

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Phoenix Contact](#)  
[1403949](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

<https://www.phoenixcontact.com/us/produkte/1403949>



## Sensor/Actuator cable - SAC-4P-M12MS/5,0-600 HD - 1403949

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Sensor/Actuator cable, 4-position, PP-EPDM halogen-free, Gray RAL 7035, Plug straight M12, A-coded, on Free cable end, Cable length: 5 m, Hygienic design, With high-grade steel knurl



### Key commercial data

Packing unit	0
Minimum order quantity	1
GTIN	 4 046356 676960
Custom tariff number	85444290
Country of origin	POLAND

### Technical data

#### General data

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	4
Volume resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Length of cable	5 m
Ambient temperature (operation)	-40 °C ... 105 °C (Male connector / female connector)

#### General characteristics

Standards/regulations	M12 plug-in connector IEC 61076-2-101
Coding	A - standard
Surge voltage category	II
Pollution degree	3
Degree of protection	IP65/IP68/IP69K
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PP

<https://www.phoenixcontact.com/us/produkte/1403949>


## Sensor/Actuator cable - SAC-4P-M12MS/5,0-600 HD - 1403949

### Technical data

#### General characteristics

Material of grip body	PP
Material, knurls	High-grade steel
Status display	No

#### Conductor data

Cable type	Halogen-free PP gray
Cable type (abbreviation)	600
Cable abbreviation	Li9Y9Y
Conductor cross section	4x 0.34 mm <sup>2</sup> (signal line)
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.27 mm ±0.02 mm (signal line)
Thickness, insulation	≥ 0.21 mm (Core insulation)
Wire colors	brown, white, blue, black
Overall twist	4 wires, twisted
Length of twist, overall twist	48 mm
External sheath, color	Gray RAL 7035
Outer sheath thickness	Approx. 0.8 mm
External cable diameter D	4.7 mm ±0.15 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Cable weight	30 kg/km
Outer sheath, material	PP-EPDM
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Conductor resistance	58 Ω/km (At an ambient temperature of 20°C)
Nominal voltage, conductor	≤ 300 V AC
Test voltage, conductor	≥ 3000 V AC (Spark test)
Special properties	FDA compliant
Halogen-free	in accordance with DIN VDE 0472 part 815
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)

### Classifications

#### ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

#### UNSPSC

UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

<https://www.phoenixcontact.com/us/produkte/1403949>



## Sensor/Actuator cable - SAC-4P-M12MS/5,0-600 HD - 1403949

### Classifications

#### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501

#### 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

### Accessories

#### Accessories

#### Tools

Cable-cutting tool - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

<https://www.phoenixcontact.com/us/produkte/1403949>



## Sensor/Actuator cable - SAC-4P-M12MS/5,0-600 HD - 1403949

### Accessories

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

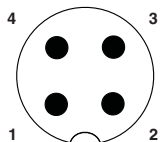
Adapter - SAC BIT M12-W14 - 1212513



SAC nut, for assembling M12 connectors with hexagonal high-grade steel knurl, with 4 mm hexagonal drive

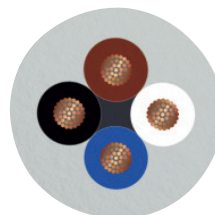
### Drawings

Schematic diagram



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

Cable cross section



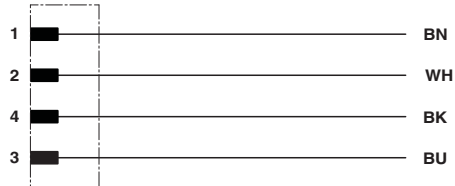
Halogen-free PP gray [600]

<https://www.phoenixcontact.com/us/produkte/1403949>



## Sensor/Actuator cable - SAC-4P-M12MS/5,0-600 HD - 1403949

Circuit diagram



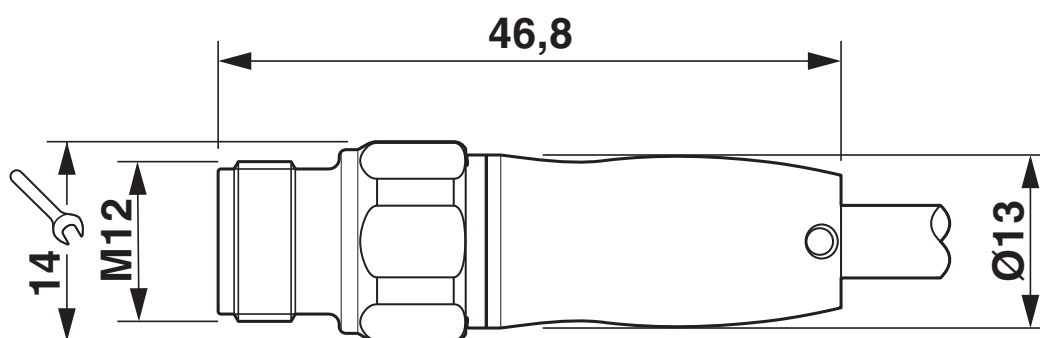
Contact assignment of the M12 plug and the M12 socket

<https://www.phoenixcontact.com/us/produkte/1403949>



## Sensor/Actuator cable - SAC-4P-M12MS/5,0-600 HD - 1403949

Dimensioned drawing



<https://www.phoenixcontact.com/us/produkte/1403949>



---

© Phoenix Contact 2012 - all rights reserved  
<http://www.phoenixcontact.com>