brown, white, blue, black
<b>Overall twist</b>	4 wires, twisted
<b>Length of twist, overall twist</b>	27 mm
<b>External sheath, color</b>	orange RAL 2003
<b>External cable diameter</b>	5.20 mm
<b>Smallest bending radius, fixed installation</b>	min. 15 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>	max. 57 Ω/km
<b>Nominal voltage, cable</b>	320 V
<b>Test voltage, cable</b>	2500 V

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27060306
<b>eCl@ss 4.1</b>	27060306
<b>eCl@ss 5.0</b>	27061801
<b>eCl@ss 5.1</b>	27061801
<b>eCl@ss 6.0</b>	27061801
<b>eCl@ss 7.0</b>	27061801
<b>eCl@ss 8.0</b>	27061801

### ETIM

<b>ETIM 3.0</b>	EC001855
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## classifications

### ETIM

<b>ETIM 4.0</b>	EC001855
<b>ETIM 5.0</b>	EC001855

### UNSPSC

<b>UNSPSC 6.01</b>	31251501
<b>UNSPSC 7.0901</b>	31251501
<b>UNSPSC 11</b>	31251501
<b>UNSPSC 12.01</b>	31251501
<b>UNSPSC 13.2</b>	31251501

## approvals

UL Listed / cUL Listed / cULus Listed /

### Approval details

<b>UL Listed</b>	
Nominal voltage UN	300 V
Nominal current IN	4 A
mm <sup>2</sup> /AWG/kcmil	

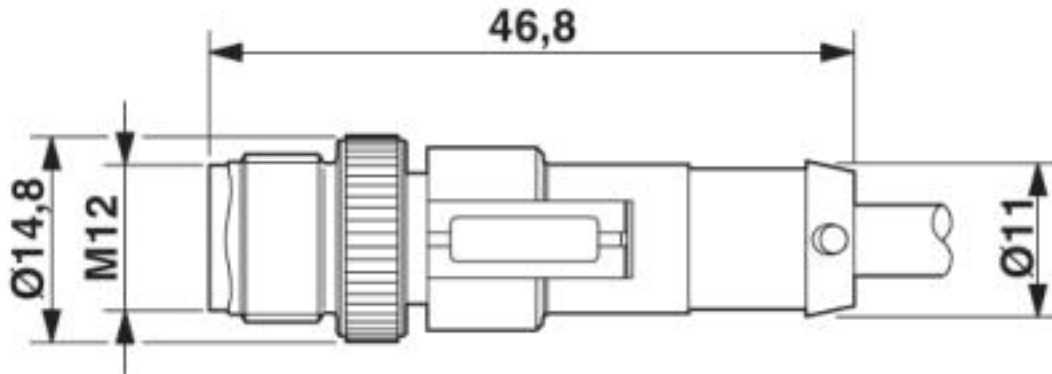
<b>cUL Listed</b>	
Nominal voltage UN	300 V
Nominal current IN	4 A
mm <sup>2</sup> /AWG/kcmil	

<b>cULus Listed</b>	
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## Drawings

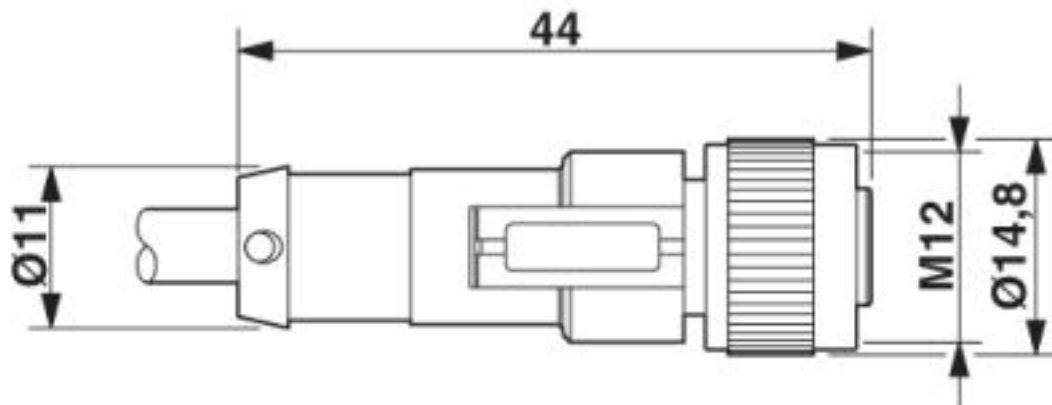
# Sensor/Actuator cable - SAC-4P-M12MS/ 2,0-150/ M12FS - 1546644

