

## Network cable - NBC-M12MS/ 2,0-94L/M12MS - 1192111

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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



### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 063151 344115 |
| GTIN                                 | 4063151344115                                                                                           |
| Weight per Piece (excluding packing) | 160.000 g                                                                                               |
| Country of origin                    | United States                                                                                           |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 2 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                                                                       |

# Network cable - NBC-M12MS/ 2,0-94L/M12MS - 1192111

## Technical data

### General data

|                                         |                               |
|-----------------------------------------|-------------------------------|
| 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 straight M12 / IP65 |
| Coding    | A (Standard)             |

### Characteristics head 2

|           |                          |
|-----------|--------------------------|
| Head type | Plug straight 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 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-M12MS/ 2,0-94L/M12MS - 1192111

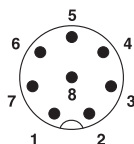
## Technical data

### 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                                                       |

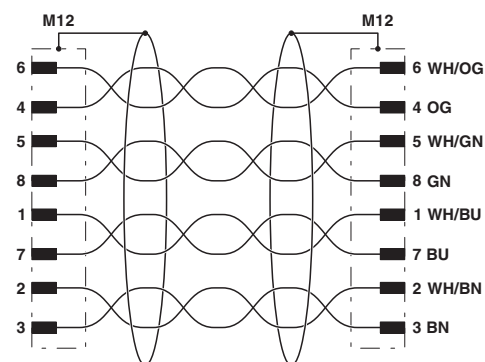
## Drawings

Schematic diagram



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

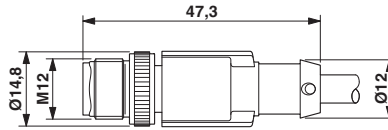
Circuit diagram



Contact assignment of the M12 plugs

## Network cable - NBC-M12MS/ 2,0-94L/M12MS - 1192111

Dimensional drawing



Plug, M12 x 1, straight, shielded

Cable cross section



## Network cable - NBC-M12MS/ 2,0-94L/M12MS - 1192111

### Classifications

eCl@ss

|             |          |
|-------------|----------|
| eCl@ss 9.0  | 27060308 |
| eCl@ss 11.0 | 27060307 |

### Approvals

#### Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

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 |                                                                                     | 1.5 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 |                                                                                     | 1.5 A                                                                                                                                                 |              |

|              |                                                                                     |  |  |
|--------------|-------------------------------------------------------------------------------------|--|--|
| cULus Listed |  |  |  |
|--------------|-------------------------------------------------------------------------------------|--|--|

单击下面可查看定价，库存，交付和生命周期等信息

[>>Phoenix Contact\(菲尼克斯\)](#)