

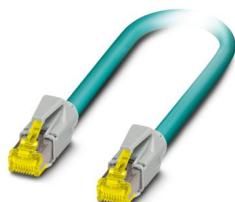
# NBC-R4AC/10G-R4AC/10G-94F/2,0 - Patch cable



1408360

<https://www.phoenixcontact.com/us/products/1408360>

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Patch cable, CAT6<sub>A</sub>, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m

## Your advantages

- Compact angle
- Perfect for industrial applications
- PVC cable for flexible installations
- 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++
- Resistant to shock and vibrations, thanks to robust molding
- High-speed data transmission with up to 1 Gbps (CAT5)

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1408360       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB11          |
| Product key                          | ABNABF        |
| GTIN                                 | 4046356805056 |
| Weight per piece (including packing) | 119.3 g       |
| Weight per piece (excluding packing) | 102.556 g     |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

## Technical data

### Product properties

|                     |                           |
|---------------------|---------------------------|
| Product type        | Data cable preassembled   |
| Product family      | RJ45 INDUSTRIAL IE8 CAT6A |
| Sensor type         | Ethernet                  |
| Number of positions | 8                         |
| Shielded            | yes                       |

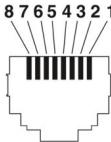
### Electrical properties

|   |                   |
|---|-------------------|
| Rated voltage (III/3)                   | 72 V (DC)         |
| Nominal voltage $U_N$                   | 48 V              |
| Nominal current $I_N$                   | 0.5 A             |
| Transmission speed                      | 10 Gbps           |
| Transmission characteristics (category) | CAT6 <sub>A</sub> |
| Transmission speed                      | 10 Gbps           |

### Material specifications

|                        |     |
|------------------------|-----|
| Outer sheath, material | PUR |
|------------------------|-----|

### Connector

|                             |   |
|-----------------------------|---|
| Connection 1                |   |
| Dimensional drawing         |  |
|                             | Connector pin assignment plug RJ45  |
| Type                        | RJ45 Plug, straight, 8-position   |
| Number of positions         | 8   |
| Signal type/category        | Ethernet CAT6 <sub>A</sub> , 10 Gbps  |
|                             | CC-Link IE CAT6 <sub>A</sub> , 10 Gbps  |
| Insertion/withdrawal cycles | ≥ 750   |
| Insulation resistance       | ≥ 100 Ω   |
| Overshoot category          | I   |
| Degree of pollution         | 2   |
| Material Contact            | CuSn  |
| Material Contact surface    | Ni/Au   |
| Material Contact carrier    | PC  |
| Material Housing            | PA  |

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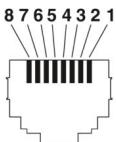


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|  |                       |
|--|-----------------------|
| Color (Housing)                        | gray                  |
| Flammability rating according to UL 94 | V2                    |
| Degree of protection                   | IP20 (RJ45 connector) |
| Ambient temperature (operation)        | -25 °C ... 60 °C      |

## Connection 2

|  |   |
|--|---|
| Dimensional drawing                    |  |
|  | Connector pin assignment plug RJ45  |
| Type                                   | RJ45 Plug, straight, 8-position   |
| Number of positions                    | 8   |
| Signal type/category                   | Ethernet CAT6 <sub>A</sub> , 10 Gbps<br>CC-Link IE CAT6 <sub>A</sub> , 10 Gbps    |
| Insertion/withdrawal cycles            | ≥ 750   |
| Insulation resistance                  | ≥ 100 Ω   |
| Overshoot category                     | I   |
| Degree of pollution                    | 2   |
| Material Contact                       | CuSn  |
| Material Contact surface               | Ni/Au   |
| Material Contact carrier               | PC  |
| Material Housing                       | PA  |
| Color (Housing)                        | gray  |
| Flammability rating according to UL 94 | V2  |
| Degree of protection                   | IP20 (RJ45 connector)   |
| Ambient temperature (operation)        | -25 °C ... 60 °C  |

## Cable/line

|                        |  |
|------------------------|--|
| Cable length           | 2.00 m   |
| Ethernet 10 Gbit [94F] |  |
| Dimensional drawing    |  |
| UL AWM Style           | 21238 (80 °C / 600 V)  |

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|   |   |
|---|---|
| Number of positions                           | 8   |
| Shielded                                      | yes   |
| Cable type                                    | Ethernet 10 Gbit [94F]  |
| Conductor structure                           | 4x2xAWG26/7; S/FTP  |
| AWG signal line                               | 26  |
| Conductor cross section                       | 4x 2x 0.14 mm <sup>2</sup>  |
| Wire diameter incl. insulation                | 1 mm ±0.05 mm   |
| External cable diameter                       | 6.40 mm ±0.2 mm   |
| Outer sheath, material                        | PUR   |
| External sheath, color                        | water blue RAL 5021   |
| Conductor material                            | Bare Cu litz wires  |
| Material wire insulation                      | Foamed PE   |
| 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  |
| Optical shield covering                       | 70 %  |
| Insulation resistance                         | ≥ 500 MΩ*km   |
| Loop resistance                               | ≤ 290.00 Ω/km   |
| Wave impedance                                | 100 Ω ±5 Ω (at 100 MHz)   |
| Nominal voltage, cable                        | ≤ 100 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    | 4 x D   |
| Minimum bending radius, flexible installation | 8 x D   |
| Smallest bending radius, fixed installation   | 26 mm   |
| Smallest bending radius, movable installation | 51 mm   |
| Halogen-free                                  | according to IEC 60754-1  |
| Flame resistance                              | according to IEC 60332-1-2  |
|   | in accordance with UN ECE-R 118.03  |
|   | according to CSA C 22.2 No. 210-FT1   |
| Resistance to oil                             | in accordance with DIN EN 60811-404   |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)<br>-20 °C ... 80 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|                                 |  |
|---------------------------------|--|
| Ambient temperature (operation) | -20 °C ... 80 °C (cable, fixed installation) |
|---------------------------------|--|

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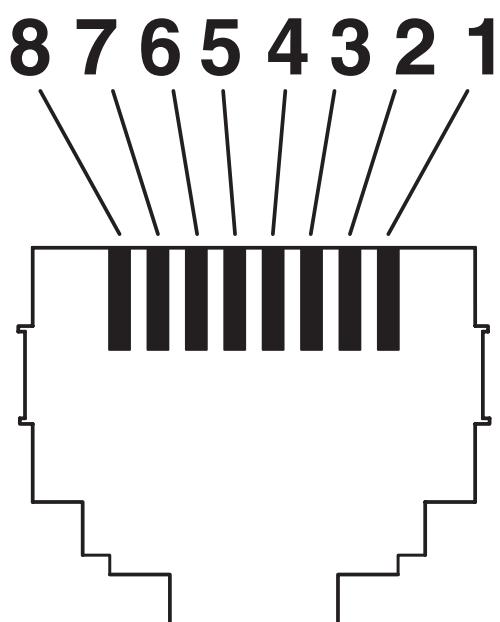
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## Drawings

Schematic diagram



Connector pin assignment plug RJ45

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1408360>



**EAC**

Approval ID: 19060508

## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

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

## 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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