

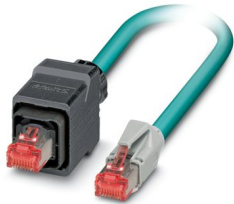
NBC-R4AC/2,0-94B/R4QC - Network cable



1414562

<https://www.phoenixcontact.com/us/products/1414562>

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Network cable, degree of protection: IP67/IP20, number of positions: 8, 1 Gbps, CAT5, cable outlet: straight, Ethernet

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1414562 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | ABNABE |
| GTIN | 4055626058177 |
| Weight per piece (including packing) | 138.1 g |
| Weight per piece (excluding packing) | 106.04 g |
| Country of origin | PL |

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Technical data

Product properties

| | |
|----------------------|-------------------------|
| Product type | Data cable preassembled |
| Number of positions | 8 |
| No. of cable outlets | 1 |
| Number of slots | 1 |
| Shielded | yes |
| Cable outlet | straight |

Insulation characteristics

| | |
|---------------------|---|
| Degree of pollution | 2 |
|---------------------|---|

Interfaces

| | |
|----------------------|-----------------------|
| Signal type/category | Ethernet CAT5, 1 Gbps |
|----------------------|-----------------------|

Electrical properties

| | |
|-----------------------|--------------|
| Rated voltage (III/3) | 72 V (DC) |
| Transmission medium | Copper |
| Transmission speed | 1 Gbps |
| Wave impedance | 100 Ω |

Mechanical properties

Mechanical data

| | |
|-----------------------------|------------|
| Insertion/withdrawal cycles | ≥ 200 |
|-----------------------------|------------|

Material specifications

| | |
|--|--------------------|
| Flammability rating according to UL 94 | V2 |
| Outer sheath, material | PUR |
| Conductor material | Bare Cu litz wires |

Connector

Connection 1

| | |
|----------------------|--------------------|
| Type | Plug straight RJ45 |
| Locking type | Push Pull |
| Degree of protection | IP67 |

Connection 2

| | |
|----------------------|--------------------|
| Type | Plug straight RJ45 |
| Degree of protection | IP20 |

Cable/line


Ethernet flexible CAT5, 4-pair [94B]

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| | |
|---|--|
| Dimensional drawing |  |
| Shielded | yes |
| UL AWM Style | 20963 (80°C/30 V) |
| Cable weight | 47 kg/km |
| Cable type | Ethernet flexible CAT5, 4-pair |
| Cable type (abbreviation) | 94B |
| Signal type/category | Ethernet CAT5 (IEC 11801), 1 Gbps |
| Cable structure | 4x2xAWG26/7, SF/UTP |
| External cable diameter | 6.40 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |
| Thickness, outer sheath | 1.05 mm |
| Conductor material | Bare Cu litz wires |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross-section | 4x 2x 0.14 mm ² |
| Material wire insulation | Foamed PE |
| Wire diameter incl. insulation | 0.96 mm |
| Single wire, color | 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 % |
| Nominal voltage, cable | ≤ 100 V |
| Test voltage Core/Core | 700 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 700.00 V (50 Hz, 1 min.) |
| Cable insulation resistance | ≥ 5 GΩ*km |
| Coupling resistance | ≤ 100.00 mΩ/m (at 10 MHz) |
| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
| Loop resistance | ≤ 290.00 Ω/km |
| Cable capacity | 48 nF/km (at 1 kHz) |
| Signal runtime | 5.3 ns/m |
| Tensile strength | ≤ 100 N |
| Minimum bending radius, fixed installation | 4 x D |
| Minimum bending radius, flexible installation | 8 x D |
| | 71.3 dB (with 1 MHz) |

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| | |
|--|---|
| Near end crosstalk attenuation (NEXT) | 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-summated 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) |
| | 35.4 dB (at 62.5 MHz) |
| Return attenuation (RL) | 32.3 dB (at 100 MHz) |
| | 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) |
| Halogen-free | 21.5 dB (at 62.5 MHz) |
| | 20.1 dB (at 100 MHz) |
| Resistance to oil | according to IEC 60754-1 |
| Flame resistance | in accordance with EN 60811-2-1 |
| Ambient temperature (operation) | according to IEC 60332-1-2 |
| | -20 °C ... 80 °C (Cable, flexible installation) |
| | -40 °C ... 80 °C (cable, fixed installation) |

Environmental and real-life conditions

Ambient conditions

| | |
|----------------------|-----------|
| Degree of protection | IP67/IP20 |
|----------------------|-----------|

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Drawings

Dimensional drawing



Push-pull RJ45 connector IP65/67

Dimensional drawing



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Circuit diagram



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

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

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