



Extract from the online
catalog

SAC-4P-M12MSD/ 2,0-931

Order No.: 1569391



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1569391>

Bus system cable, ETHERNET, 4-pos., PUR blue halogen-free, shielded, straight connector M12 D-coded on free conductor end, length: 2 m

Ethernet

Commercial data

EAN	4046356336208
Pack	1 pcs.
Customs tariff	85444290
Weight/Piece	0.1152 KG
Catalog page information	Page 381 (AX-2009)

Product notes

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



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Technical data

General data

Nominal current I_N	4 A
Nominal voltage U_N	60 V
Number of positions	4

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Volume resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Length of cable	2 m
Stripping length of the free conductor end	50 mm
Ambient temperature (operation)	-25 °C ... 90 °C (plug/socket)

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

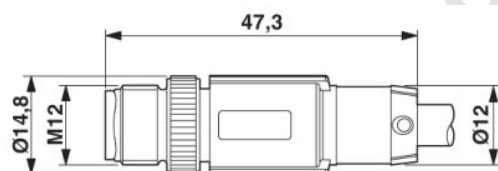
Cable type	Ethernet
Cable type (abbreviation)	931
Conductor cross section	0.14 mm ²
AWG signal line	26
Conductor structure, signal line	7x 0.15 mm
Core diameter including insulation	1.05 mm
External cable diameter	6.70 mm
Wire colors	White-green, white-orange
External sheath, color	water blue RAL 5021
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 m Ω/m (At 10 MHz)
Nominal voltage, conductor	max. 125 V

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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
Ambient temperature (operation)	-40 °C ... 70 °C (cable, fixed installation)
	-10 °C ... 50 °C (cable, flexible installation)
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

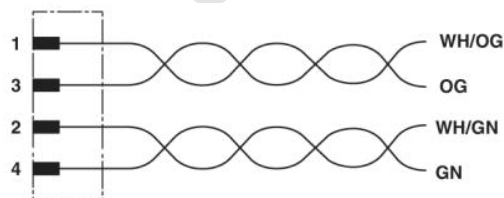
Drawings

Dimensioned drawing



M12 x 1 male connector, straight, shielded

Circuit diagram

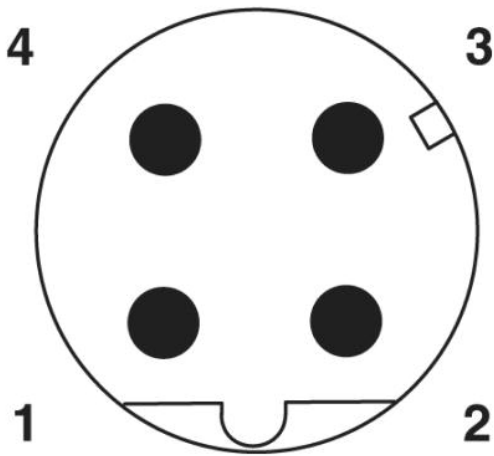


Contact assignment of the M12 plug

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Schematic diagram

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



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Address

PHOENIX CONTACT Deutschland GmbH
Flachsmarktstr. 8
32825 Blomberg, Germany
Phone +49 5235 3 12000
Fax +49 5235 3 41200
<http://www.phoenixcontact.de>



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