

## Sensor/Actuator cable - SAC-3P-M12Y/2X1,0-140/M12FS - 1502303

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Sensor/Actuator cable, 3-position, PUR/PVC, Yellow RAL 1021, Plug straight M12, A-coded, on Socket straight M12, A-coded and Socket straight M12, A-coded, Cable length: 1 m

As shown in the illustration but with a yellow conductor



### Key commercial data

Packing unit	1 1
Weight per Piece (excluding packing)	102.6 GRM
Custom tariff number	85444290
Country of origin	China

### Technical data

#### Dimensions

Length of cable	1 m
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#### Ambient conditions

Degree of protection	IP65
	IP67
	IP68

#### General

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	3
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 10 GΩ
Coding	A - standard
Status display	No
Surge voltage category	II

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### Technical data

#### General

Pollution degree	3
Insertion/withdrawal cycles	≥ 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
Conductor cross section	0.34 mm <sup>2</sup>
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.52 mm ±0.02 mm
Thickness, insulation	≥ 0.23 mm (Core insulation)
	≥ 0.38 mm (Outer cable sheath)
	approx. 0.45 mm (Inner sheath)
Wire colors	brown, blue, black
Overall twist	3 wires, twisted
External sheath, color	Yellow RAL 1021
External cable diameter D	5.2 mm ± 0.2 mm
Smallest bending radius, fixed installation	52 mm
Smallest bending radius, movable installation	52 mm
Number of bending cycles	2000000
Bending radius	52 mm
Traversing path	5 m
Traversing rate	3 m/s
Cable weight	37 kg/km
Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires

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## Technical data

### Cable

Insulation resistance	≥ 100 MΩ*km (at 20 °C)
Conductor resistance	max. 57.3 Ω/km (at 20 °C)
Nominal voltage, cable	300 V
Test voltage, cable	2500 V
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
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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# Sensor/Actuator cable - SAC-3P-M12Y/2X1,0-140/M12FS - 1502303

## Approvals

Ex Approvals

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Approvals submitted

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## Approval details

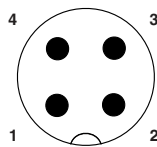
UL Listed	
Nominal current IN	4 A
Nominal voltage UN	300 V

cUL Listed	
Nominal current IN	4 A
Nominal voltage UN	300 V

cULus Listed	
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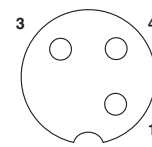
## Drawings

Schematic diagram



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

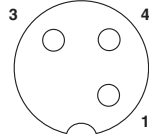
Schematic diagram



Pin assignment M12 socket, 3-pos., A-coded, view female side

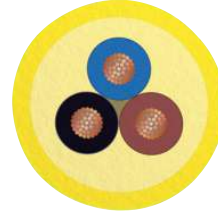
# Sensor/Actuator cable - SAC-3P-M12Y/2X1,0-140/M12FS - 1502303

Schematic diagram



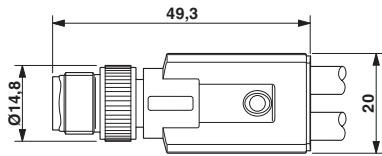
Pin assignment M12 socket, 3-pos., A-coded, view female side

Cable cross section



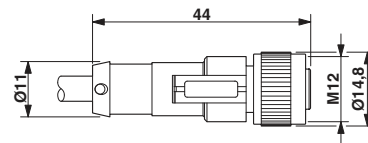
PUR/PVC yellow [140]

Dimensioned drawing



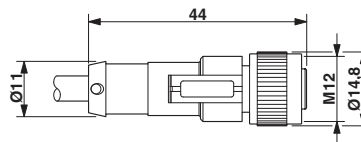
Plug M12 x 1, Y distributor

Dimensioned drawing



M12 x 1 socket, straight

Dimensioned drawing



M12 x 1 socket, straight