

## Sensor/actuator cable - SAC-3P-M12MR/0,6-PUR/B-1L-S180 - 1514896

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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug angled M12, coding: A, on Valve connector B (10 mm), with 1 LED, connected with Z diode, cable length: 0.6 m

**RoHS**

### Key Commercial Data

Packing unit	1
GTIN	 4 017918 923341
GTIN	4017918923341
Custom tariff number	85444290

### Technical data

#### Dimensions

Length of cable	0.6 m
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#### Ambient conditions

Degree of protection	IP67
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#### General

Rated current at 40°C	4 A
Rated voltage	24 V
Number of positions	3
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Status display	1 LED
Protective circuit/component	Z diode
Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100

#### Material

Flammability rating according to UL 94	HB
Contact material	CuSn

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## Technical data

### Material

Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Valve plug contact material	CuSn
Valve plug contact surface material	Ag
Valve plug contact insert material	PBT
Material housing valve plug	PBT
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	TPU (Flat gasket valve plug)

### Cable

Cable type	PUR/PVC black
Cable abbreviation	LiYY11Y-JZ
Conductor cross section	0.75 mm <sup>2</sup>
AWG signal line	18
Conductor structure signal line	24x 0.20 mm
Core diameter including insulation	approx. 1.8 mm
Thickness, insulation	approx. 0.34 mm (Core insulation)
	approx. 0.35 mm (Outer cable sheath)
	approx. 0.3 mm (Inner sheath)
Wire colors	black 1, black 2, green/yellow
Overall twist	3 concentrically twisted wires
Length of twist, overall twist	83 mm
External sheath, color	black RAL 9005
External cable diameter	5.20 mm
Smallest bending radius, movable installation	62 mm
Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 1 MΩ*km
Nominal voltage, cable	240 V
Test voltage, cable	2000 V

### Standards and Regulations

Flammability rating according to UL 94	HB
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### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
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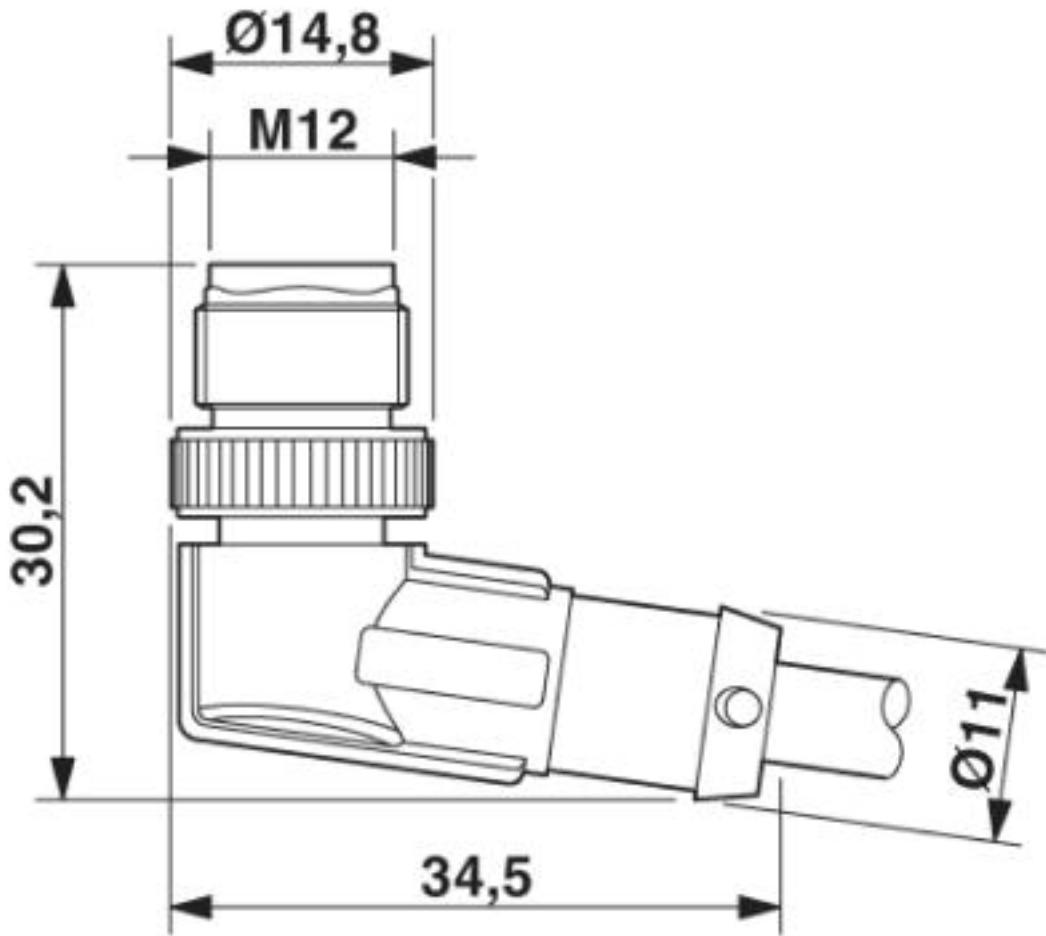
### Technical data

