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# Sensor/Actuator cable - SAC-4P-M12MR/0,6-PVC/M 8FR - 1415668

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Sensor/Actuator cable, 4-position, PVC, black RAL 9005, Plug angled M12, A-coded, on Socket angled M8, Cable length: 0.6 m

## Why buy this product

- Easy and safe: 100% electrically tested plug-in components

## Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 050195

## 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
	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	M12 connector IEC 61076-2-101
	M8 connector IEC 61076-2-104
Status display	No
Protective circuit/component	Unwired
Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100

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## Technical data

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

### Cable

Cable type	PVC black
Cable type (abbreviation)	PVC
Cable abbreviation	LiYY
UL AWM style	2464 / 1729 (80°C/300 V)
Conductor cross section	4x 0.34 mm <sup>2</sup> (Signal line)
AWG signal line	22
Conductor structure signal line	19x 0.15 mm
Core diameter including insulation	1.26 mm ±0.05 mm
Thickness, insulation	≥ 0.23 mm (Core insulation)
Wire colors	brown, white, blue, black
Overall twist	4 wires, twisted
External sheath, color	black RAL 9005
Outer sheath thickness	≥ 0.76 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	40 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 200 MΩ*km (at 20 °C)
Conductor resistance	max. 57 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)

# Sensor/Actuator cable - SAC-4P-M12MR/0,6-PVC/M 8FR - 1415668

## Technical data

### Cable

	-25 °C ... 80 °C (cable, flexible installation)
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## Classifications

### eCl@ss

eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 8.0	27279218

### ETIM

ETIM 5.0	EC001855
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## Approvals

### Approvals

### Approvals

UL Listed / cUL Listed / cULus Listed

### Ex Approvals

### Approvals submitted

## Approval details

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

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

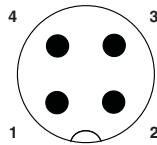
# Sensor/Actuator cable - SAC-4P-M12MR/0,6-PVC/M 8FR - 1415668

## Approvals



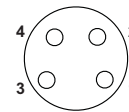
## Drawings

Schematic diagram



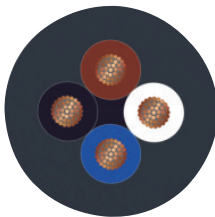
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Schematic diagram



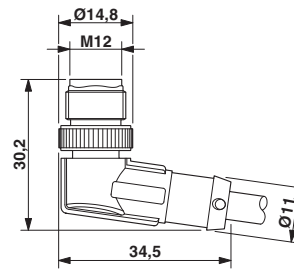
Pin assignment M8 socket, 4-pos., view female side

Cable cross section



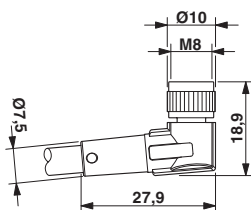
PVC black [PVC]

Dimensional drawing



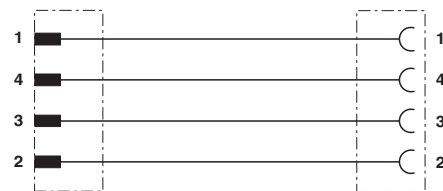
M12 x 1 male plug, angled

Dimensional drawing



Socket M8 x 1, angled

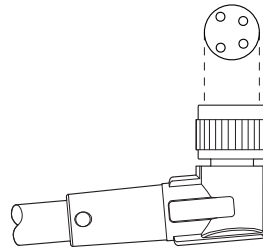
Circuit diagram



Contact assignment of M12 plugs / M8 sockets

## Sensor/Actuator cable - SAC-4P-M12MR/0,6-PVC/M 8FR - 1415668

Schematic diagram



Layout of connector pin assignments

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