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## Network cable - NBC-R4MC/5,0-94B/R4MC - 1408954

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Assembled Ethernet cable, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (sea blue), RJ45 connector/ IP67, gray to RJ45 connector/IP67, gray, line, length 5 m



### Key commercial data

|                      |          |
|----------------------|----------|
| Packing unit         | 1 pc     |
| Custom tariff number | 85444210 |
| Country of origin    | Poland   |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 5 m |
|-----------------|-----|

#### Ambient conditions

|                      |                       |
|----------------------|-----------------------|
| Degree of protection | IP67 (RJ45 connector) |
|----------------------|-----------------------|

#### General data

|                       |                                          |
|-----------------------|------------------------------------------|
| Rated current at 40°C | 1 A                                      |
| Rated voltage         | 50 V                                     |
| Number of positions   | 8                                        |
| Signal type/category  | Ethernet CAT5 (IEC 11801:2002), 0.1 Gbps |
|                       | Ethernet CAT5e (TIA 568B:2001), 0.1 Gbps |
| Pollution degree      | 2                                        |

#### Characteristics head 1

|                                          |                                        |
|------------------------------------------|----------------------------------------|
| Head type                                | Plug Straight RJ45 Clip locking / IP67 |
| No. of positions (pin connector pattern) | 8 (8)                                  |
| Color                                    | Gray                                   |
| Material (component)                     | CuSn (Contact)                         |

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## Network cable - NBC-R4MC/5,0-94B/R4MC - 1408954

### Technical data

#### Characteristics head 1

|                                 |                         |
|---------------------------------|-------------------------|
|                                 | Ni/Au (Contact surface) |
|                                 | PC (Contact carriers)   |
|                                 | PA (Housing)            |
| Insertion/withdrawal cycles     | ≥ 750                   |
| Ambient temperature (operation) | -20 °C ... 70 °C        |

#### Characteristics head 2

|                                          |                                        |
|------------------------------------------|----------------------------------------|
| Head type                                | Plug Straight RJ45 Clip locking / IP67 |
| No. of positions (pin connector pattern) | 8 (8)                                  |
| Color                                    | Gray                                   |
| Material (component)                     | CuSn (Contact)                         |
|                                          | Ni/Au (Contact surface)                |
|                                          | PC (Contact carriers)                  |
|                                          | PA (Housing)                           |
| Insertion/withdrawal cycles              | ≥ 750                                  |
| Ambient temperature (operation)          | -20 °C ... 70 °C                       |

#### Cable

|                                             |                                                                            |
|---------------------------------------------|----------------------------------------------------------------------------|
| Cable type                                  | Ethernet, flexible, CAT5e                                                  |
| Cable type (abbreviation)                   | 94B                                                                        |
| UL AWM style                                | 20963 (80°C/30 V)                                                          |
| Signal type/category                        | Ethernet CAT5 (IEC 11801:2002), 0.1 Gbps                                   |
|                                             | Ethernet CAT5e (TIA 568B:2001), 0.1 Gbps                                   |
| Cable structure                             | 4x2xAWG26/7; SF/UTP                                                        |
| Conductor cross section                     | 4x 2x 0.14 mm <sup>2</sup>                                                 |
| AWG signal line                             | 26                                                                         |
| Conductor structure signal line             | 7x 0.16 mm                                                                 |
| Core diameter including insulation          | 0.98 mm                                                                    |
| Thickness, insulation                       | 0.25 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                                                                    |
| Shielding                                   | Aluminum-coated foil, tinned copper braided shield                         |
| Optical shield covering                     | 70 %                                                                       |
| External sheath, color                      | water blue RAL 5021                                                        |
| Outer sheath thickness                      | 1 mm                                                                       |
| External cable diameter D                   | 6.4 mm ±0.2 mm                                                             |
| Smallest bending radius, fixed installation | 25.6 mm                                                                    |

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### Technical data

#### Cable

|                                               |                                                 |
|-----------------------------------------------|-------------------------------------------------|
| Smallest bending radius, movable installation | 51.2 mm                                         |
| Tensile strength short-term/long-term         | ≤ 100 N                                         |
| Cable weight                                  | 47 kg/km                                        |
| Outer sheath, material                        | PUR                                             |
| Material conductor insulation                 | PE                                              |
| Conductor material                            | Bare Cu litz wires                              |
| Insulation resistance                         | ≥ 500 MΩ*km                                     |
| Loop resistance                               | ≤ 290 Ω (per kilometer)                         |
| Working capacitance                           | 48 nF (At 1 kHz)                                |
| Wave impedance                                | 100 Ω ±5 Ω (at 100 MHz)                         |
| Signal runtime                                | 5.3 ns/m                                        |
| Coupling resistance                           | ≤ 100.00 mΩ/m (At 10 MHz)                       |
| Nominal voltage, cable                        | ≤ 100 V                                         |
|                                               | 300 V (Outer cable sheath)                      |
| Test voltage Core/Core                        | 700 V (50 Hz, 1 min.)                           |
| Test voltage Core/Shield                      | 700 V (50 Hz, 1 min.)                           |
| Flame resistance                              | IEC 60332-1-2                                   |
| Halogen-free                                  | According to IEC 60754-1                        |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1             |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)    |
|                                               | -20 °C ... 80 °C (cable, flexible installation) |
| Ambient temperature (installation)            | -20 °C ... 80 °C                                |
| Ambient temperature (storage/transport)       | -20 °C ... 80 °C                                |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27060307 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27061801 |
| eCl@ss 8.0 | 27061801 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000830 |
|----------|----------|

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### Classifications

#### ETIM

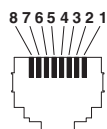
|          |          |
|----------|----------|
| ETIM 4.0 | EC002599 |
| ETIM 5.0 | EC002599 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 26121616 |
| UNSPSC 7.0901 | 26121616 |
| UNSPSC 11     | 26121604 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 26121616 |

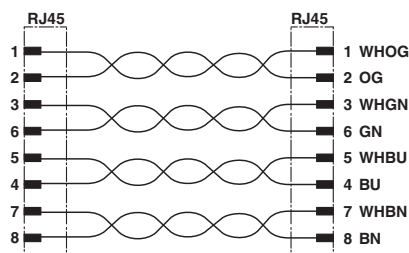
### Drawings

Schematic diagram



Connector pin assignment plug RJ45

Circuit diagram



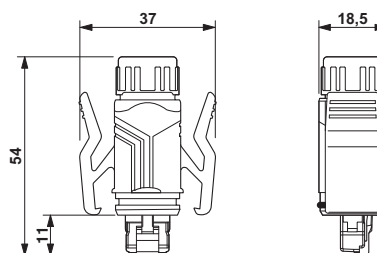
Contact assignment of RJ45 plugs

Cable cross section



Ethernet, flexible, CAT5e [94B]

Dimensioned drawing



RJ45-connector, IP67