#### Environmental Product Compliance

For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

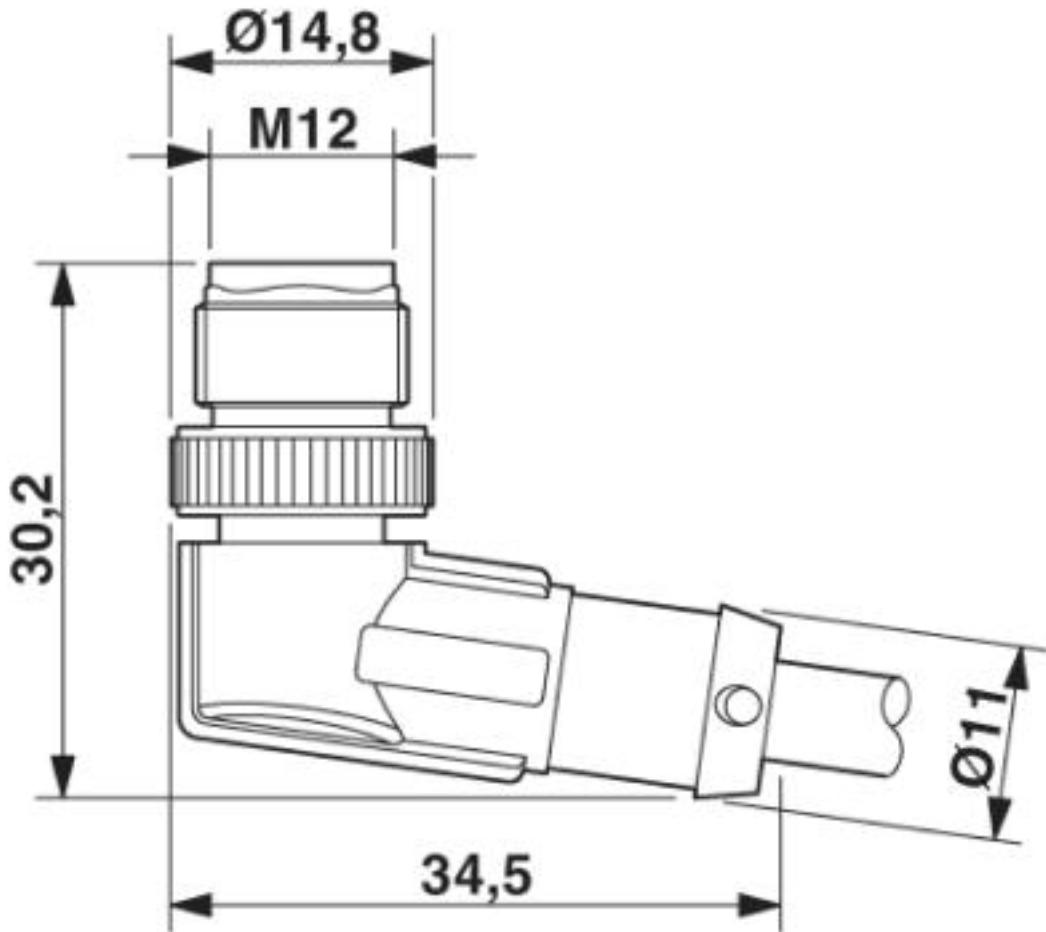
Dimensional drawing



M12 x 1 male plug, angled

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