Dimensioned drawing



M12 x 1 plug, straight

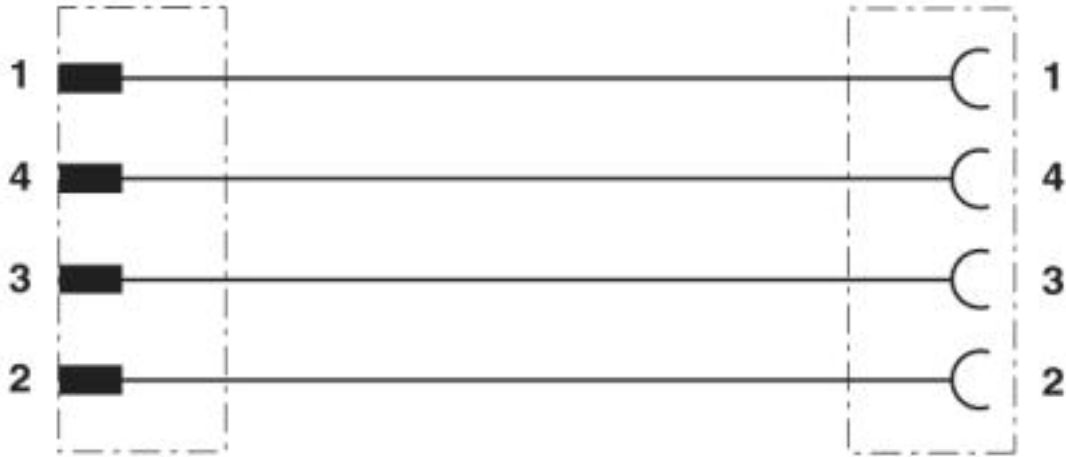
Dimensioned drawing



M12 x 1 socket, straight

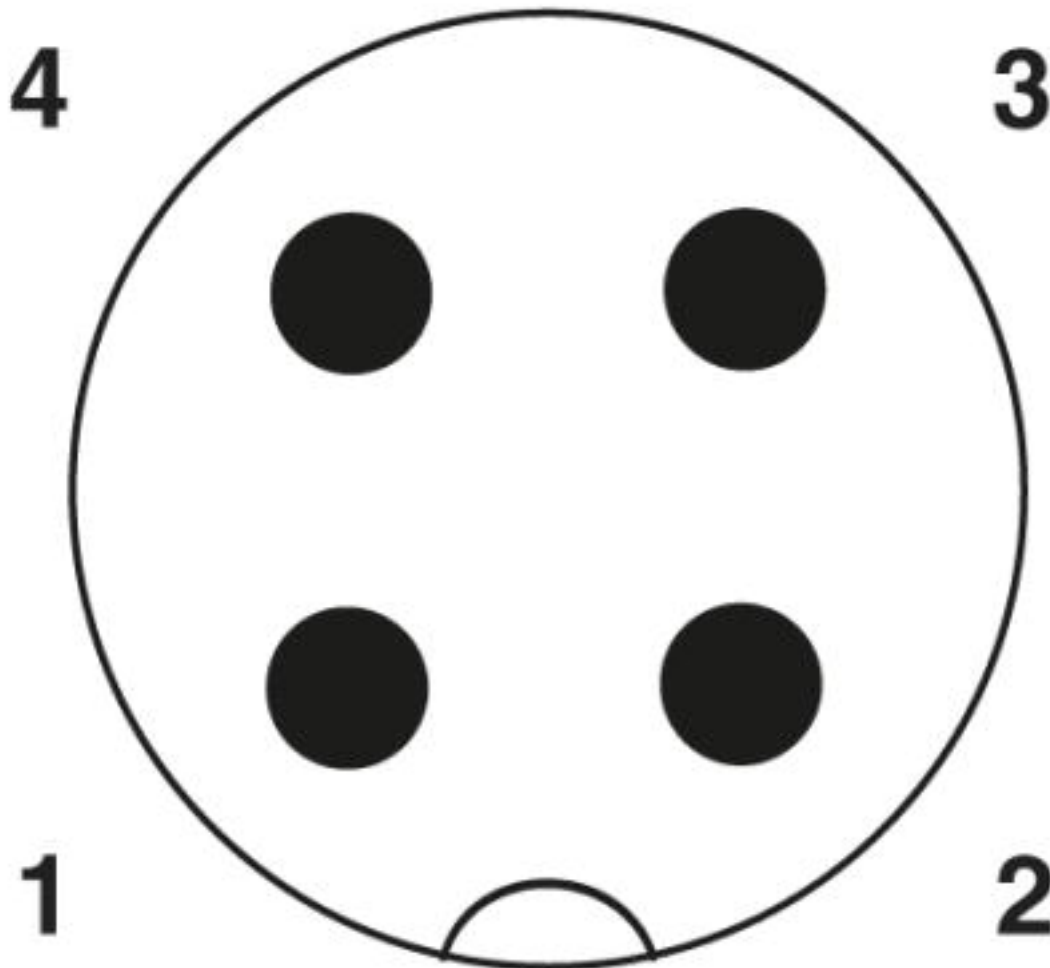
# Sensor/Actuator cable - SAC-4P-M12MS/ 2,0-150/ M12FS - 1546644

