# NBC-R4ACS/3,0-94C/OE - Patch cable

1113210

https://www.phoenixcontact.com/us/products/1113210

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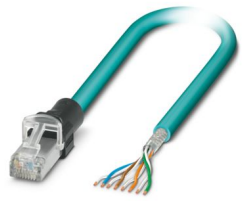

Patch cable, Ethernet CAT5 (1 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, Plug straight RJ45 / IP20, on free cable end, cable length: 3 m

## Your advantages

- Perfect for industrial applications
- PUR cable for moving applications (bend)
- Worldwide approval with CE, UL, WEEE, and EAC
- Secure connection and disconnection with reliable locking clip protection
- Ideal EMC properties, thanks to 360° shielding
- Simultaneous power transmission with PoE++
- High-speed data transmission with up to 1 Gbps (CAT5)
- Resistant to shock and vibrations, thanks to robust molding

ELEKTROGERÄTE RÜCKNAHME

## Commercial data

| | |
|---|---|
| Item number | 1113210 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB11 |
| Product key | ABNABE |
| GTIN | 4063151034092 |
| Weight per piece (including packing) | 192.2 g |
| Weight per piece (excluding packing) | 176.707 g |
| Customs tariff number | 85444210 |

| | |
|---|---|
| Country of origin | PL |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Data cable preassembled |
| Product family | RJ45 INDUSTRIAL IE8 CAT5 |
| Number of positions | 8 |
| Shielded | yes |

### Interfaces

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

### Electrical properties

| | |
|---|---|
| Rated voltage (III/2) | 72 V |
| Rated current | 1.5 A |
| Insulation resistance | > 1 TΩ |
| Transmission speed | 1 Gbps |
| Transmission characteristics (category) | CAT5 |

### Material specifications

| | |
|---|---|
| Outer sheath, material | PUR |
| Conductor material | Copper, bare |

### Dimensions

| | |
|---|---|
| Width | 14 mm |
| Height | 14.8 mm |
| Length | 44.2 mm |

### Connector

Connection 1

| | |
|---|---|
| Type | RJ45, straight |

Connection 2

| | |
|---|---|
| Type | free cable end |

### Cable/line

| | |
|---|---|
| Cable length | 3 m |

Ethernet drag chain CAT5, 4-pair [94C]

| | |
|---|---|
| Dimensional drawing |  |
| Cable weight | 57 kg/km |
| UL AWM Style | 20963 (80°C/30 V) |
| Number of positions | 8 |
| Shielded | yes |
| Cable type | Ethernet drag chain CAT5, 4-pair [94C] |
| Conductor structure | 4x2xAWG26/19, S/UTP |
| Signal runtime | 5.3 ns/m |
| Conductor structure signal line | 19x 0.10 mm |
| AWG signal line | 26 |
| Conductor cross-section | 4x 2x 0.14 mm² |
| Wire diameter incl. insulation | 1 mm |
| External cable diameter | 6.90 mm +0.1 mm ... 0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PP |
| Single wire, color | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| Thickness, outer sheath | 0.85 mm |
| Twisted pairs | 2 cores to the pair |
| Overall twist | Four pairs and four fillers to the core |
| Optical shield covering | 90 % |
| 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. 50 nF/km (at 1 kHz) |
| 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.) |
| Minimum bending radius, fixed installation | 4 x D |
| Minimum bending radius, flexible installation | 8 x D |
| Smallest bending radius, fixed installation | 28 mm |
| Smallest bending radius, movable installation | 56 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 5000000, Bending radius: 7,5 x D, Traversing rate: 3 m/s, Acceleration: 5 m/s² |

| | |
|---|---|
| Tensile strength | ≤ 100 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) |
| | 35.3 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) |
| | 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 | 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) |
| Halogen-free | according to IEC 60754-1 |
| Flame resistance | according to IEC 60332-1-2 |
| 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

| | |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 85 °C (RJ45 connector) |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1113210

**cUL Recognized**
Approval ID: E335024-V2S6

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 57 V | 1.75 A | - | - |

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|---|---|---|---|---|
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## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002599 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## 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 | 9.185 kg CO2e |


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