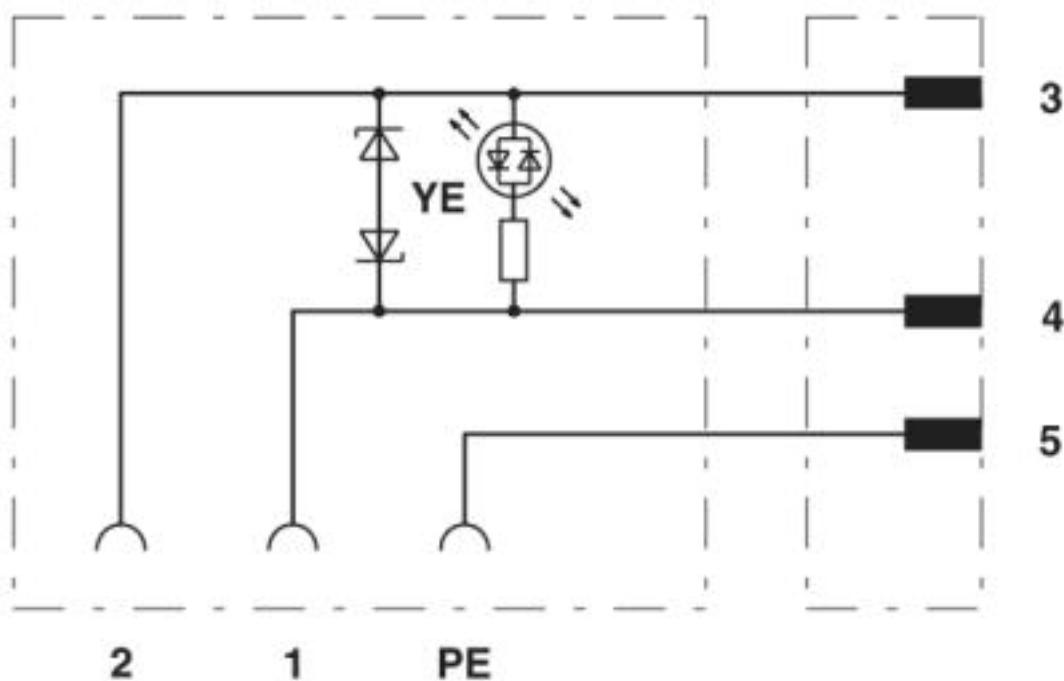
Dimensional drawing



M12 x 1 male plug, angled

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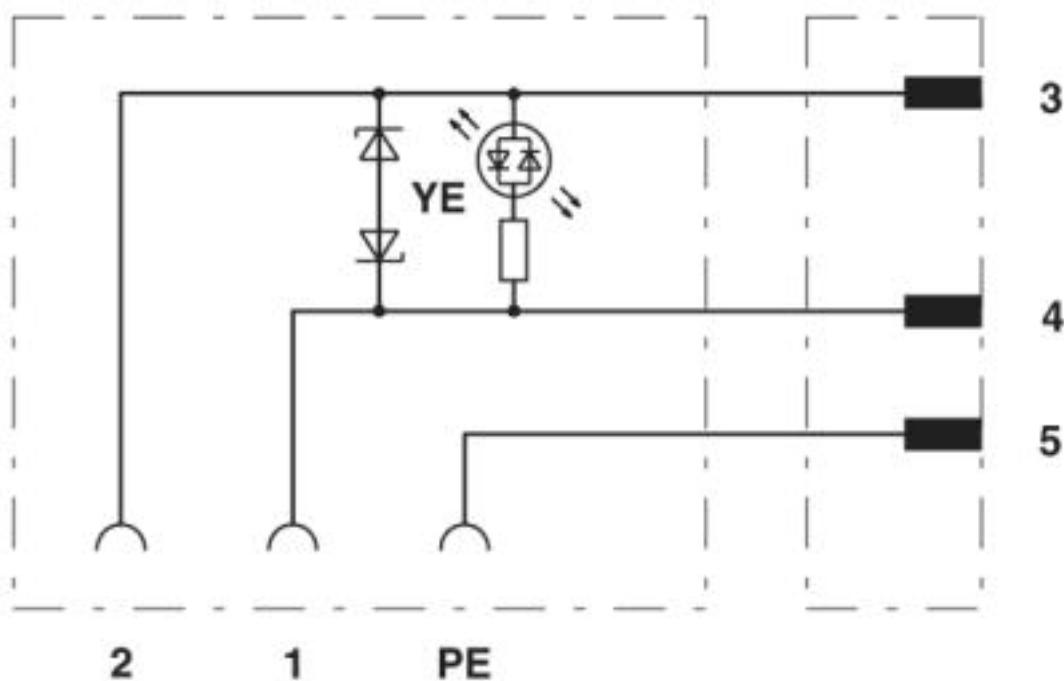
Circuit diagram



