

## Network cable - NBC-R4AC/2,0-93E/R4AC - 1408934

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, 26\* AWG stranded (7-wire), RAL 5021 (water blue), RJ45 plug/IP20 to RJ45 plug/IP20, line, length: 2 m



### Key commercial data

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

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 2 m |
|-----------------|-----|

#### Ambient conditions

|                      |                       |
|----------------------|-----------------------|
| Degree of protection | IP20 (RJ45 connector) |
|----------------------|-----------------------|

#### General data

|                       |  |
|-----------------------|--|
| Rated current at 40°C | 1 A                                      |
| Rated voltage         | 50 V                                     |
| Number of positions   | 4  |
| Signal type/category  | Ethernet CAT5 (IEC 11801:2002), 100 Mbps |
|                       | Ethernet CAT5e (TIA 568B:2001), 100 Mbps |

#### Characteristics head 1

|  |                           |
|--|---------------------------|
| Head type                                | Plug Straight RJ45 / IP20 |
| No. of positions (pin connector pattern) | 4 (8)                     |
| Color                                    | Gray                      |
| Material (component)                     | CuSn (Contact)            |
|  | Ni/Au (Contact surface)   |

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### Technical data

#### Characteristics head 1

|                                 |                       |
|---------------------------------|-----------------------|
|                                 | PC (Contact carriers) |
|                                 | PA (Housing)          |
| Insertion/withdrawal cycles     | ≥ 750                 |
| Ambient temperature (operation) | -40 °C ... 60 °C      |

#### Characteristics head 2

|  |                           |
|--|---------------------------|
| Head type                                | Plug Straight RJ45 / IP20 |
| No. of positions (pin connector pattern) | 4 (8)                     |
| Color                                    | Gray                      |
| Material (component)                     | CuSn (Contact)            |
|  | Ni/Au (Contact surface)   |
|  | PC (Contact carriers)     |
|  | PA (Housing)              |
| Insertion/withdrawal cycles              | ≥ 750                     |
| Ambient temperature (operation)          | -40 °C ... 60 °C          |

#### Cable

|   |  |
|---|--|
| Cable type                                    | PUR ETHERNET 2x2 FLEX                              |
| Cable type (abbreviation)                     | 93E  |
| UL AWM style                                  | 20963 (80°C/30 V)                                  |
| Signal type/category                          | Ethernet CAT5 (IEC 11801:2002), 100 Mbps           |
|   | Ethernet CAT5e (TIA 568B:2001), 100 Mbps           |
| Cable structure                               | 2x2xAWG26/7; SF/UTP                                |
| Conductor cross section                       | 2x 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  |
| Wire colors                                   | white/orange-orange, white/green-green             |
| Twisted pairs                                 | 2 cores to the pair                                |
| Overall twist                                 | Two pairs with two fillers to the core             |
| Shielding                                     | Aluminum-coated foil, tinned copper braided shield |
| Optical shield covering                       | 70 %   |
| External sheath, color                        | water blue RAL 5021                                |
| External cable diameter D                     | 6.4 mm ±0.2 mm                                     |
| Minimum bending radius, fixed installation    | 4 x D  |
| Minimum bending radius, flexible installation | 8 x D  |
| Tensile strength short-term/long-term         | ≤ 80N  |
| Cable weight                                  | 42 kg/km   |

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### Technical data

#### Cable

|   |   |
|---|---|
| Outer sheath, material                  | PUR   |
| Material conductor insulation           | Foamed PE                                       |
| Conductor material                      | Bare Cu litz wires                              |
| Insulation resistance                   | ≥ 500 MΩ*km (at 20 °C)                          |
| Conductor resistance                    | ≤ 290000000 Ω/km (at 20 °C)                     |
| Working capacitance                     | 45 nF (At 1 kHz)                                |
| Wave impedance                          | 100 Ω ±5 Ω (at 100 MHz)                         |
| Signal runtime                          | 5.3 ns/m  |
| 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 | EC001262 |
| ETIM 4.0 | EC002599 |
| ETIM 5.0 | EC002599 |

#### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 6.01 | 26121616 |
|-------------|----------|

# Network cable - NBC-R4AC/2,0-93E/R4AC - 1408934

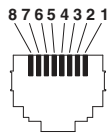
## Classifications

### UNSPSC

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

## Drawings

Schematic diagram



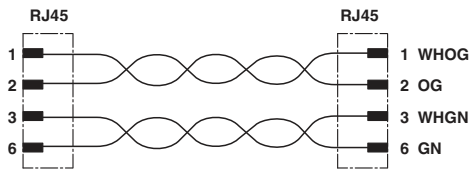
Connector pin assignment plug RJ45

Cable cross section



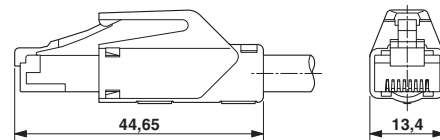
PUR ETHERNET 2x2 FLEX [93E]

Circuit diagram



Contact assignment of RJ45 plugs

Dimensioned drawing



RJ45 connector, IP20