

NBC-R4AC/1,0-93M/R4AC - Patch cable



1420373

<https://www.phoenixcontact.com/us/products/1420373>

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Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

Your advantages

- Perfect for industrial applications
- Perfect for office, building, and protected industrial applications (e.g., in control cabinets)
- Compact angle

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1420373 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | ABNABA |
| GTIN | 4055626206417 |
| Weight per piece (including packing) | 93 g |
| Weight per piece (excluding packing) | 74.011 g |
| Country of origin | PL |

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Technical data

Product properties

| | |
|---------------------|-------------------------|
| Product type | Data cable preassembled |
| Sensor type | PROFINET |
| Number of positions | 4 |
| Connection profile | RJ45 8(4) |
| Number of slots | 1 |
| Shielded | yes |

Insulation characteristics

| | |
|----------------------|---|
| Overvoltage category | I |
| Degree of pollution | 1 |

Electrical properties

| | |
|---|-----------------------|
| Rated voltage (III/3) | 72 V (DC) |
| Rated current | 1.75 A |
| Nominal voltage U_N | 48 V |
| Nominal current I_N | 1 A |
| Transmission medium | Copper |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |
| Transmission speed | 100 Mbps |

Mechanical properties

Mechanical data

| | |
|-------------------------------------|------------|
| Insertion/withdrawal cycles | ≥ 750 |
| Insertion force per signal contact | 50.00 N |
| Extraction force per signal contact | 30 N |

Material specifications

| | |
|--|--------|
| Flammability rating according to UL 94 | V2 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Housing material | PA 6.6 |
| Outer sheath, material | PUR |

Connector

Connection 1

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

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


Connection 2

| | |
|---------------------------------|-------------------------|
| Type | Plug straight RJ45 |
| Shielded | yes |
| Handle color | black |
| Material | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | PA (Contact carriers) |
| | PA (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 80 °C |

Cable/line

| | |
|--------------|--------|
| Cable length | 1.00 m |
|--------------|--------|

PROFINET stranded CAT5 [93M]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Shielded | yes |
| UL AWM Style | 20236 (80°C/30 V) |
| Cable weight | 65 kg/km |
| Cable type | PROFINET stranded CAT5 |
| Cable type (abbreviation) | 93M |
| Signal type/category | PROFINET CAT5 (IEC 11801), 100 Mbps EtherCAT® CAT5 (IEC 11801), 100 Mbps |
| Cable structure | 1x4xAWG22/7, SF/TQ |
| External cable diameter | 6.50 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | green RAL 6018 |
| Thickness, outer sheath | approx. 0.90 mm |
| Material, inner sheath | PVC |
| Conductor material | Tin-plated Cu litz wires |
| Conductor structure signal line | 7x 0.25 mm |
| AWG signal line | 22 |

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| | |
|---|--|
| Conductor cross section | 4x 0.34 mm ² |
| Material wire insulation | PE |
| Wire diameter incl. insulation | approx. 1.5 mm |
| Single wire, color | white, yellow, blue, orange |
| Overall twist | Star quad |
| Shielding | Aluminum-coated foil, tinned copper braided shield |
| Nominal voltage, cable | 600 V |
| Test voltage Core/Core | 2000 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 2000.00 V (50 Hz, 1 min.) |
| Cable insulation resistance | ≥ 500 MΩ*km |
| Coupling resistance | ≤ 20.00 mΩ/m (at 10 MHz) |
| Wave impedance | 100 Ω ±15 Ω (at 100 MHz) |
| Loop resistance | ≤ 120.00 Ω/km |
| Working capacitance | 52 pF |
| Signal runtime | 5.3 ns/m |
| Minimum bending radius, fixed installation | 4 x D |
| Minimum bending radius, flexible installation | 8 x D |
| Near end crosstalk attenuation (NEXT) | 80 dB (with 1 MHz) |
| | 76 dB (at 4 MHz) |
| | 70 dB (at 10 MHz) |
| | 65 dB (at 16 MHz) |
| | 63 dB (at 20 MHz) |
| | 60 dB (at 31.25 MHz) |
| | 55 dB (at 62.5 MHz) |
| | 50 dB (at 100 MHz) |
| Ambient temperature (operation) | -40 °C ... 80 °C (Cable, flexible installation) |
| | -40 °C ... 80 °C |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|-----------------------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 80 °C (RJ45 connector) |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27060308 |
| ECLASS-12.0 | 27060308 |
| ECLASS-13.0 | 27060307 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002599 |
|----------|----------|

UNSPSC

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

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Environmental product compliance

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

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