Circuit diagram



# Sensor/Actuator cable - SAC-4P-M12MS/ 2,0-150/ M12FS - 1546644

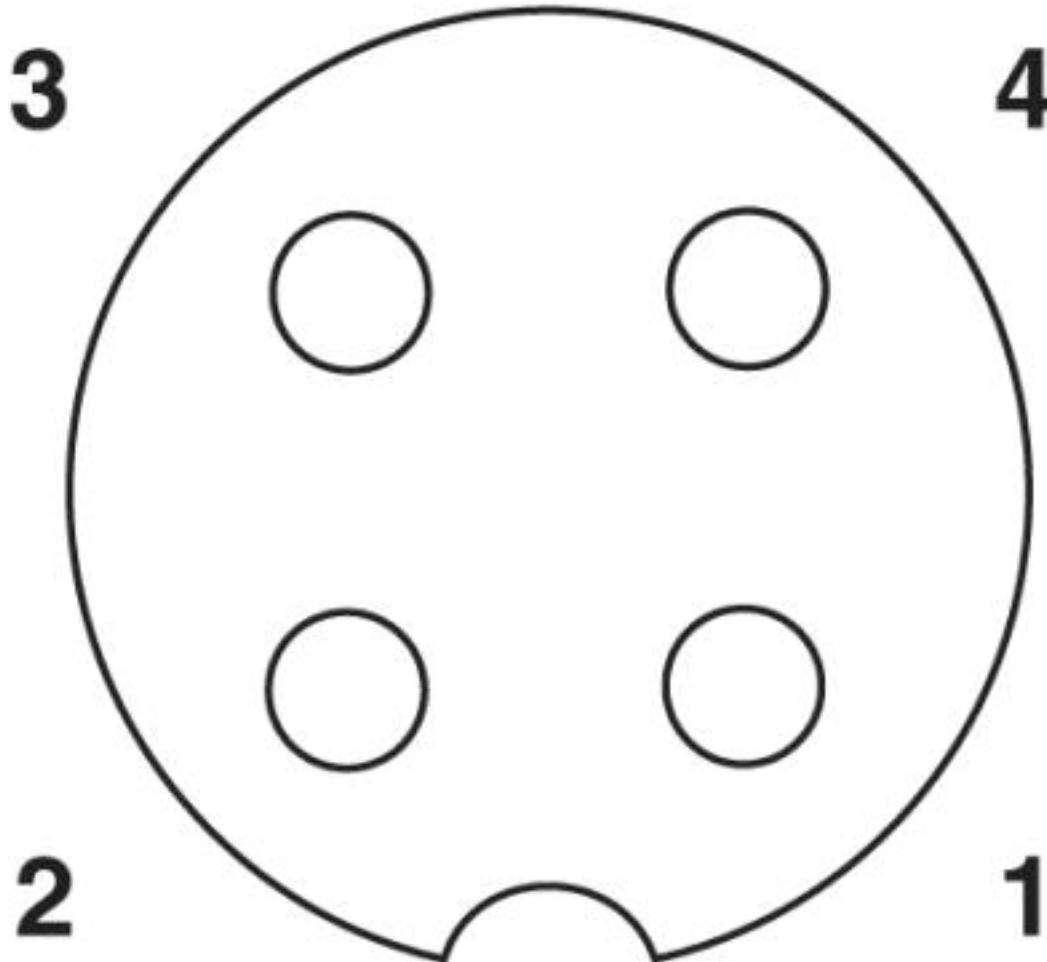
Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

