

# NBC-M 8MS/ 5,0-93B/M 8MS - Network cable



1407350

<https://www.phoenixcontact.com/us/products/1407350>

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Network cable, Ethernet (100 Mbps), PROFINET (100 Mbps), EtherCAT® (100 Mbps), 4-position, PVC/PVC, green RAL 6018, shielded, Plug straight M8, coding: A / IP67, on Plug straight M8, coding: A / IP67, cable length: 5 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1407350       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF02          |
| Product key                          | AF1BJI        |
| GTIN                                 | 4046356774789 |
| Weight per piece (including packing) | 337.2 g       |
| Weight per piece (excluding packing) | 337.2 g       |
| Customs tariff number                | 85444290      |
| 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  | 4                       |
| No. of cable outlets | 1                       |
| Shielded             | yes                     |
| Coding               | A                       |

### Interfaces

|                      |                     |
|----------------------|---------------------|
| Bus system           | Ethernet            |
| Signal type/category | Ethernet, 100 Mbps  |
|                      | PROFINET, 100 Mbps  |
|                      | EtherCAT®, 100 Mbps |

### Signaling

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

### Electrical properties

|                       |          |
|-----------------------|----------|
| Nominal voltage $U_N$ | 30 V AC  |
|                       | 30 V DC  |
| Nominal current $I_N$ | 4 A      |
| Transmission medium   | Copper   |
| Transmission speed    | 100 Mbps |

### Connector

#### Connection 1

|                             |                                                         |
|-----------------------------|---------------------------------------------------------|
| Type                        | Plug straight M8 / IP67                                 |
| Number of positions         | 4                                                       |
| Coding type                 | A (Standard)                                            |
| Handle color                | black                                                   |
| Material                    | CuSn (Contact)                                          |
|                             | Ni/Au (Contact surface)                                 |
|                             | TPU GF (Contact carrier)                                |
|                             | TPU, hardly inflammable, self-extinguishing (Grip body) |
|                             | Zinc die-cast, nickel-plated (Screw connection)         |
| Insertion/withdrawal cycles | ≥ 100                                                   |

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|                                 |                  |
|---------------------------------|------------------|
| Insulation resistance           | ≥ 100 MΩ         |
| Tightening torque               | 0.2 Nm           |
| Degree of protection            | IP67             |
| Ambient temperature (operation) | -25 °C ... 90 °C |

## Connection 2

|                                 |                                                                                                                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                            | Plug straight M8 / IP67                                                                                                                                                             |
| Number of positions             | 4                                                                                                                                                                                   |
| Coding type                     | A (Standard)                                                                                                                                                                        |
| Handle color                    | black                                                                                                                                                                               |
| Material                        | CuSn (Contact)<br>Ni/Au (Contact surface)<br>TPU GF (Contact carrier)<br>TPU, hardly inflammable, self-extinguishing (Grip body)<br>Zinc die-cast, nickel-plated (Screw connection) |
| Insertion/withdrawal cycles     | ≥ 100                                                                                                                                                                               |
| Insulation resistance           | ≥ 100 MΩ                                                                                                                                                                            |
| Tightening torque               | 0.2 Nm                                                                                                                                                                              |
| Degree of protection            | IP67                                                                                                                                                                                |
| Ambient temperature (operation) | -25 °C ... 90 °C                                                                                                                                                                    |

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

## PROFINET PVC stranded CAT5 [93B]

|                                |                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing            |  |
| UL AWM Style                   | 21695 (80 °C / 600 V)                                                                |
| Number of positions            | 4                                                                                    |
| Shielded                       | yes                                                                                  |
| Cable type                     | PROFINET PVC stranded CAT5 [93B]                                                     |
| Conductor structure            | 1x4xAWG22/7, SF/TQ                                                                   |
| AWG signal line                | 22                                                                                   |
| Conductor cross section        | 4x 0.34 mm²                                                                          |
| Wire diameter incl. insulation | 1.5 mm ±0.1 mm                                                                       |
| External cable diameter        | 6.50 mm ±0.2 mm                                                                      |
| Outer sheath, material         | PVC                                                                                  |
| External sheath, color         | green RAL 6018                                                                       |
| Conductor material             | Tin-plated Cu litz wires                                                             |

