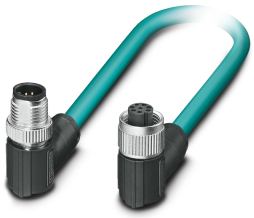
Network cable - NBC-M12MR/ 0,5-94L/M12FR - 1192100

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Network cable, Ethernet CAT5e (1 Gbps), 8-position, TPE, Teal, Plug angled M12 / IP65, coding: A, on Socket angled M12 / IP65, coding: A, cable length: 0.5 m

RoHS

Ethernet

Key Commercial Data

Packing unit	1 pc
GTIN	4 063151 325237
GTIN	4063151325237
Country of origin	United States

Technical data

Dimensions

Length of cable	0.5 m

Ambient conditions

Degree of protection	IP65
Ambient temperature (operation)	-25 °C ... 85 °C (M12 connector)

General data

Rated current at 40°C	2 A (Plug/socket in accordance with IEC 61076-2-101, cable technical data is to be observed)
Rated voltage	48 V AC
	60 V DC
Number of positions	8
Signal type/category	Ethernet CAT5e, 1 Gbps
Standards/regulations	M12 connector IEC 61076-2-101

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Technical data

General data

Contact material	CuSn
Contact carrier material	TPU GF
Contact surface material	Ni/Au
Transmission characteristics (category)	CAT5e
Transmission speed	1 Gbps

Characteristics head 1

Head type	Plug angled M12 / IP65
Coding	A (Standard)

Characteristics head 2

Head type	Socket angled M12 / IP65
Coding	A (Standard)

Standards and Regulations

Standards/specifications	M12 connector IEC 61076-2-101

Cable

Cable type (abbreviation)	94L
UL AWM style	2463 (80 °C / 600 V)
Signal type/category	Ethernet CAT5e (TIA 568B)
Cable structure	4x2xAWG24/7; SF/UTP
Conductor cross section	4x 2x 0.2 mm²
AWG signal line	24
Conductor structure signal line	7x 0.20 mm (7x32)
Core diameter including insulation	1.2 mm
Wire colors	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Twisted pairs	2 cores to the pair
Overall twist	4 pairs for core
Shielding	Aluminum-lined polyester foil, tinned copper braided shield
Optical shield covering	75 %
External sheath, color	Teal
External cable diameter D	7.4 mm ±0.25 mm
Number of bending cycles	1000000
Minimum bending radius, drag chain applications	10 x D
Number of bending cycles	10000000
Minimum bending radius, drag chain applications	20 X D
Torsion force	1 lb. load
Torsion cycles	4800000

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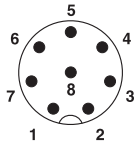
Technical data

Cable

Torsional frequency	71 (cycles/min)
Ambient temperature (operation)	20 °C
Outer sheath, material	TPE
Material conductor insulation	PE
Conductor material	Tin-plated Cu litz wires
Wave impedance	100 Ω ±15 Ω (at 100 MHz)
Near end crosstalk attenuation (NEXT)	50 dB (with 100 MHz (IEC 62153-4-9))
Return loss (RL)	20 dB (at 10 MHz (+6LOG))
	26 dB (at 20 MHz)
	26 dB (at 100 MHz (-5LOG))
Cable impedance	100 Ω ±15 Ω (at 1 ... 100 MHz)
Nominal voltage, cable	600 V
Test voltage, cable	2000 V
Flame resistance	VW-1
Other resistance	Resistant to welding splashes Abrasion and oil resistance
	UV resistant CMX outdoor
Ambient temperature (operation)	-40 °C ... 80 °C (Cable, flexible installation)
Shielded	yes

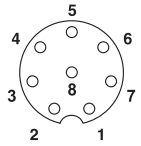
Drawings

Schematic diagram



Pin assignment M12 plug, 8-pos., A-coded, view plug side

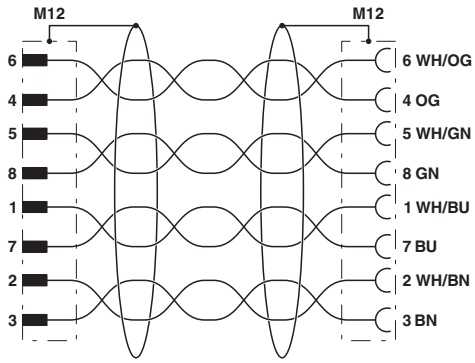
Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

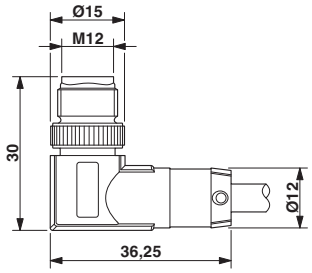
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Circuit diagram



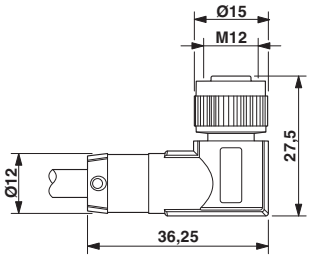
Contact assignment of the M12 connector and the M12 socket

Dimensional drawing



M12 x 1 male plug, angled, shielded

Dimensional drawing



M12 x 1 socket, angled, shielded

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Cable cross section



Classifications

eCl@ss

eCl@ss 9.0	27060308
eCl@ss 11.0	27060307

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Network cable - NBC-M12MR/ 0,5-94L/M12FR - 1192100

Approvals

Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	File E335024

Nominal voltage UN	60 V
Nominal current IN	1.5 A

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	File E335024

Nominal voltage UN	60 V
Nominal current IN	1.5 A

cULus Listed	

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