

## Sensor/Actuator cable - SAC-4P-M12MS/ 8,0-186/M12FS P - 1557361

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://download.phoenixcontact.com>)



Sensor/Actuator cable, 4-position, PUR, Black-gray RAL 7021, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 8 m

however, with plastic knurl



### Key commercial data

Packing unit	1 1
Weight per Piece (excluding packing)	440.0 GRM
Custom tariff number	85444290
Country of origin	Poland

### Technical data

#### Dimensions

Length of cable	8 m
-----------------	-----

#### Ambient conditions

Degree of protection	IP65
	IP67
	IP68

#### General

Rated current at 40°C	4 A
Rated voltage	250 V
Number of positions	4
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Status display	No
Surge voltage category	II

## Sensor/Actuator cable - SAC-4P-M12MS/ 8,0-186/M12FS P - 1557361

### 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	Plastic
Sealing material	NBR

#### Cable

Cable type	PUR/PVC black
Cable abbreviation	LiYY11Y
Conductor cross section	0.75 mm <sup>2</sup>
AWG signal line	18
Conductor structure signal line	42x 0.15 mm
Core diameter including insulation	1.77 mm ±0.02 mm
Thickness, insulation	approx. 0.3 mm (Core insulation)
	approx. 0.8 mm (Outer cable sheath)
Wire colors	brown, white, blue, black
Overall twist	4 wires, twisted
External sheath, color	Black-gray RAL 7021
External cable diameter	5.90 mm
Smallest bending radius, fixed installation	59 mm
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
Cable weight	57 kg/km
Outer sheath, material	PUR
Material conductor insulation	PVC
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 10 GΩ*km
Conductor resistance	≤ 25.8 Ω/km
Nominal voltage, cable	300 V

# Sensor/Actuator cable - SAC-4P-M12MS/ 8,0-186/M12FS P - 1557361

## Technical data

### Cable

Test voltage, cable	≥ 3000 V
---------------------	----------

## 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 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

---

#### Approvals

UL Listed / cUL Listed / cULus Listed

---

#### Ex Approvals

---

#### Approvals submitted

---

# Sensor/Actuator cable - SAC-4P-M12MS/ 8,0-186/M12FS P - 1557361

## Approvals

### Approval details

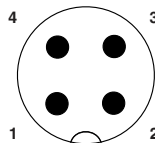
UL Listed	
Nominal current I <sub>N</sub>	4 A
Nominal voltage U <sub>N</sub>	300 V

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

cULus Listed	
--------------	--

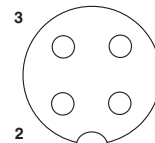
## Drawings

Schematic diagram



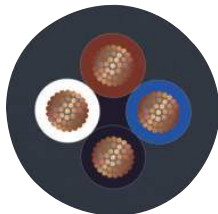
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Schematic diagram



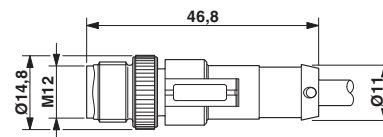
Pin assignment M12 socket, 4-pos., A-coded, view female side

Cable cross section



PUR POWER 0.75 mm<sup>2</sup> black [186]

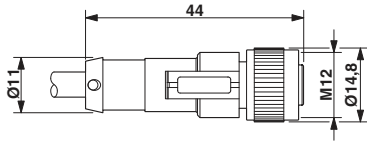
Dimensioned drawing



M12 x 1 plug, straight

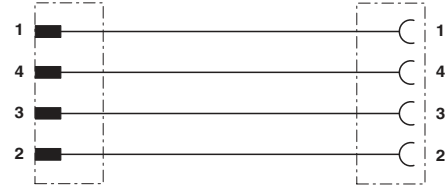
# Sensor/Actuator cable - SAC-4P-M12MS/ 8,0-186/M12FS P - 1557361

Dimensioned drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of the M12 plug and the M12 socket