

Network cable - NBC-M12MRD/10,0-93P/R4AQ - 1417985

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), M12 plug to RJ45 plug/IP20, line, length: 10 m

As shown in the illustration but with an angled plug



Ethernet

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	25 pc
GTIN	 4 055626 200606
GTIN	4055626200606

Technical data

Dimensions

Length of cable	10 m
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Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (M12 connector)
	-25 °C ... 60 °C (cable, fixed installation)
	-5 °C ... 50 °C (cable, flexible installation)

General data

Rated voltage	48 V AC
	60 V DC
Number of positions	4
Signal type/category	Ethernet CAT5 (IEC 11801:2002)
Standards/regulations	M12 connector IEC 61076-2-101
Degree of pollution	3
Alternative short product description	Ethernet cable
Contact material	CuSn

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Technical data

General data

Contact carrier material	TPU GF
Contact surface material	Ni/Au
Housing material	Plastic

Characteristics head 1

Head type	Plug angled M12 / IP67
No. of positions (pin connector pattern)	4
Color	black
Material (component)	CuZn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carriers)
	TPU, hardly inflammable, self-extinguishing (Grip)
	Zinc die-cast, nickel-plated (Screw connection)
Insulation resistance	≥ 100 MΩ
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm

Characteristics head 2

Head type	Plug straight RJ45 Push Pull / IP67
No. of positions (pin connector pattern)	4 (8)
Color	black
Material (component)	CuSn (Contact)
	Ni/Au (Contact surface)
	PC (Contact carriers)
	PA GF (Housing)
Insertion/withdrawal cycles	≥ 750

Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	V2

Cable

Cable type	Ethernet
Cable type (abbreviation)	93P
UL AWM style	2654 (90 °C / 300 V)
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps
Cable structure	2x2xAWG26/7; SF/UTP
Conductor cross section	2x 2x 0.14 mm ²
AWG signal line	26
Conductor structure signal line	7x 0.16 mm
Core diameter including insulation	0.98 mm ±0.05 mm
Wire colors	white/orange-orange, white/green-green

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Technical data

Cable

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	Tinned copper braided shield
Optical shield covering	85 %
External sheath, color	water blue RAL 5021
Outer sheath thickness	≥ 1 mm
External cable diameter D	6.4 mm ±0.2 mm
Smallest bending radius, movable installation	25 mm
Tensile strength GRP	≤ 40 N
Outer sheath, material	PVC
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	> 5 GΩ*km
Conductor resistance	≤ 140 Ω/km
Working capacitance	< 56 nF
Wave impedance	100 Ω ±5 % (at 100 MHz)
Signal speed	0.6 c
Signal runtime	0.4 ns/m
Shield attenuation	32 dB (up to 100 MHz)
Nominal voltage, cable	≤ 300 V AC
	≤ 450 V DC
Test voltage Core/Core	2500 V DC
Flame resistance	According to VW-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Resistant to cleaning agents/disinfectants According to ECOLAB F&E/ P3-E No. 40-1
Ambient temperature (operation)	-40 °C ... 90 °C
Ambient temperature (installation)	0 °C ... 50 °C

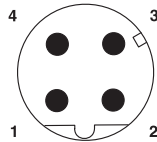
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

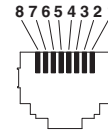
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Schematic diagram



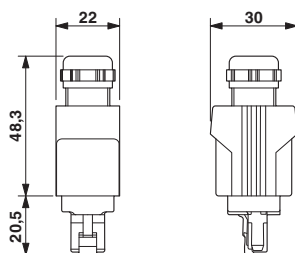
Pin assignment M12 male connector, 4-pos., D-coded, male side

Schematic diagram



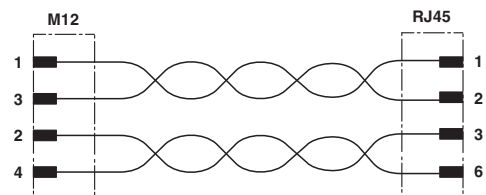
Connector pin assignment plug RJ45

Dimensional drawing



RJ45 Push-Pull connector, IP67

Circuit diagram



Contact assignment of the M12 and RJ45 plug

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

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