

NBC-R4AC/1,75-94Z/R4AC - Network cable



1423433

<https://www.phoenixcontact.com/us/products/1423433>

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Assembled Ethernet cable, shielded, 4-pair, 26 AWG stranded (7-wire), RAL 5021 (water blue), RJ45 connector/IP20 to RJ45 connector/IP20, line, length: 1.75 m

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1423433 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB11 |
| Product key | ABNABM |
| GTIN | 4055626343198 |
| Weight per piece (including packing) | 106.5 g |
| Weight per piece (excluding packing) | 106.5 g |
| Customs tariff number | 85444210 |
| Country of origin | CN |

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Technical data

Product properties

| | |
|----------------------|-------------------------|
| Product type | Data cable preassembled |
| Product family | RJ45 BASIC IE8 CAT5 |
| Number of positions | 8 |
| No. of cable outlets | 1 |
| Cable outlet | straight |

Insulation characteristics

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

Interfaces

| | |
|----------------------|--|
| Signal type/category | Ethernet CAT5 (IEC 11801:2002), 1 Gbps |
|----------------------|--|

Electrical properties

| | |
|---|-----------------------|
| Rated voltage (III/3) | 72 V (DC) |
| Transmission medium | Copper |
| Transmission speed | 1 Gbps |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |

Mechanical properties

Mechanical data

| | |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 750 |
|-----------------------------|-------|

Material specifications

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

Connector

Connection 1

| | |
|-----------------------------|-------------------------|
| Type | Plug straight RJ45 |
| Handle color | gray |
| Material | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | PC (Contact carrier) |
| | PA (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Degree of protection | IP20 |

Connection 2

| | |
|--------------|-------------------------|
| Type | Plug straight RJ45 |
| Handle color | gray |
| Material | CuSn (Contact) |
| | Ni/Au (Contact surface) |

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| | |
|-----------------------------|----------------------|
| | PC (Contact carrier) |
| | PA (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Degree of protection | IP20 |

Cable/line

| | |
|--------------|--------|
| Cable length | 1.75 m |
|--------------|--------|

Ethernet flexible CAT5, 4-pair, SF/UTP [94Z]

| | |
|---|--|
| Number of positions | 8 |
| Shielded | yes |
| Cable type | Ethernet flexible CAT5, 4-pair, SF/UTP [94Z] |
| Conductor structure | 4x2xAWG26/7, SF/UTP |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Conductor cross-section | 4x 2x 0.14 mm ² |
| Wire diameter incl. insulation | 0.92 mm |
| External cable diameter | 6.20 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PE |
| Single wire, color | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| Thickness, insulation | 0.19 mm (Signal line) |
| Twisted pairs | 2 cores to the pair |
| Overall twist | 4 pairs |
| Optical shield covering | 85 % |
| Max. conductor resistance | ≤ 290 Ω/km (at 20 °C) |
| Insulation resistance | ≥ 500 MΩ*km (at 20 °C) |
| Wave impedance | 100 Ω ±15 Ω (at 100 MHz) |
| Test voltage Core/Core | 700 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 700.00 V (50 Hz, 1 min.) |
| Smallest bending radius, fixed installation | 51.2 mm |
| Smallest bending radius, movable installation | 51.2 mm |
| Halogen-free | according to IEC 60754-1 |
| Flame resistance | IEC 60332-1-2 |
| Resistance to oil | in accordance with DIN EN 60811-2-1 |
| Ambient temperature (operation) | -20 °C ... 80 °C |
| | -20 °C ... 80 °C |
| | -20 °C ... 80 °C |
| Ambient temperature (installation) | -20 °C ... 80 °C |

Environmental and real-life conditions

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Ambient conditions

| | |
|---------------------------------|-----------------------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -20 °C ... 70 °C (RJ45 connector) |

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Drawings

Schematic diagram



Connector pin assignment plug RJ45

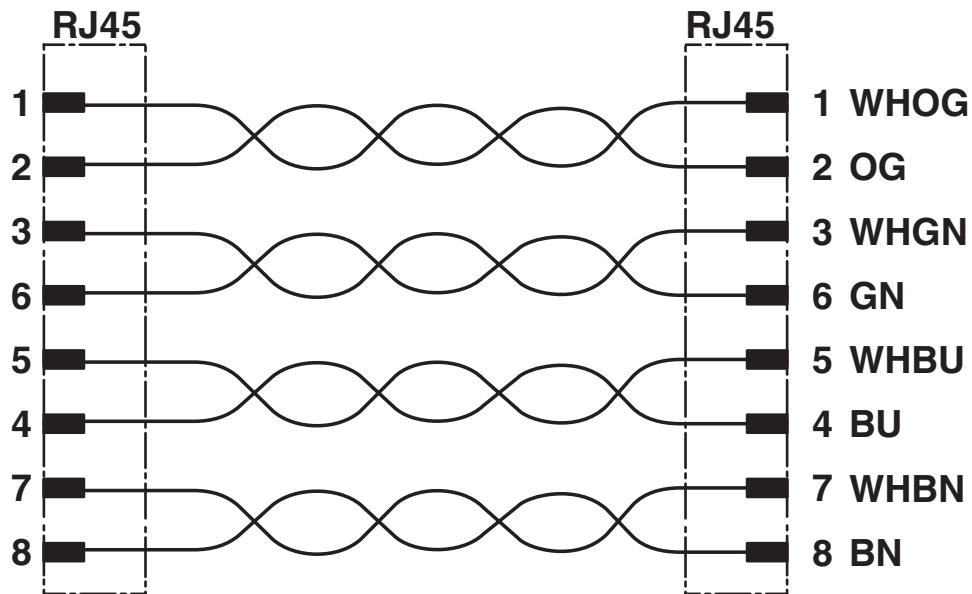
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Circuit diagram



Contact assignment of RJ45 plugs

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Approvals

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EAC

Approval ID: 19060508

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Classifications

ECLASS

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

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 2.489 kg CO2e |
|---------|---------------|

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com