

## SAC-4P-M12MSD/ 5,0-930/M12MSD

This product has been replaced by a newer version.

Order No.: 1524051



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1524051>

Bus system cable, 4-position, PUR, halogen-free, water blue RAL 5021, shielded, Plug, straight M12, D-coded, on Plug, straight M12, D-coded, Cable length: 5 m

### Ethernet

#### Product notes

WEEE/RoHS-compliant since:  
12/01/2005



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#### Commercial data

GTIN (EAN)	4017918969028
Note	Made-to-order
sales group	D117
Pack	1 pcs.
Customs tariff	85444290
Weight/Piece	0.3345 KG
Catalog page information	Page 182 (AX-2007)

#### Technical data

##### General data

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	4

Volume resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Length of cable	5 m

#### General characteristics

Coding	D - data
Surge voltage category	II
Pollution degree	3
Degree of protection	IP65/IP67/IP69K
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 66
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, (nickel-plated)
Status display	No

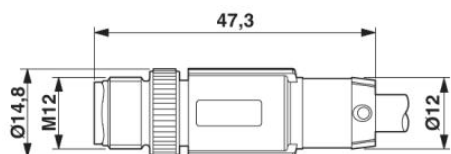
#### Conductor data

Cable type	Ethernet
Cable type (abbreviation)	930
Conductor cross section	0.25 mm <sup>2</sup>
AWG signal line	24
Conductor structure signal line	7x 0.20 mm
Core diameter including insulation	1.4 mm
External cable diameter	8.00 mm
Wire colors	White-green, white-orange
External sheath, color	water blue RAL 5021
Insulation resistance	5 G $\Omega$ *km
Conductor resistance	84 m $\Omega$ /m
Working capacitance	42.5 pF
Wave impedance	100 $\Omega$ $\pm$ 5%
Signal speed	0.72 c
Signal runtime	46 ns/m
Shield attenuation	60 dB (Up to 1000 MHz)
Interference suppression	90 dB (Up to 1000 MHz)
Nominal voltage, conductor	125 V
Test voltage, conductor	1000 V

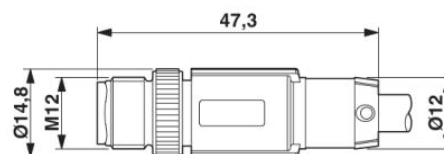
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	2 cores with 2 fillers to the core
Shielding	Braided shielding made of galvanized copper wires
Optical shield covering	65 %
Outer sheath, material	PUR
Material conductor insulation	Cell PE
Conductor material	Bare Cu litz wires
Cable weight	54 kg/km
Smallest bending radius, fixed installation	min. 40 mm
Smallest bending radius, movable installation	min. 40 mm
Ambient temperature (operation)	-20 °C ... 70 °C (cable, fixed installation) 0 °C ... 50 °C (cable, flexible installation)

### Diagrams/Drawings

#### Dimensioned drawing

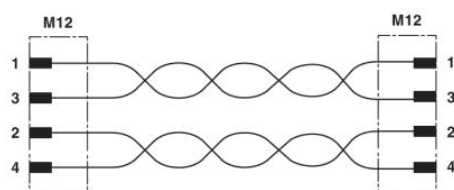


M12 x 1 male connector, straight, shielded



M12 x 1 male connector, straight, shielded

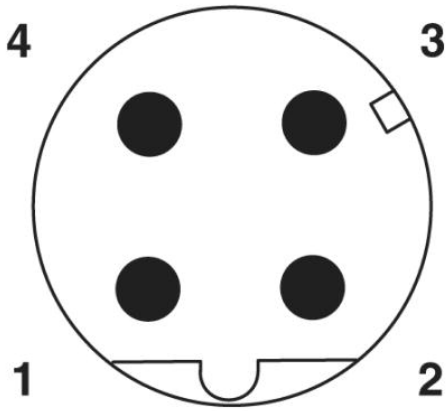
#### Circuit diagram



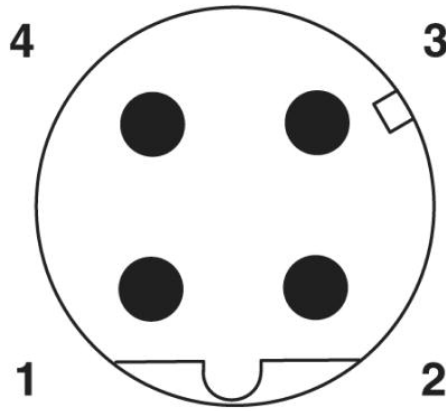
Contact assignment of M12 connector/socket

Schematic diagram

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Pin assignment M12 male connector, 4-pos., D-coded, male side



Pin assignment M12 male connector, 4-pos., D-coded, male side

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