

## Network cable - NBC-R4RC/5,0-94B/R4RC - 1408959

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Assembled Ethernet cable, shielded, 4-pair, AWG 26 stranded (7-wire), RAL 5021 (sea blue), RJ45 connector/ IP67 push/pull metal housing to RJ45 connector/IP67 push/pull metal housing, 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 |
| Standards/regulations | IEC PAS 61076-3-117                      |
| Pollution degree      | 2                                        |

#### Characteristics head 1

|                                          |                                     |
|------------------------------------------|-------------------------------------|
| Head type                                | Plug Straight RJ45 Push Pull / IP67 |
| No. of positions (pin connector pattern) | 8 (8)                               |
| Color                                    | silver                              |

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### Technical data

#### Characteristics head 1

|                                 |                                        |
|---------------------------------|----------------------------------------|
| Material (component)            | CuSn (Contact)                         |
|                                 | Ni/Au (Contact surface)                |
|                                 | PC (Contact carriers)                  |
|                                 | Zinc die-cast, nickel-plated (Housing) |
| Insertion/withdrawal cycles     | ≥ 750                                  |
| Ambient temperature (operation) | -40 °C ... 70 °C                       |

#### Characteristics head 2

|                                          |                                        |
|------------------------------------------|----------------------------------------|
| Head type                                | Plug Straight RJ45 Push Pull / IP67    |
| No. of positions (pin connector pattern) | 8 (8)                                  |
| Color                                    | silver                                 |
| Material (component)                     | CuSn (Contact)                         |
|                                          | Ni/Au (Contact surface)                |
|                                          | PC (Contact carriers)                  |
|                                          | Zinc die-cast, nickel-plated (Housing) |
| Insertion/withdrawal cycles              | ≥ 750                                  |
| Ambient temperature (operation)          | -40 °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                                                             |

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### Technical data

#### Cable

|                                               |                                                 |
|-----------------------------------------------|-------------------------------------------------|
| Smallest bending radius, fixed installation   | 25.6 mm                                         |
| 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 |

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Classifications

ETIM

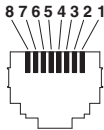
|          |          |
|----------|----------|
| ETIM 3.0 | EC000830 |
| ETIM 4.0 | EC002599 |
| ETIM 5.0 | EC002599 |

UNSPSC

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

Drawings

Schematic diagram



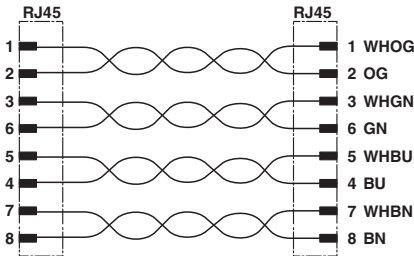
Connector pin assignment plug RJ45

Cable cross section



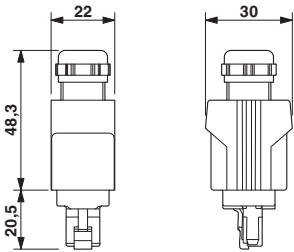
Ethernet, flexible, CAT5e [94B]

Circuit diagram



Contact assignment of RJ45 plugs

Dimensioned drawing



RJ45 Push-Pull connector, IP67

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