# Sensor/Actuator cable - SAC-4P-M12MS/ 2,0-150/ M12FS - 1546644

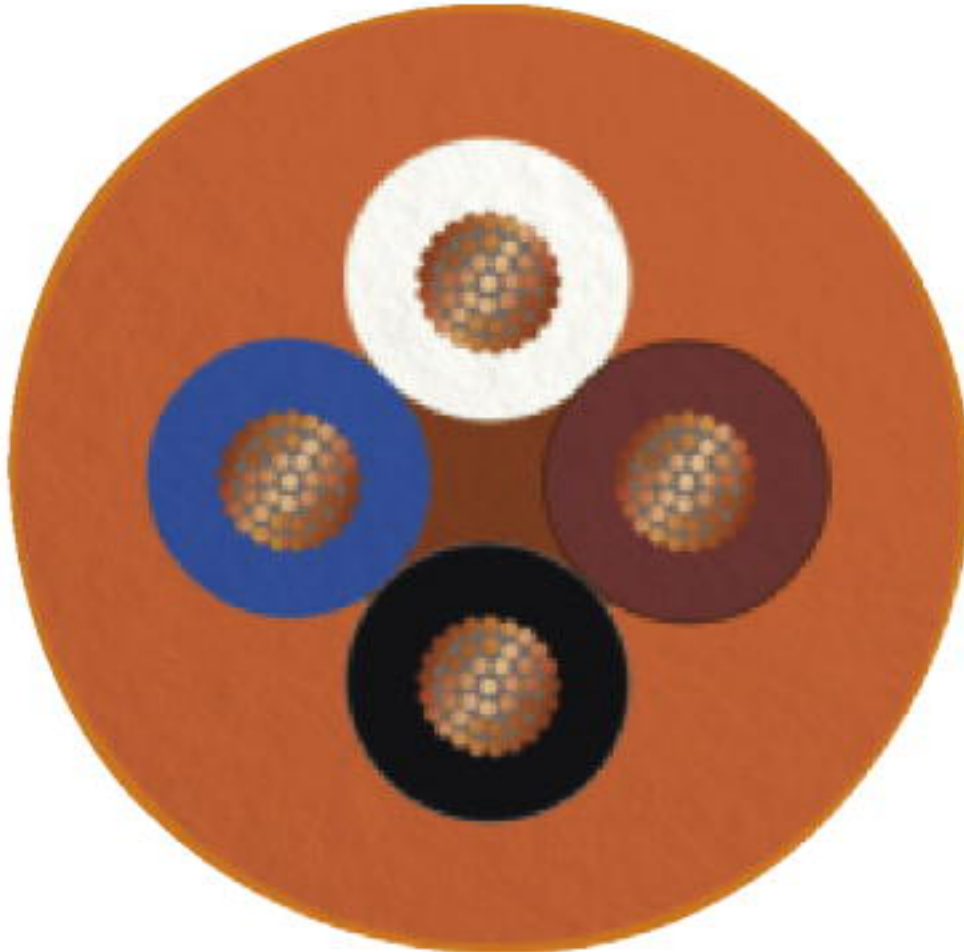
Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

## Sensor/Actuator cable - SAC-4P-M12MS/ 2,0-150/ M12FS - 1546644

Cable cross section



PUR irradiated halogen-free orange [150]

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