

# NBC-M12MS/40,0-94L/R4AC - Network cable



1192089

<https://www.phoenixcontact.com/us/products/1192089>

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Network cable, Ethernet CAT5e (1 Gbps), 8-position, TPE, highly flexible, turquoise, Plug straight M12, coding: A / IP65, on Plug straight RJ45 / IP20, cable length: 40 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1192089                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF15                           |
| Product key                          | AF1IHD                         |
| GTIN                                 | 4063151344276                  |
| Weight per piece (including packing) | 22.22 g                        |
| Weight per piece (excluding packing) | 22.22 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | US                             |

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## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable preassembled |
| Application         | Standard, U.S. cables   |
| Number of positions | 8                       |
| Shielded            | yes                     |
| Coding              | A                       |

### Interfaces

|                      |                        |
|----------------------|------------------------|
| Bus system           | Ethernet               |
| Signal type/category | Ethernet CAT5e, 1 Gbps |

### Signaling

|                        |    |
|------------------------|----|
| Status display         | no |
| Status display present | no |

### Electrical properties

|                       |  |
|-----------------------|--|
| Nominal voltage $U_N$ | 48 V AC  |
|                       | 60 V DC (RJ45 30 V AC/57 V DC)   |
|                       | RJ45 30 V AC/57 V DC   |
| Nominal current $I_N$ | 2 A (Plug/socket in accordance with IEC 61076-2-101, cable technical data is to be observed) |
|                       | 1.5 A (RJ45)   |
| Transmission medium   | Copper   |
| Transmission speed    | 1 Gbps   |

### Connector

#### Connection 1

|                      |   |
|----------------------|---|
| Type                 | Plug straight M12 / IP65                                |
| Coding type          | A (Standard)  |
| Material             | CuZn (Contact)  |
|                      | Ni/Au (Contact surface)                                 |
|                      | TPU GF (Contact carrier)                                |
|                      | TPU, hardly inflammable, self-extinguishing (Grip body) |
|                      | Stainless steel (Screw connection)                      |
| Degree of protection | IP65  |

#### Connection 2

|              |                           |
|--------------|---------------------------|
| Type         | Plug straight RJ45 / IP20 |
| Handle color | gray                      |
| Material     | CuSn (Contact)            |
|              | Ni/Au (Contact surface)   |
|              | PC (Contact carrier)      |

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|                      |              |
|----------------------|--------------|
|                      | PA (Housing) |
| Degree of protection | IP20         |

## Cable/line

|              |      |
|--------------|------|
| Cable length | 40 m |
|--------------|------|

Highly flexible Ethernet CAT5e [94L]

|                                 |  |
|---------------------------------|--|
| Dimensional drawing             |    |
| UL AWM Style                    | 2463 (80 °C / 600 V)   |
| Number of positions             | 8  |
| Shielded                        | yes  |
| Cable type                      | Highly flexible Ethernet CAT5e [94L]   |
| Conductor structure             | 4x2xAWG24/7; SF/UTP  |
| Conductor structure signal line | 7x 0.20 mm (7x32)  |
| AWG signal line                 | 24   |
| Conductor cross-section         | 4x 2x 0.2 mm <sup>2</sup>  |
| Wire diameter incl. insulation  | 1.2 mm   |
| External cable diameter         | 7.40 mm ±0.25 mm   |
| Outer sheath, material          | TPE  |
| External sheath, color          | turquoise  |
| Conductor material              | Tin-plated Cu litz wires   |
| Material wire insulation        | PE   |
| Single wire, color              | 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   |
| Optical shield covering         | 75 %   |
| Wave impedance                  | 100 Ω ±15 Ω (at 100 MHz)   |
| Cable impedance                 | 100 Ω ±15 Ω (at 1 ... 100 MHz)   |
| Nominal voltage, cable          | 600 V  |
| Test voltage                    | 2000 V   |
| Dynamic load capacity (bending) | Max. bending cycles: 1000000, Bending radius: 10 x D, Traversing path: 0.23 m, Traversing rate: 1.5 m/s, Acceleration: 20.5 m/s <sup>2</sup><br>Max. bending cycles: 10000000, Bending radius: 20 X D (126 cycles/min. at 20 °C) |
| Dynamic load capacity (torsion) | Torsion: 360 °/m (1 lb. load), Torsion cycles: 4800000, Torsional frequency: 71 cycles/min, Ambient temperature (operation): 20 °C   |

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|                                       |   |
|---------------------------------------|---|
| Near end crosstalk attenuation (NEXT) | 50 dB (with 100 MHz (IEC 62153-4-9))                        |
| Return attenuation (RL)               | 20 dB (at 10 MHz (+6LOG))                                   |
|                                       | 26 dB (at 20 MHz)   |
|                                       | 26 dB (at 100 MHz (-5LOG))                                  |
| 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)             |

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

### M12

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M12 connector   |
| Standards/specifications | IEC 61076-2-101 |

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## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



RJ45 connector, IP20

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Schematic diagram



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

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Schematic diagram



Connector pin assignment plug RJ45

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Circuit diagram



Contact assignment of the M12 and RJ45 plug

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1192089>

|  <b>UL Listed</b><br>Approval ID: File E335024 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 60 V                  | 0.5 A                 | -                 | -                           |

|  <b>cUL Listed</b><br>Approval ID: File E335024 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |   |
|-------------------------------------|---|
| REACH candidate substance (CAS No.) | bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof(CAS: 26040-51-7) |
|-------------------------------------|---|

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