

## Network cable - NBC-400,0-94B - 1410274

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Network cable, Ethernet, 8-wire, shielded, PUR, halogen-free, RAL 5021 (water blue), 26 AWG, 4 x 2 x 0.14 mm², cable length: 400 m

RoHS

**Ethernet**

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 046356 893572 |
| GTIN         | 4046356893572                                                                                           |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 400 m |
|-----------------|-------|

#### Ambient conditions

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)    |
|                                 | -20 °C ... 80 °C (cable, flexible installation) |

#### General data

|                      |                                |
|----------------------|--------------------------------|
| Rated voltage        | 30 V AC                        |
|                      | 30 V DC                        |
| Number of positions  | 8                              |
| Signal type/category | Ethernet CAT5 (IEC 11801:2002) |

#### Standards and Regulations

|                   |                                     |
|-------------------|-------------------------------------|
| Flame resistance  | IEC 60332-1-2                       |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Halogen-free      | according to IEC 60754-1            |

#### Cable

|                           |                          |
|---------------------------|--------------------------|
| Cable type                | Ethernet, flexible, CAT5 |
| Cable type (abbreviation) | 94B                      |

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## Technical data

### Cable

|                                                      |                                                                            |
|------------------------------------------------------|----------------------------------------------------------------------------|
| UL AWM style                                         | 20963 (80°C/30 V)                                                          |
| Signal type/category                                 | Ethernet CAT5 (IEC 11801), 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                   | 0.96 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 for core                                                           |
| Shielding                                            | Aluminum-coated foil, tinned copper braided shield                         |
| Optical shield covering                              | 70 %                                                                       |
| External sheath, color                               | water blue RAL 5021                                                        |
| Outer sheath thickness                               | 1.05 mm                                                                    |
| 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 GRP                                 | ≤ 100 N                                                                    |
| Cable weight                                         | 47 kg/km                                                                   |
| Outer sheath, material                               | PUR                                                                        |
| Material conductor insulation                        | Foamed PE                                                                  |
| Conductor material                                   | Bare Cu litz wires                                                         |
| Insulation resistance                                | ≥ 500 MΩ*km                                                                |
| Loop resistance                                      | ≤ 290.00 Ω/km                                                              |
| Cable capacity                                       | 48 nF/km (at 1 kHz)                                                        |
| Wave impedance                                       | 100 Ω ±5 Ω (at 100 MHz)                                                    |
| Near end crosstalk attenuation (NEXT)                | 71.3 dB (with 1 MHz)                                                       |
|                                                      | 62.3 dB (at 4 MHz)                                                         |
|                                                      | 56.3 dB (at 10 MHz)                                                        |
|                                                      | 53.2 dB (at 16 MHz)                                                        |
|                                                      | 51.8 dB (at 20 MHz)                                                        |
|                                                      | 48.9 dB (at 31.25 MHz)                                                     |
|                                                      | 44.4 dB (at 62.5 MHz)                                                      |
|                                                      | 41.3 dB (at 100 MHz)                                                       |
| Power-summed near end crosstalk attenuation (PSNEXT) | 62.3 dB (with 1 MHz)                                                       |
|                                                      | 53.3 dB (at 4 MHz)                                                         |
|                                                      | 47.3 dB (at 10 MHz)                                                        |
|                                                      | 44.2 dB (at 16 MHz)                                                        |
|                                                      | 42.8 dB (at 20 MHz)                                                        |
|                                                      | 39.9 dB (at 31.25 MHz)                                                     |

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### Technical data

#### Cable

|                                         |                                                 |
|-----------------------------------------|-------------------------------------------------|
|                                         | 35.4 dB (at 62.5 MHz)                           |
|                                         | 32.3 dB (at 100 MHz)                            |
| Attenuation                             | 3.2 dB (with 1 MHz)                             |
|                                         | 6 dB (at 4 MHz)                                 |
|                                         | 9.5 dB (at 10 MHz)                              |
|                                         | 12.1 dB (at 16 MHz)                             |
|                                         | 13.6 dB (at 20 MHz)                             |
|                                         | 17.1 dB (at 31.25 MHz)                          |
|                                         | 24.8 dB (at 62.5 MHz)                           |
|                                         | 32 dB (at 100 MHz)                              |
| Return loss (RL)                        | 23 dB (at 4 MHz)                                |
|                                         | 24.1 dB (at 8 MHz)                              |
|                                         | 25 dB (at 10 MHz)                               |
|                                         | 25 dB (at 16 MHz)                               |
|                                         | 25 dB (at 20 MHz)                               |
|                                         | 23.6 dB (at 31.25 MHz)                          |
|                                         | 21.5 dB (at 62.5 MHz)                           |
|                                         | 20.1 dB (at 100 MHz)                            |
| Signal runtime                          | 5.3 ns/m                                        |
| Coupling resistance                     | ≤ 100.00 mΩ/m (at 10 MHz)                       |
| Nominal voltage, cable                  | ≤ 100 V                                         |
| Test voltage Core/Core                  | 700 V (50 Hz, 1 min.)                           |
| Test voltage Core/Shield                | 700 V (50 Hz, 1 min.)                           |
| Flame resistance                        | according to IEC 60332-1-2                      |
| Halogen-free                            | according to IEC 60754-1                        |
| Resistance to oil                       | according to 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                                |

#### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

### Drawings

## Network cable - NBC-400,0-94B - 1410274

Cable cross section



Ethernet, flexible, CAT5 [94B]

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