

## Sensor/Actuator cable - SAC-4P-M12MR/0,6-PUR/M12FS D - 1696109

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, 4-position, PUR/PVC, Yellow RAL 1021, Plug angled M12, A-coded, on Socket straight M12, A-coded, Cable length: 0.6 m, DESINA

### Product Features

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Convenient: simplified planning with connecting cables according to DESINA standard



### Key commercial data

Packing unit	1 pc
Minimum order quantity	5 pc
Weight per Piece (excluding packing)	41.6 GRM
Custom tariff number	85444290
Country of origin	Germany

### Technical data

#### Dimensions

Length of cable	0.6 m
-----------------	-------

#### 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
-----------------------	-----

# Sensor/Actuator cable - SAC-4P-M12MR/0,6-PUR/M12FS D - 1696109

## Technical data

### General

Rated voltage	250 V
Number of positions	4
Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Coding	A - standard
Status display	No
Protective circuit/component	Unwired
Surge voltage category	II
Pollution degree	3
Insertion/withdrawal cycles	$\geq 100$

### Material

Inflammability class 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

### Cable

Cable type	PUR/PVC yellow
Cable type (abbreviation)	140
Cable abbreviation	LiYY-11Y
UL AWM style	20549
Conductor cross section	$0.34 \text{ mm}^2$
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	$1.5 \text{ mm} \pm 0.05 \text{ mm}$
Thickness, insulation	approx. 0.3 mm (Core insulation)
	$\geq 0.38 \text{ mm}$ (Outer cable sheath)
	approx. 0.35 mm (Inner sheath)
Wire colors	brown, white, blue, black
Overall twist	4 wires, twisted
External sheath, color	Yellow RAL 1021
External cable diameter D	$5.2 \text{ mm} \pm 0.2 \text{ mm}$
Smallest bending radius, fixed installation	52 mm
Smallest bending radius, movable installation	52 mm

# Sensor/Actuator cable - SAC-4P-M12MR/0,6-PUR/M12FS D - 1696109

## Technical data

### Cable

Number of bending cycles	2000000
Bending radius	52 mm
Traversing path	5 m
Traversing rate	3 m/s
Cable weight	39 kg/km
Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	$\geq 1 \text{ G}\Omega\cdot\text{km}$ (at 20 °C)
Conductor resistance	max. 58 $\Omega/\text{km}$ (at 20 °C)
Nominal voltage, cable	$\leq 300 \text{ V}$
Test voltage, cable	$\geq 3000 \text{ V}$
Flame resistance	in accordance with DIN UL-Style 20549
Ambient temperature (operation)	-25 °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	27061801

### 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

## Sensor/Actuator cable - SAC-4P-M12MR/0,6-PUR/M12FS D - 1696109

### Classifications

#### UNSPSC

UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

### Approvals

#### Approvals


#### Approvals


UL Listed / GOST / cUL Listed / cULus Listed


#### Ex Approvals

#### Approvals submitted

### Approval details

UL Listed 	
Nominal current I <sub>N</sub>	4 A
Nominal voltage U <sub>N</sub>	300 V

GOST 	
--	--

cUL Listed 	
Nominal current I <sub>N</sub>	4 A
Nominal voltage U <sub>N</sub>	300 V

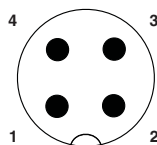
# Sensor/Actuator cable - SAC-4P-M12MR/0,6-PUR/M12FS D - 1696109

## Approvals



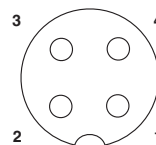
## Drawings

Schematic diagram



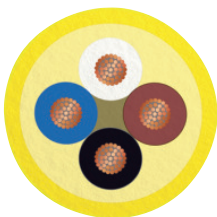
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Schematic diagram



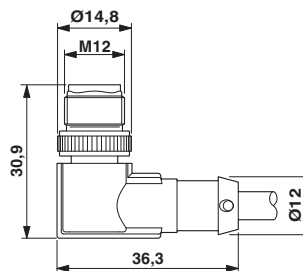
Pin assignment M12 socket, 12-pos., A-coded, view female side

Cable cross section



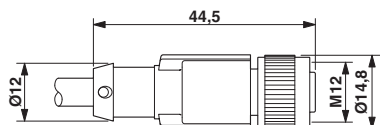
PUR/PVC yellow [140]

Dimensioned drawing



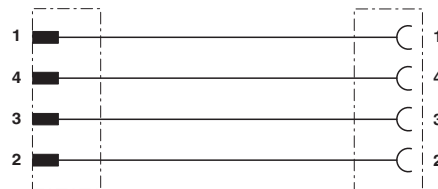
M12 x 1 male plug, angled, shielded

Dimensioned drawing



M12 x 1 socket, straight, shielded

Circuit diagram



Contact assignment of the M12 plug and the M12 socket