

# NBC- 2,0-94B/M12FS - Network cable



1407440

<https://www.phoenixcontact.com/us/products/1407440>

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Network cable, Ethernet CAT5 (1 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), free cable end, on Socket straight M12, coding: A / IP67, cable length: 2 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1407440       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF04          |
| Product key                          | AF1CMI        |
| GTIN                                 | 4046356775618 |
| Weight per piece (including packing) | 118.4 g       |
| Weight per piece (excluding packing) | 118.7 g       |
| Customs tariff number                | 85444210      |
| Country of origin                    | PL            |

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## Technical data

### Notes

|         |   |
|---------|---|
| General | Further products with variable cable type and variable cable length can be found in the accessories section |
|---------|---|

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable preassembled |
| Application         | Standard                |
| Sensor type         | Ethernet                |
| Number of positions | 8                       |
| Shielded            | yes                     |

### Interfaces

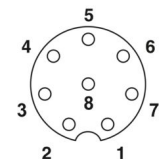
|                      |                                   |
|----------------------|-----------------------------------|
| Signal type/category | Ethernet CAT5 (IEC 11801), 1 Gbps |
|----------------------|-----------------------------------|

### Electrical properties

|                       |         |
|-----------------------|---------|
| Nominal voltage $U_N$ | 48 V AC |
|                       | 60 V DC |
| Nominal current $I_N$ | 2 A     |
| Transmission medium   | Copper  |
| Transmission speed    | 1 Gbps  |

### Connector

#### Connection 1

|                             |  |
|-----------------------------|--|
| Dimensional drawing         |  <p>Pin assignment M12 socket, 8-pos., A-coded, view female side</p> |
| Type                        | M12 Socket, angled, 8-position, shielded (Advanced Shielding Technology), Keying: A  |
| Number of positions         | 8  |
| Shielded                    | yes  |
| Shielding                   | Advanced Shielding Technology  |
| Signal type/category        | Ethernet CAT5, 1 bps   |
| Insertion/withdrawal cycles | ≥ 100  |
| Insulation resistance       | ≥ 100 Ω  |
| Overvoltage category        | II   |
| Degree of pollution         | 3  |
| Tightening torque           | 0.4 Nm (M12 connector)   |
| Material Contact            | CuZn   |

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|  |   |
|--|---|
| Material Contact surface               | Ni/Au                                       |
| Material Contact carrier               | PA 6.6                                      |
| Material Screw connection              | Die-cast zinc, nickel-plated                |
| Material Grip body                     | TPU, hardly inflammable, self-extinguishing |
| Material Seal                          | FKM   |
| Flammability rating according to UL 94 | V0  |
| Ambient temperature (operation)        | -25 °C ... 85 °C                            |
| Standard designation                   | M12 connector                               |
| Standards/regulations                  | IEC 61076-2-101                             |


## Connection 2

|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 2 m |
|--------------|-----|

## Ethernet flexible CAT5, 4-pair [94B]

|                                |  |
|--------------------------------|--|
| Dimensional drawing            |  |
| UL AWM Style                   | 21238 (80 °C / 600 V)  |
| Number of positions            | 8  |
| Shielded                       | yes  |
| Cable type                     | Ethernet flexible CAT5, 4-pair [94B]   |
| Conductor structure            | 4x2xAWG26/7, SF/UTP  |
| AWG signal line                | 26   |
| Conductor cross-section        | 4x 2x 0.14 mm <sup>2</sup>   |
| Wire diameter incl. insulation | 0.96 mm ±0.05 mm   |
| External cable diameter        | 6.40 mm ±0.2 mm  |
| Outer sheath, material         | PUR  |
| External sheath, color         | water blue RAL 5021  |
| Conductor material             | Bare Cu litz wires   |
| Material wire insulation       | Foamed 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        | 70 %   |
| Insulation resistance          | ≥ 500 MΩ*km  |
| Loop resistance                | ≤ 290.00 Ω/km  |

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|   |   |
|---|---|
| Wave impedance                                | 100 $\Omega$ $\pm$ 5 $\Omega$ (at 100 MHz)      |
| Nominal voltage, cable                        | $\leq$ 100 V                                    |
| Test voltage Core/Core                        | 2000 V (50 Hz, 1 min.)                          |
| Test voltage Core/Shield                      | 2000.00 V (50 Hz, 1 min.)                       |
| Minimum bending radius, fixed installation    | 4 x D   |
| Minimum bending radius, flexible installation | 8 x D   |
| Smallest bending radius, fixed installation   | 26 mm   |
| Smallest bending radius, movable installation | 51 mm   |
| Halogen-free                                  | according to IEC 60754-1                        |
| Flame resistance                              | according to IEC 60332-1-2                      |
|   | according to CSA C 22.2 No. 210-FT1             |
| Resistance to oil                             | in accordance with EN 60811-2-1                 |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)    |
|   | -20 °C ... 80 °C (Cable, flexible installation) |

Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Schematic diagram



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

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Circuit diagram



Contact assignment of the M12 socket

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1407440>

|  <b>cUL Recognized</b><br>Approval ID: FILE E 335024 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 30 V                  | 1.5 A                 | -                 | -                           |

|  <b>UL Recognized</b><br>Approval ID: FILE E 335024 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 30 V                  | 1.5 A                 | -                 | -                           |

|  <b>EAC-RoHS</b><br>Approval ID: RU D-DE.HB35.B.00387 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

### 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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 2.104 kg CO2e |
|---------|---------------|

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)