

NBC-MSD/ 0,5-93E/R4AC SCO US

Order No.: 1408733

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Network cable, Ethernet CAT5, Ethernet CAT5e, 4-position, PUR halogen-free, water blue RAL 5021, shielded, Plug Straight M12 SPEEDCON / IP67, Coding: D, on Plug Straight RJ45 / IP20, Cable length: 0.5 m

Ethernet



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Commercial data

EAN	 4 046356 828710
Note	Made-to-order
sales group	D117
Pack	1 Pcs.
Customs tariff	85444210
Gross weight in pieces	0.02222 KG
Net weight per piece	0.02222 KG

Technical data**Dimensions**

Length of cable	0.5 m
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Ambient conditions

Degree of protection	IP65 (M12 connector)
	IP67 (M12 connector)
	IP20 (RJ45 connector)

General data

Rated current at 40°C	1 A
Rated voltage	50 V
Number of positions	4
Signal type/category	Ethernet CAT5 (IEC 11801:2002) Ethernet CAT5e (TIA 568B:2001)
Standards/regulations	M12 connector IEC 61076-2-101

Characteristics head 1

Head type	Plug Straight M12 SPEEDCON / IP67
Coding	D (Data)

Characteristics head 2

Head type	Plug Straight RJ45 / IP20
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Cable

Cable type	PUR ETHERNET 2x2 FLEX
Cable type (abbreviation)	93E
UL AWM style	20963 (80°C/30 V)
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps Ethernet CAT5e (TIA 568B), 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
Wire colors	white/orange-orange, white/green-green
Twisted pairs	2 cores to the pair
Overall twist	Two pairs with two fillers to the core
Shielding	Aluminum-coated foil, tinned copper braided shield
Optical shield covering	70 %
External sheath, color	water blue RAL 5021
Outer sheath thickness	1.2 mm
External cable diameter D	6.4 mm ±0.2 mm
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Tensile strength short-term/long-term	≤ 80N

Cable weight	42 kg/km
Outer sheath, material	PUR
Material conductor insulation	Foamed PE
Conductor material	Bare Cu litz wires
Insulation resistance	$\geq 500 \text{ M}\Omega \cdot \text{km}$
Conductor resistance	$\leq 290 \text{ }\Omega/\text{km}$
Cable capacity	approx. 45 nF/km (At 1 kHz)
Wave impedance	$100 \text{ }\Omega \pm 5 \text{ }\Omega$ (at 100 MHz)
Signal runtime	5.3 ns/m
Coupling resistance	$\leq 100.00 \text{ m}\Omega/\text{m}$ (At 10 MHz)
Nominal voltage, cable	$\leq 100 \text{ V}$
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700 V (50 Hz, 1 min.)
Flame resistance	According to IEC 60332-1-2
Halogen-free	According to IEC 60754-1
Resistance to oil	in accordance with DIN EN 60811-2-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -20 °C ... 80 °C (cable, flexible installation)
Ambient temperature (installation)	-20 °C ... 80 °C
Ambient temperature (storage/transport)	-20 °C ... 80 °C

Certificates / Approvals



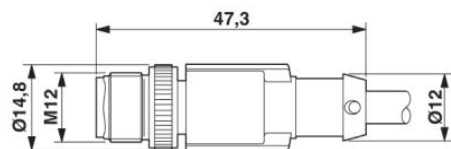
Certification UL Listed

Certifications applied for:

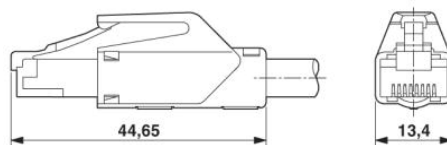
Certification Ex:

Drawings

Dimensioned drawing

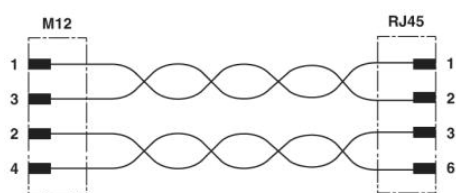


Plug, M12 x 1, straight, shielded



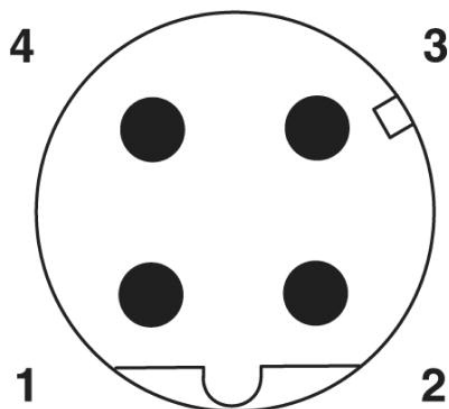
RJ45 connector, IP20

Circuit diagram

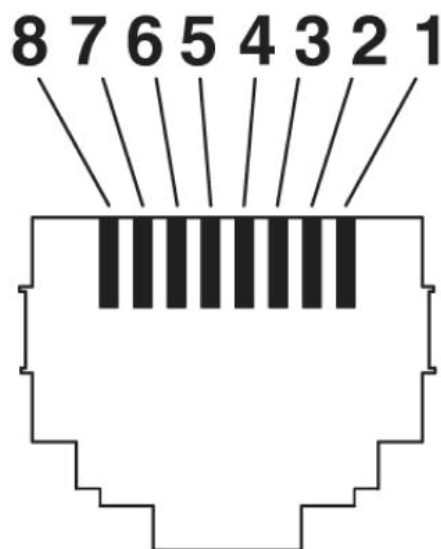


Contact assignment of the M12 and RJ45 plug

Schematic diagram

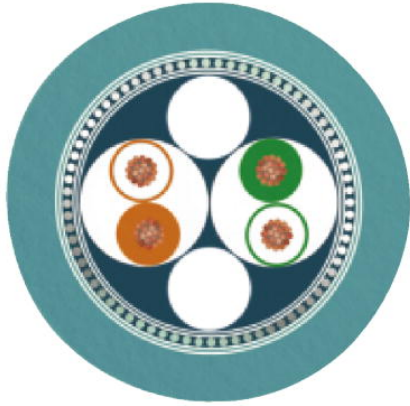


Pin assignment M12 male connector, 4-pos., D-coded, male side



Connector pin assignment plug RJ45

PUR ETHERNET 2x2 FLEX [93E]



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