

## Network cable - NBC-M12MR/ 2,0-94L/R4AC - 1192087


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Network cable, Ethernet CAT5e (1 Gbps), 8-position, TPE, Teal, Plug angled M12 / IP65, coding: A, on Plug straight RJ45 / IP20, cable length: 2 m



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 063151 325275
GTIN	4063151325275
Weight per Piece (excluding packing)	160.000 g
Country of origin	United States

### Technical data

#### Dimensions

Length of cable	2 m
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#### 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)
	1.5 A (RJ45)
Rated voltage	48 V AC
	60 V DC
Number of positions	8

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## Technical data

### General data

Signal type/category	Ethernet CAT5e, 1 Gbps
Standards/regulations	M12 connector IEC 61076-2-101
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	Plug straight RJ45 / IP20
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### Standards and Regulations

Standards/specifications	M12 connector IEC 61076-2-101
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### 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 mm <sup>2</sup>
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

# Network cable - NBC-M12MR/ 2,0-94L/R4AC - 1192087

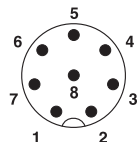
## Technical data

### Cable

Torsion cycles	4800000
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

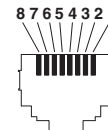
## Drawings

Schematic diagram



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

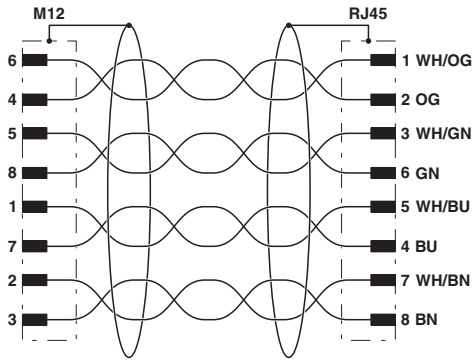
Schematic diagram



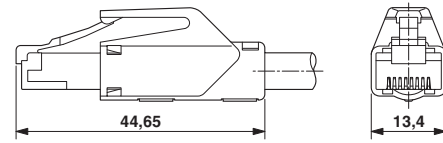
Connector pin assignment plug RJ45

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Circuit diagram



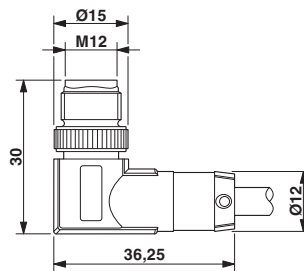
Dimensional drawing



RJ45 connector, IP20

Contact assignment of the M12 and RJ45 plug

Dimensional drawing



M12 x 1 male plug, angled, shielded

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Cable cross section



## Classifications

eCl@ss

eCl@ss 9.0	27060308
eCl@ss 11.0	27060307

## Approvals

Approvals

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Approvals

UL Listed / cUL Listed / cULus Listed


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## Approvals

Ex Approvals

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	File E335024
Nominal voltage UN	60 V		
Nominal current IN	0.5 A		

cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	File E335024
Nominal voltage UN	60 V		
Nominal current IN	0.5 A		

cULus Listed			
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