

SAC-4P-M12MR/3,0-PUR/M12FR D

Order No.: 1696167

The illustration shows cable in straight and angled versions connected to an angled female connector



Sensor/Actuator cable, 4-position, PUR/PVC, Yellow RAL 1021, Plug, angled M12, A-coded, on Socket, angled M12, A-coded, Cable length: 3 m



Commercial data

EAN	 4 017918 181130
Note	Made-to-order
Pack	5
Customs tariff	85444290
Catalog page information	Page 105 (PC-2002)

Product notes

WEEE/RoHS-compliant since:
2005-06-01



Technical data

General data

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	4
Volume resistance	$\leq 5 \text{ m}\Omega$

Insulation resistance	$\geq 100 \text{ M}\Omega$
Length of cable	3 m
Ambient temperature (operation)	-25 °C ... 90 °C (Male connector / female connector)

General characteristics

Coding	A - standard
Surge voltage category	II
Pollution degree	3
Degree of protection	IP65/IP68/IP69K
Insertion/withdrawal cycles	≥ 100
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
Status display	No

Conductor data

Cable type	PUR/PVC yellow
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	1.5 mm ± 0.05 mm
Thickness, insulation	≥ 0.3 mm (Core insulation)
	≥ 0.38 mm (Outer cable sheath)
	Approx. 0.35 mm (Inner sheath)
External cable diameter	5.20 mm
Wire colors	Brown, white, blue, black
External sheath, color	Yellow RAL 1021
Insulation resistance	$\geq 1 \text{ G}\Omega \cdot \text{km}$
Conductor resistance	max. 58 Ω/km
Nominal voltage, conductor	300 V
Test voltage, conductor	3000 V
Overall twist	4 wires, twisted

Outer sheath, material	PUR
Material, inner sheath	PVC
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Cable weight	39 kg/km
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
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (cable, flexible installation)

Certificates

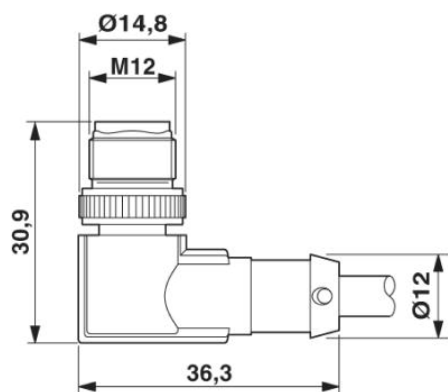


Certification

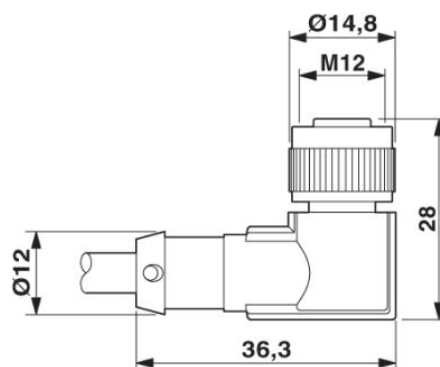
CUL Listed, GOST, UL Listed

Drawings

Dimensioned drawing

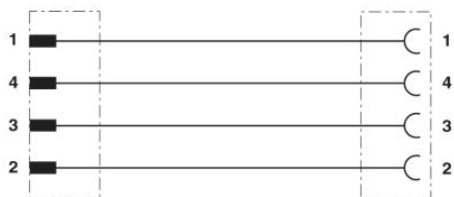


M12 x 1 male connector, angled, shielded



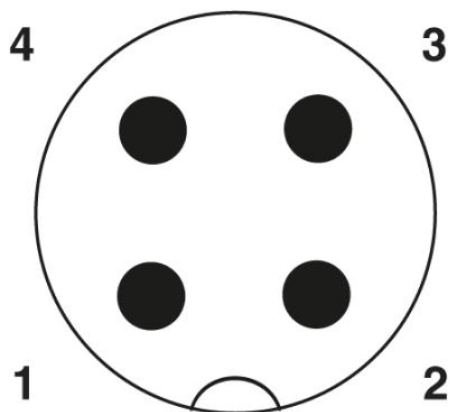
M12 x 1 female connector, angled, shielded

Circuit diagram

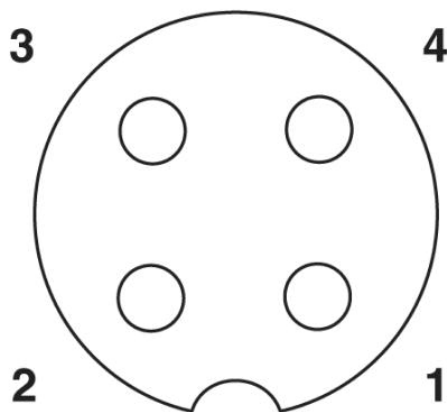


Contact assignment of the M12 plug and the M12 socket

Schematic diagram



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



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