

# NBC-R4AC/10,0-93E US - Network cable



1419761

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Assembled Ethernet cable, CAT5e, shielded, 2-pair, AWG 26 stranded (7-wire), RAL 5021 (water blue), RJ45 plug/IP20 on free conductor end, line, length 1 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1419761                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF15                           |
| Product key                          | AF1IHA                         |
| GTIN                                 | 4055626218533                  |
| Weight per piece (including packing) | 22.22 g                        |
| Weight per piece (excluding packing) | 22.22 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | US                             |

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## Technical data

### Product properties

|                      |                         |
|----------------------|-------------------------|
| Product type         | Data cable preassembled |
| Number of positions  | 4                       |
| No. of cable outlets | 1                       |
| Number of slots      | 1                       |
| Shielded             | yes                     |

### Interfaces

|                      |  |
|----------------------|--|
| Signal type/category | Ethernet CAT5 (IEC 11801:2002), 100 Mbps |
|----------------------|--|

### Electrical properties

|   |                       |
|---|-----------------------|
| Nominal voltage $U_N$                   | 48 V AC               |
|   | 60 V DC               |
| Transmission medium                     | Copper                |
| Transmission speed                      | 100 Mbps              |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 750$ |
|-----------------------------|------------|


### Material specifications

|  |    |
|--|----|
| Flammability rating according to UL 94 | V2 |
|--|----|

### Cable/line

|              |      |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

#### Ethernet flexible CAT5, 2-pair [93E]

|                              |  |
|------------------------------|--|
| Dimensional drawing          |  |
| Cable weight                 | 42 kg/km   |
| UL AWM Style                 | 20963 (80°C/30 V)  |
| Wiring standards/regulations | Electrical requirements EN 50288-2-2   |
| Number of positions          | 4  |
| Shielded                     | yes  |
| Cable type                   | Ethernet flexible CAT5, 2-pair [93E]   |

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|  |   |
|--|---|
| Conductor structure                                    | 2x2xAWG26/7, SF/UTP                                   |
| Signal runtime   | 5.3 ns/m  |
| Conductor structure signal line                        | 7x 0.16 mm  |
| AWG signal line  | 26  |
| Conductor cross-section                                | 2x 2x 0.14 mm <sup>2</sup>                            |
| Wire diameter incl. insulation                         | 0.98 mm   |
| External cable diameter                                | 6.40 mm ±0.2 mm                                       |
| Outer sheath, material                                 | PUR   |
| External sheath, color                                 | water blue RAL 5021                                   |
| Conductor material                                     | Bare Cu litz wires                                    |
| Material wire insulation                               | Foamed PE   |
| Single wire, color                                     | white/orange-orange, white/green-green                |
| Thickness, outer sheath                                | 1.20 mm   |
| Twisted pairs  | 2 cores to the pair                                   |
| Overall twist  | Two pairs with two fillers to the core                |
| Optical shield covering                                | 70 %  |
| Insulation resistance                                  | ≥ 500 MΩ*km   |
| Coupling resistance                                    | ≤ 100.00 mΩ/m (at 10 MHz)                             |
| Loop resistance  | ≤ 290.00 Ω/km   |
| Wave impedance   | 100 Ω ±5 Ω (at 100 MHz)                               |
| Cable capacity   | approx. 45 nF/km (at 1 kHz)                           |
| Nominal voltage, cable                                 | ≤ 100 V (Peak value, not for high-power applications) |
| Test voltage Core/Core                                 | 700 V (50 Hz, 1 min.)                                 |
| Test voltage Core/Shield                               | 700.00 V (50 Hz, 1 min.)                              |
| Current carrying capacity of cable                     | 2.00 A (according to DIN VDE 0891-1)                  |
| Minimum bending radius, fixed installation             | 4 x D   |
| Minimum bending radius, flexible installation          | 8 x D   |
| Smallest bending radius, fixed installation            | 26 mm   |
| Smallest bending radius, movable installation          | 52 mm   |
| Tensile strength                                       | ≤ 80 N  |
| Near end crosstalk attenuation (NEXT)                  | 65.3 dB (with 1 MHz)                                  |
|  | 56.3 dB (at 4 MHz)                                    |
|  | 50.3 dB (at 10 MHz)                                   |
|  | 47.2 dB (at 16 MHz)                                   |
|  | 45.8 dB (at 20 MHz)                                   |
|  | 42.9 dB (at 31.25 MHz)                                |
|  | 38.4 dB (at 62.5 MHz)                                 |
| Power-summated near end crosstalk attenuation (PSNEXT) | 35.3 dB (at 100 MHz)                                  |
|  | 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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|                                    |   |
|------------------------------------|---|
|                                    | 35.4 dB (at 62.5 MHz)                           |
|                                    | 32.3 dB (at 100 MHz)                            |
| Return attenuation (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)                            |
|                                    | Shield attenuation                              |
| 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)                 |   |
| Halogen-free                       | according to IEC 60754-1                        |
| Flame resistance                   | according to IEC 60332-1-2                      |
|                                    | in acc. to UL VW1                               |
|                                    | in accordance with UN ECE-R 118.03              |
| Resistance to oil                  | in accordance with 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                                |

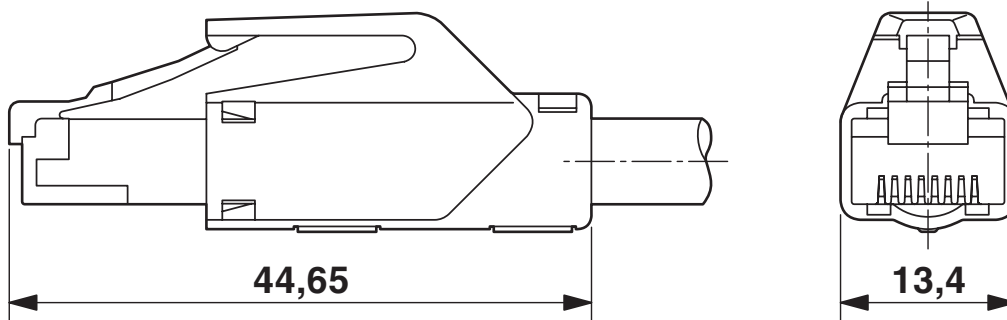
## Environmental and real-life conditions

### Ambient conditions

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

Drawings

Dimensional drawing



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27061801 |
| ECLASS-15.0 | 27061801 |

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## Environmental product compliance

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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