Contact assignment

## Sensor/actuator cable - SAC-3P-M12MR/0,6-PUR/B-1L-S180 - 1514896

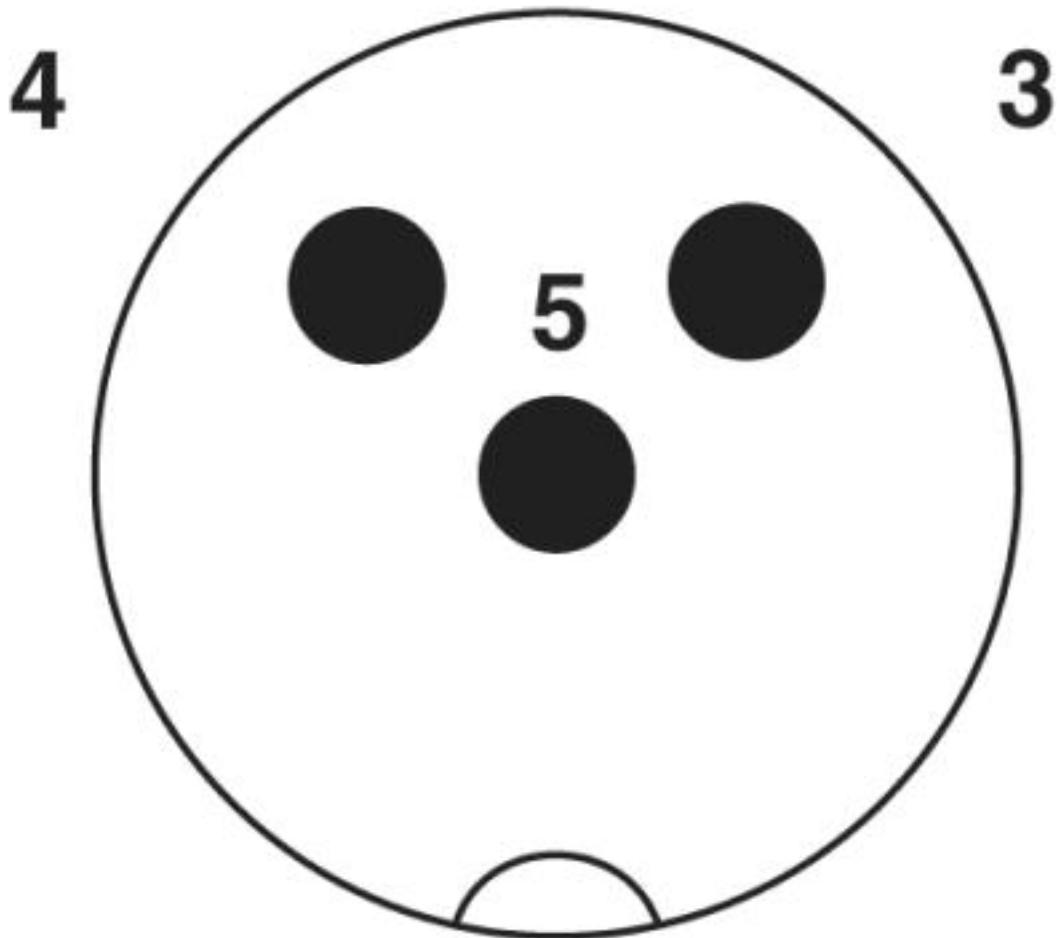
Circuit diagram



Contact assignment of M12 plug and valve connector

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