

## Sensor/Actuator cable - SAC-12P- 3,0-PUR/FS SCO - 1430624

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://phoenixcontact.com/download>)




Sensor/Actuator cable, 12-position, PUR halogen-free, black RAL 9005, free cable end, on Socket straight M12 SPEEDCON, A-coded, Cable length: 3 m

### Why buy this product

- Easy and safe: 100% electrically tested plug-in components
- Save time, thanks to installation with SPEEDCON fast locking system
- Our standard: robust halogen-free PUR cable
- Save space – with high-pos. connectors



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 456678
Weight per Piece (excluding packing)	197.7 g
Custom tariff number	85444290
Country of origin	Germany
Product key	BF1CGA

### Technical data

#### Dimensions

Length of cable	3 m
Stripping length of the free conductor end	35 mm

#### Ambient conditions

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

#### General

Rated current at 40°C	1.5 A
-----------------------	-------

## Sensor/Actuator cable - SAC-12P- 3,0-PUR/FS SCO - 1430624

### Technical data

#### General

Rated voltage	30 V
Number of positions	12
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Protective circuit/component	Unwired
Overvoltage category	II
Pollution degree	3
Torque	0.4 Nm (M12 connector)

#### Material

Inflammability class according to UL 94	V0
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 66
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

#### Cable

Conductor cross section	12x 0.14 mm <sup>2</sup> (signal line)
AWG signal line	26
Conductor structure signal line	18x 0.10 mm
Core diameter including insulation	1 mm ±0.05 mm (signal line)
Wire colors	White, brown, green, yellow, gray, pink, blue, red, black, violet, gray/ pink, red/blue
Overall twist	12 wires twisted in layers
External sheath, color	black RAL 9005
External cable diameter D	7.2 mm
Number of bending cycles	4000000
Bending radius	54 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s <sup>2</sup>
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Tin-plated Cu litz wires
Conductor resistance	142 Ω/km
Special properties	Low adhesion surface
Resistance to oil	DIN VDE 0472 Part 803, test type B

# Sensor/Actuator cable - SAC-12P- 3,0-PUR/FS SCO - 1430624

## Technical data

### Cable

Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (cable, flexible installation)

## 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

### ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

### UNSPSC

UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	31251501
UNSPSC 13.2	26121616

## Approvals

### Approvals

---

Approvals

EAC

---

Ex Approvals

---

Approvals submitted

---

### Approval details

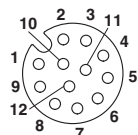
# Sensor/Actuator cable - SAC-12P- 3,0-PUR/FS SCO - 1430624

## Approvals

EAC

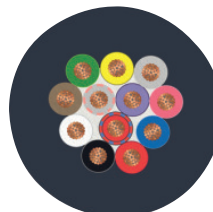
## Drawings

Schematic diagram



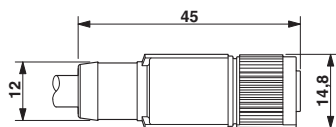
Pin assignment M12, 12-pos., female side view

Cable cross section



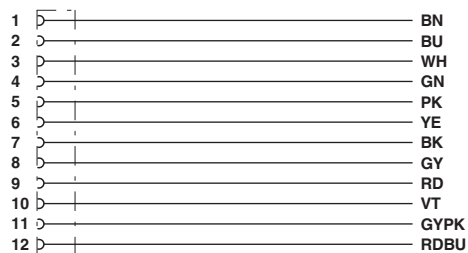
PUR halogen-free black [PUR]

Dimensional drawing



Socket M12-SPEEDCON, straight, shielded

Circuit diagram



Contact assignment of the M12 socket