

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 ²
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	$\geq 100 \text{ M}\Omega \cdot \text{km}$ (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

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UL Listed / cUL Listed / cULus Listed

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Approvals

Ex Approvals

Approvals submitted

Approval details

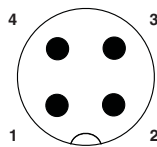
UL Listed	
Nominal current IN	4 A
Nominal voltage UN	300 V

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

cULus Listed	
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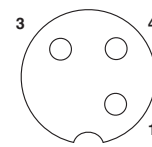
Drawings

Schematic diagram



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

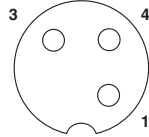
Schematic diagram



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

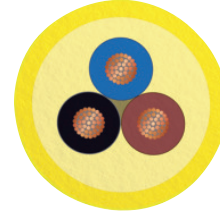
Sensor/Actuator cable - SAC-3P-M12Y/2X1,0-140/M12FS - 1502303

Schematic diagram



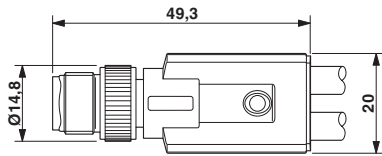
Pin assignment M12 socket, 3-pos., A-coded, view female side

Cable cross section



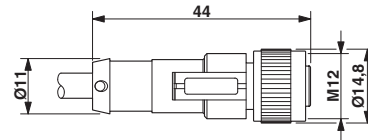
PUR/PVC yellow [140]

Dimensioned drawing



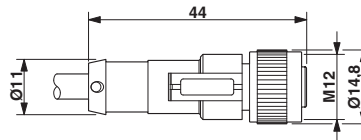
Plug M12 x 1, Y distributor

Dimensioned drawing



M12 x 1 socket, straight

Dimensioned drawing



M12 x 1 socket, straight