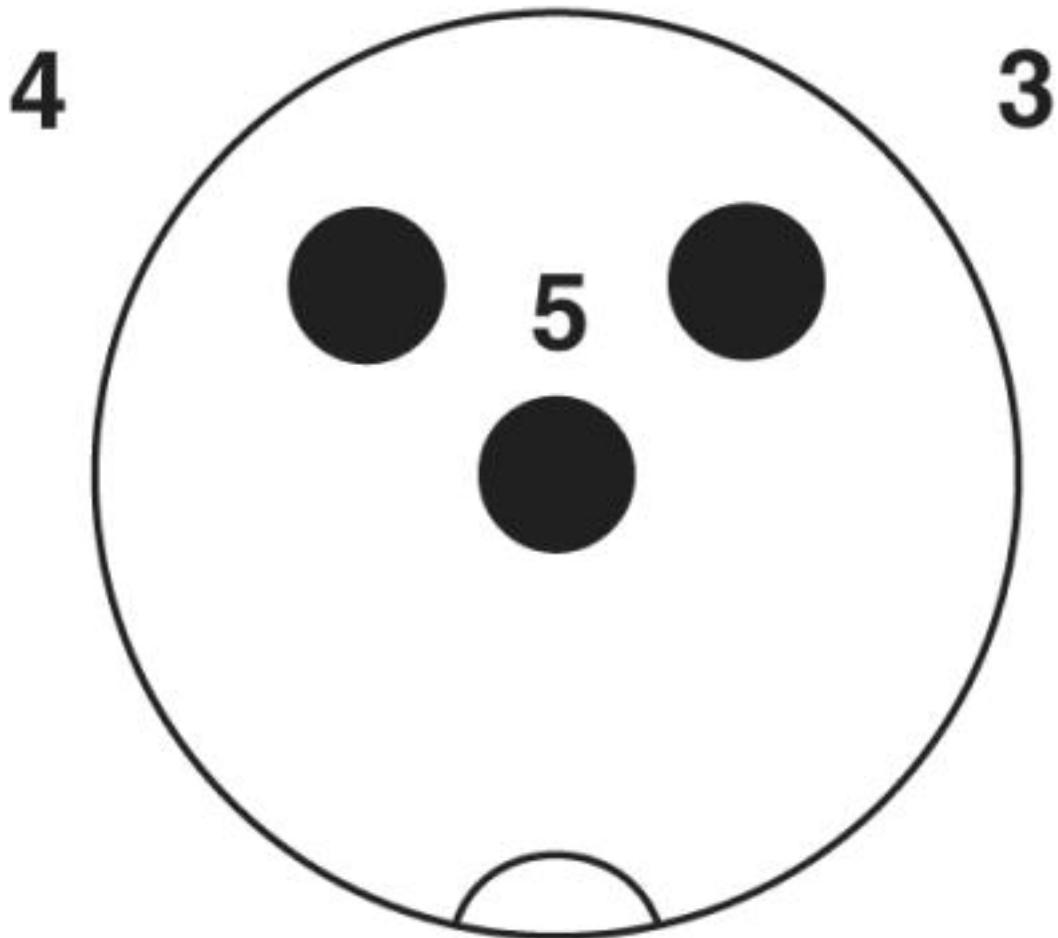
Schematic diagram



Pin assignment M12 plug, 3-pos., valve connector

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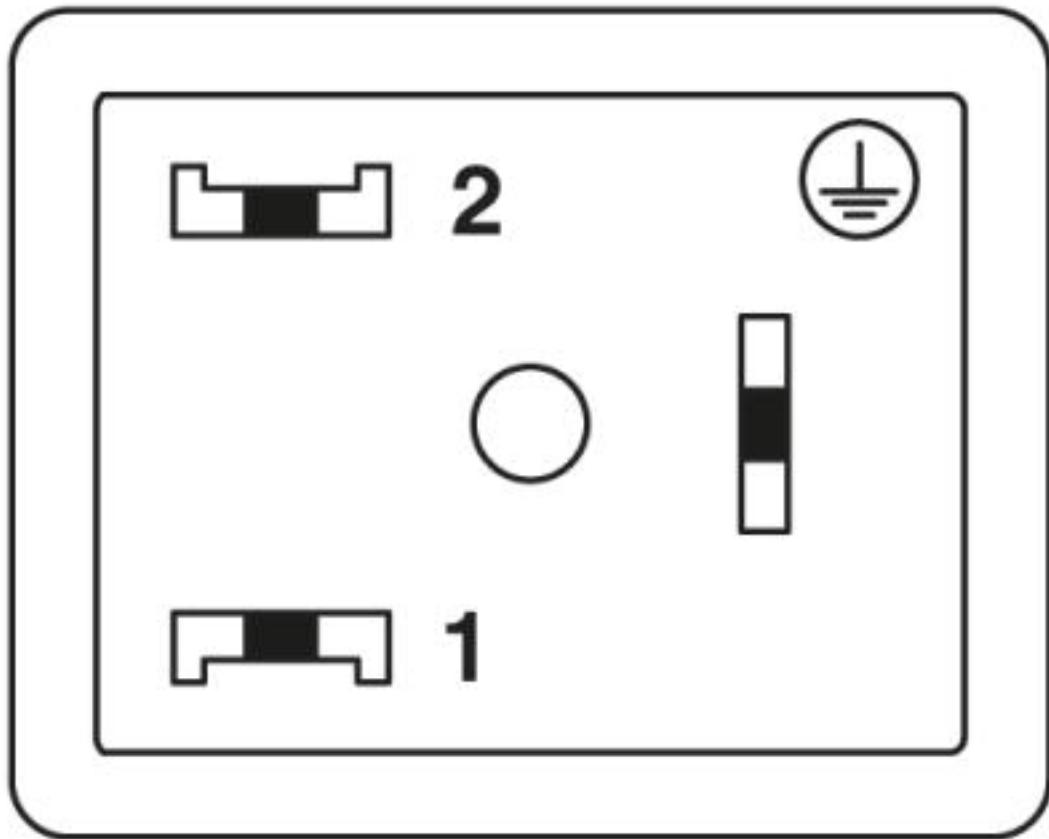
Schematic diagram



