

# NBC-R4AC/15,0-93M/R4AC - Patch cable



1420379

<https://www.phoenixcontact.com/us/products/1420379>

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Patch cable, degree of protection: IP20, cable length: 15 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET, 1x4xAWG22/7, SF/TQ, green RAL 6018

PROFINET patch cable

## 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                          | 1420379       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | ABNABA        |
| GTIN                                 | 4055626206462 |
| Weight per piece (including packing) | 1,006.7 g     |
| Weight per piece (excluding packing) | 983.196 g     |
| Country of origin                    | PL            |

## Technical data

### Product properties

|                     |                          |
|---------------------|--------------------------|
| Product type        | Data cable preassembled  |
| Product family      | RJ45 INDUSTRIAL PN4 CAT5 |
| Number of positions | 4                        |
| Connection profile  | RJ45 8(4)                |
| Shielded            | yes                      |

### Insulation characteristics

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

### Interfaces

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

### 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 speed    | 100 Mbps  |
| Transmission speed    | 100 Mbps  |

### Mechanical properties

#### Mechanical data

|                                     |         |
|-------------------------------------|---------|
| Insertion force per signal contact  | 50.00 N |
| Extraction force per signal contact | 30 N    |

### Material specifications

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

### Connector

#### Connection 1

|              |                    |
|--------------|--------------------|
| Type         | Plug straight RJ45 |
| Shielded     | yes                |
| Handle color | black              |
|              | CuSn (Contact)     |

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|                             |                         |
|-----------------------------|-------------------------|
| Material                    | Ni/Au (Contact surface) |
|                             | PA (Contact carrier)    |
|                             | 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 carrier)    |
|                             | PA (Housing)            |
| Insertion/withdrawal cycles | ≥ 750                   |
| Degree of protection        | IP20                    |

## Cable/line

|              |         |
|--------------|---------|
| Cable length | 15.00 m |
|--------------|---------|

## PROFINET stranded CAT5 [93M]

|                                |  |
|--------------------------------|--|
| Dimensional drawing            |  |
| UL AWM Style                   | 21238 (80 °C / 600 V)  |
| Number of positions            | 4  |
| Shielded                       | yes  |
| Cable type                     | PROFINET stranded CAT5 [93M]   |
| Conductor structure            | 1x4xAWG22/7, SF/TQ   |
| AWG signal line                | 22   |
| Conductor cross-section        | 4x 0.34 mm <sup>2</sup>  |
| Wire diameter incl. insulation | 1.56 mm ±0.05 mm   |
| External cable diameter        | 6.50 mm ±0.2 mm  |
| Outer sheath, material         | PUR  |
| External sheath, color         | green RAL 6018   |
| Conductor material             | Tin-plated Cu litz wires   |
| Material wire insulation       | PE   |
| Single wire, color             | white, yellow, blue, orange  |
| Overall twist                  | Star quad  |
| Optical shield covering        | 85 %   |

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|   |   |
|---|---|
| Insulation resistance                         | $\geq 500 \text{ M}\Omega \cdot \text{km}$              |
| Loop resistance                               | $\leq 120.00 \text{ }\Omega/\text{km}$                  |
| Wave impedance                                | $100 \text{ }\Omega \pm 15 \text{ }\Omega$ (at 100 MHz) |
| Nominal voltage, cable                        | $\leq 100 \text{ V}$                                    |
| Test voltage Core/Core                        | 2000 V (50 Hz, 1 min.)                                  |
| Test voltage Core/Shield                      | 2000.00 V (50 Hz, 1 min.)                               |
| Minimum bending radius, fixed installation    | 5 x D   |
| Minimum bending radius, flexible installation | 10 x D  |
| Halogen-free                                  | according to IEC 60754-1                                |
| Flame resistance                              | according to CSA C 22.2 No. 210-FT1                     |
| Ambient temperature (operation)               | -40 °C ... 80 °C  |
|   | -40 °C ... 80 °C (Cable, flexible installation)         |

## Environmental and real-life conditions

### Ambient conditions

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

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## Drawings

### Schematic diagram



Connector pin assignment plug RJ45

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Circuit diagram



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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

### 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% |
|-------------------------------------|----------------------------|

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