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|                                               |                                                          |
|-----------------------------------------------|----------------------------------------------------------|
| Material wire insulation                      | PE                                                       |
| Single wire, color                            | white, yellow, blue, orange                              |
| Overall twist                                 | Star quad                                                |
| Optical shield covering                       | 85 %                                                     |
| Insulation resistance                         | $\geq 5 \text{ G}\Omega \cdot \text{km}$                 |
| Loop resistance                               | $\leq 120.00 \text{ }\Omega/\text{km}$                   |
| Wave impedance                                | $100 \text{ }\Omega \pm 5 \text{ }\Omega$ (at 100 MHz)   |
| Nominal voltage, cable                        | $\leq 600 \text{ V}$                                     |
| 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                                                    |
| Flame resistance                              | UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1)     |
|                                               | UL 1685 (CSA FT 4)                                       |
|                                               | UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2) |
| Resistance to oil                             | OIL RES I according to UL 2256                           |
| Other resistance                              | UV resistant (according to UL 1581, Section 1200)        |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)             |
|                                               | -10 °C ... 70 °C (Cable, flexible installation)          |

## Environmental and real-life conditions

### Ambient conditions

|                                                                   |                                  |
|-------------------------------------------------------------------|----------------------------------|
| Degree of protection                                              | IP65                             |
|                                                                   | IP67                             |
|                                                                   | IP65/IP67                        |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 90 °C (Plug / socket) |

## Standards and regulations

### M8

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M8 connector    |
| Standards/specifications | IEC 61076-2-104 |

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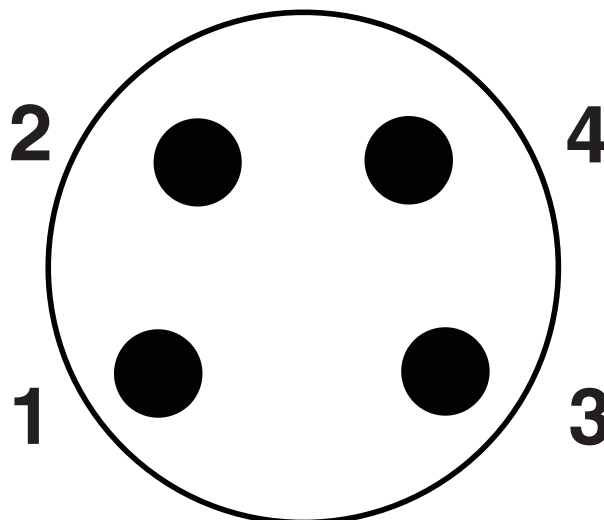
## Drawings

Dimensional drawing



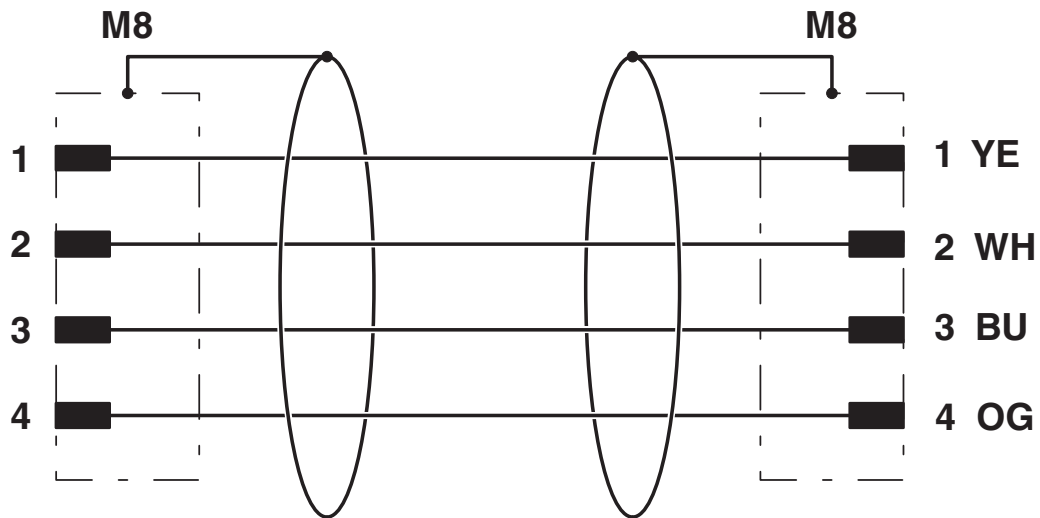
M8 x 1 male plug, straight version

Schematic diagram



Pin assignment M8 plug, 4-pos., view male side

Circuit diagram



Contact assignment of M8 plugs

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1407350>



**EAC-RoHS**

Approval ID: RU D-DE.HB35.B.00387

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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%               |
| EF3.0 Climate Change                    |                                          |
| CO2e kg                                 | 2.882 kg CO2e                            |

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