

**SAC-4P-M12MSD/ 5,0-931**

Order No.: 1569401

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Bus system cable, ETHERNET, 4-pos., PUR blue halogen-free, shielded, straight connector M12 D-coded on free conductor end, length: 5 m

**Ethernet****Product notes**

WEEE/RoHS-compliant since:  
12/20/2007



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**Commercial data**

EAN	4046356336215
Pack	1 pcs.
Customs tariff	85444290
Weight/Piece	0.2484 KG
Catalog page information	Page 381 (AX-2009)

**Technical data****General data**

Nominal current $I_N$	4 A
Nominal voltage $U_N$	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
Ambient temperature (operation)	-25 °C ... 90 °C (plug/socket)
	-20 °C ... 60 °C (cable, fixed installation)
	0 °C ... 50 °C (cable, flexible installation)

#### General characteristics

Coding	D - data
Inflammability class acc. to UL 94	V0
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

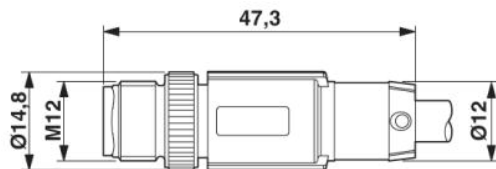
#### Conductor data

Cable type	Ethernet
Cable type (abbreviation)	931
Conductor cross section	0.14 mm <sup>2</sup>
AWG signal line	26
Conductor structure, signal line	7x 0.15 mm
Core diameter including insulation	1.05 mm
External cable diameter	6.70 mm
Wire colors	White-green, white-orange
External sheath, color	water blue RAL 5021
Insulation resistance	$\geq 5 \text{ G}\Omega \cdot \text{km}$
Conductor resistance	$\leq 150 \text{ }\Omega/\text{km}$
Working capacitance	42 pF
Wave impedance	100 $\Omega \pm 5\%$ (At 100 MHz)
Signal speed	0.72 c
Shield attenuation	60 dB (Up to 1000 MHz)

Coupling resistance	5.00 mΩ/m (At 10 MHz)
Nominal voltage, conductor	Max. 125 V
Test voltage, conductor	1000 V
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	Two pairs with two fillers to the core
Shielding	Braided shielding made of tin-plated copper wires
Outer sheath, material	PUR
Material conductor insulation	Cell PE
Conductor material	Bare Cu litz wires
Smallest bending radius, fixed installation	34 mm
Special properties	Free of substances which would hinder coating with paint or varnish
Flame resistance	complying with IEC 60332-2-2
Freedom from halogen	complying with IEC 60754-1/2
Resistance to oil	complying with DIN EN 60811-2-1
Other resistance	Microbe resistance as per VDE 0282 section 10 Hydrolysis resistance as per DIN 53504

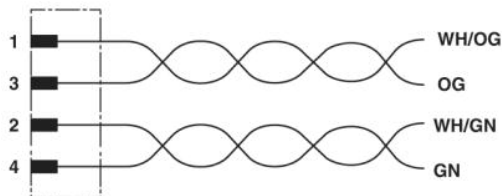
## Drawings

### Dimensioned drawing



M12 x 1 male connector, straight, shielded

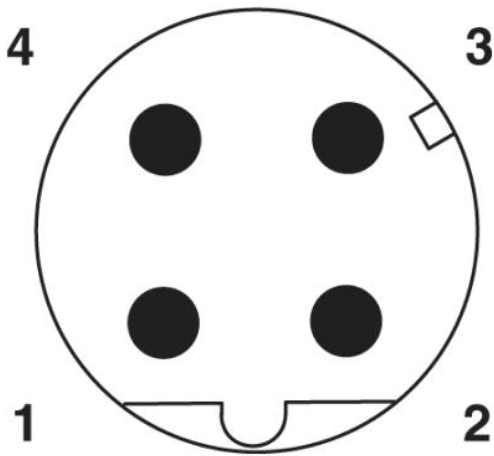
### Circuit diagram



Contact assignment of the M12 plug

Schematic diagram

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



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