Pin assignment M12, 3-pos.

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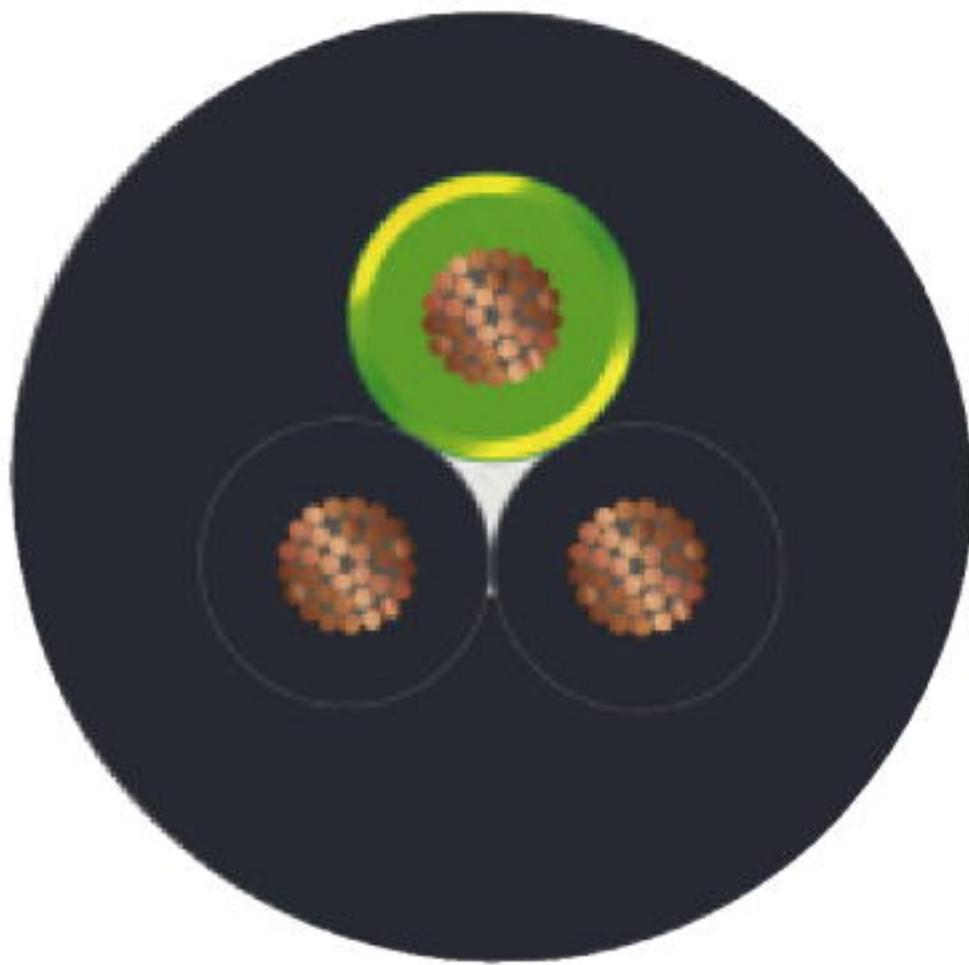
Schematic diagram



Valve connector pin assignment, type B

## Sensor/actuator cable - SAC-3P-M12MR/0,6-PUR/B-1L-S180 - 1514896

Cable cross section



PUR halogen-free black [PUR]

### 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

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### Classifications

#### eCl@ss

eCl@ss 9.0	27060312
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#### 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