

SAC-4P-M12MS/ 0,5-186/M12FS

Order No.: 1509539

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Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug, straight M12, A-coded, on Socket, straight M12, A-coded, Cable length: 0.5 m

Commercial data

GTIN (EAN)	4017918899172
sales group	D111
Pack	1 pcs.
Customs tariff	85444290
Weight/Piece	0.0485 KG
Catalog page information	Page 12 (PC-2005)

Product notes

WEEE/RoHS-compliant since:
11/07/2006



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Technical data**General data**

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	4
Volume resistance	≤ 5 mΩ

Insulation resistance	$\geq 100 \text{ M}\Omega$
Length of cable	0.5 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 POWER 0.75 mm ² black
Cable type (abbreviation)	186
Cable abbreviation	LiY11Y
Conductor cross section	0.75 mm ²
AWG signal line	18
Conductor structure signal line	42x 0.15 mm
Core diameter including insulation	1.75 mm $\pm$ 0.05 mm
Thickness, insulation	$\geq 0.23 \text{ mm}$ (Core insulation)
	$\geq 0.76 \text{ mm}$ (Outer cable sheath)
External cable diameter	5.90 mm
Wire colors	Brown, white, blue, black
External sheath, color	Black-gray RAL 7021
Insulation resistance	$\geq 1 \text{ M}\Omega \cdot \text{km}$
Conductor resistance	max. 26 Ω/km
Nominal voltage, conductor	$\leq 300 \text{ V}$
Test voltage, conductor	$\geq 3000 \text{ V}$
Overall twist	4 wires, twisted

Outer sheath, material	PUR
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Cable weight	57 kg/km
Smallest bending radius, movable installation	59 mm
Number of bending cycles	2000000
Bending radius	59 mm
Traversing path	5 m
Traversing rate	3 m/s
Acceleration	5 m/s ²
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (cable, flexible installation)
Flame resistance	in accordance with DIN UL-Style 20549

Certificates / Approvals

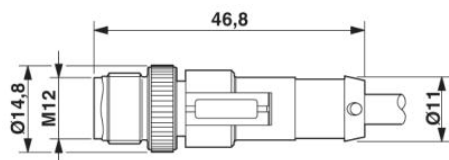


Certification

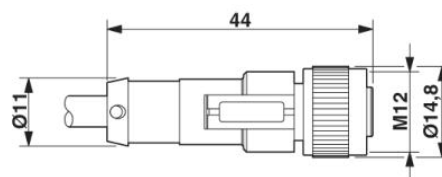
CUL Listed, UL Listed

Diagrams/Drawings

Dimensioned drawing

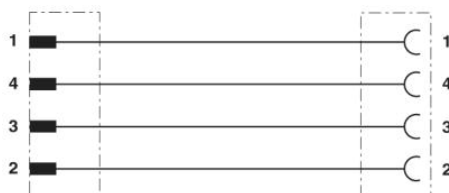


M12 x 1 male connector, straight



M12 x 1 female connector, straight

Circuit diagram



Contact assignment of the M12 connector and the M12 socket

Schematic diagram



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



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

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