

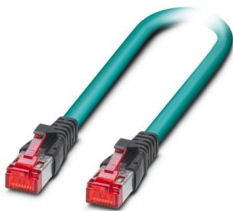
# NBC-R4AC1/1,0-94G/R4AC1-BU - Patch cable



1413160

<https://www.phoenixcontact.com/us/products/1413160>

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Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, Ethernet, 2x2xAWG26/7, S/FTP, water blue RAL 5021

## 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                          | 1413160       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB11          |
| Product key                          | ABNABH        |
| GTIN                                 | 4046356989954 |
| Weight per piece (including packing) | 50.4 g        |
| Weight per piece (excluding packing) | 47.18 g       |
| Customs tariff number                | 85444210      |
| Country of origin                    | PL            |

## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable preassembled |
| Product family      | RJ45 STANDARD CAT6A     |
| Sensor type         | Ethernet                |
| Number of positions | 8                       |
| Connection profile  | RJ45                    |
| Shielded            | yes                     |

### Signaling

|                        |    |
|------------------------|----|
| Status display         | no |
| Status display present | no |

### Electrical properties

|                       |                   |
|-----------------------|-------------------|
| Rated voltage (III/3) | 72 V (DC)         |
| Nominal voltage $U_N$ | 48 V              |
| Nominal current $I_N$ | 0.5 A             |
| Transmission medium   | Copper            |
| Transmission speed    | 10 Gbps (500 MHz) |
| Transmission speed    | 10 Gbps           |

### Mechanical properties

#### Mechanical data

|                                     |         |
|-------------------------------------|---------|
| Insertion/withdrawal cycles         | 200     |
| Insertion force per signal contact  | 50.00 N |
| Extraction force per signal contact | 30 N    |

### Material specifications

|                          |      |
|--------------------------|------|
| Contact material         | CuSn |
| Contact surface material | Au   |
| Contact carrier material | PC   |
| Outer sheath, material   | PUR  |

### Connection data

#### Connection technology

|                   |                   |
|-------------------|-------------------|
| Connection method | Pierce connection |
|-------------------|-------------------|

#### Conductor connection

|                   |                   |
|-------------------|-------------------|
| Connection method | Pierce connection |
|-------------------|-------------------|

### Connector

#### Connection 1

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|                             |                    |
|-----------------------------|--------------------|
| Type                        | Plug straight RJ45 |
| Shielded                    | yes                |
| Insertion/withdrawal cycles | ≥ 750              |
| Degree of protection        | IP20               |

## Connection 2

|                             |                    |
|-----------------------------|--------------------|
| Type                        | Plug straight RJ45 |
| Shielded                    | yes                |
| Insertion/withdrawal cycles | ≥ 750              |
| Degree of protection        | IP20               |

## Cable/line

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

## Ethernet, CAT6<sub>A</sub>, 4-pair, S/FTP [94G]

|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Number of positions     | 8                                                 |
| Shielded                | yes                                               |
| Cable type              | Ethernet, CAT6 <sub>A</sub> , 4-pair, S/FTP [94G] |
| Conductor structure     | 2x2xAWG26/7, S/FTP                                |
| AWG signal line         | 26                                                |
| Outer sheath, material  | PUR                                               |
| External sheath, color  | water blue RAL 5021                               |
| Optical shield covering | 65 %                                              |
| Flame resistance        | according to IEC 60332-1                          |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Degree of protection            | IP20                              |
|                                 | IP20                              |
| Ambient temperature (operation) | -25 °C ... 60 °C (RJ45 connector) |

## Standards and regulations

|                  |             |
|------------------|-------------|
| Flame resistance | IEC 60332-1 |
|------------------|-------------|

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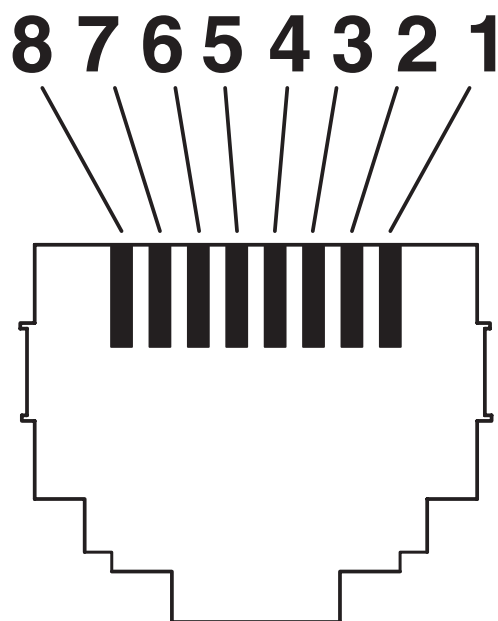
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## Drawings

### 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/1413160>



**EAC**

Approval ID: 19060508

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