

## Sensor/Actuator cable - SAC-4P- 2,0-542/M8 FR BK - 1406243

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Sensor/Actuator cable, 4-position, PVC, yellow RAL 1021, free cable end, on Socket angled M8, Cable length: 2 m



### Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	60.0 g
Custom tariff number	85444290
Country of origin	United States

### Technical data

#### Dimensions

Length of cable	2 m
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#### Ambient conditions

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

#### General

Rated current at 40°C	4 A
Rated voltage	30 V
Number of positions	4
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M8 connector IEC 61076-2-104

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### Technical data

#### General

Status display	No
Protective circuit/component	Unwired
Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100
Torque	0.2 Nm (M8 connectors)

#### 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	M8 connector
Standards/regulations	IEC 61076-2-104
Flammability rating according to UL 94	HB

#### Cable

Cable type	PVC yellow 105 °C
Cable type (abbreviation)	542
UL AWM style	2517 (105°C/300 V)
AWG signal line	24
Core diameter including insulation	1.12 mm ±0.03 mm
Wire colors	brown, blue, black, white
Overall twist	4 wires, twisted
External sheath, color	yellow
External cable diameter D	4.4 mm ±0.2 mm
Minimum bending radius, flexible installation	8 x D
Cable weight	25 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ (550 M Ohms/m @ 500V)
Conductor resistance	max. 79.7 Ω/km (20° C)
Nominal voltage, cable	300 V

# Sensor/Actuator cable - SAC-4P- 2,0-542/M8 FR BK - 1406243

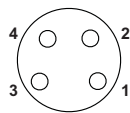
## Technical data

### Cable

Other resistance	UV resistant
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)

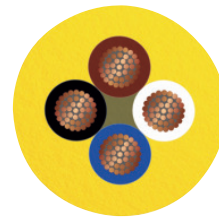
## Drawings

Schematic diagram



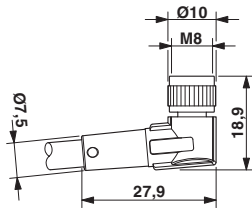
Pin assignment M8 socket, 4-pos., view female side

Cable cross section



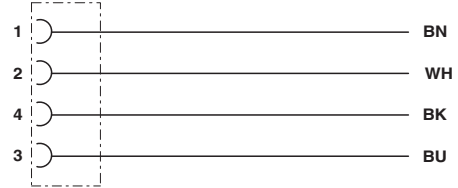
PVC yellow 105 °C [542]

Dimensional drawing



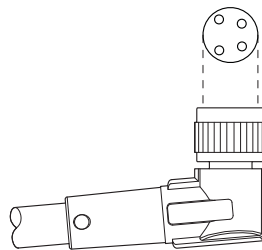
Socket M8 x 1, angled

Circuit diagram



Contact assignment of M8 socket

Schematic diagram



Layout of connector pin assignments

## Sensor/Actuator cable - SAC-4P- 2,0-542/M8 FR BK - 1406243

### 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	27279218
eCl@ss 9.0	27060311

#### ETIM

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

#### Approvals

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Approvals

UL Listed / cUL Listed / cULus Listed

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Ex Approvals

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Approvals submitted

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Approval details

## Sensor/Actuator cable - SAC-4P- 2,0-542/M8 FR BK - 1406243

### Approvals

UL Listed	
Nominal current IN	4 A
Nominal voltage UN	125 V

cUL Listed	
Nominal current IN	4 A
Nominal voltage UN	125 V

cULus Listed	
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### Accessories

#### Accessories

##### Protective cap

Screw plug - PROT-M 8 MS-PA-CHAIN - 1430860

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 sockets



#### Screwdriver tools

Tool - SAC BIT M8-D10 - 1208461



Nut for assembling sensor/actuator cables with M8 connector and M8 connectors for assembly, with a knurl diameter of 10 mm, for 4 mm hexagonal drive

<https://www.phoenixcontact.com/us/products/1406243>



## Sensor/Actuator cable - SAC-4P- 2,0-542/M8 FR BK - 1406243

### Accessories

#### Torque tool

Torque screwdriver - TSD 02 SAC - 1208487



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

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