

# NBC-R4OC/5,0-BC6A/R4OC-BL - Patch cable



1367339

<https://www.phoenixcontact.com/in/products/1367339>

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Patch cable, degree of protection: IP20, cable length: 5 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## Your advantages

- Perfect for office, building, and protected industrial applications (e.g., in control cabinets)
- 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++
- Future-proof high-speed data transmission with up to 10 Gbps (CAT6<sub>A</sub>)

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1367339       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 10 pc         |
| Product key                          | ABNABH        |
| GTIN                                 | 4063151721619 |
| Weight per piece (including packing) | 271 g         |
| Weight per piece (excluding packing) | 271 g         |
| Country of origin                    | CN            |

## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable preassembled |
| Product family      | RJ45 STANDARD CAT6A     |
| Sensor type         | Ethernet                |
| Number of positions | 8                       |
| Shielded            | yes                     |
| Cable outlet        | straight                |

### Insulation characteristics

|                      |   |
|----------------------|---|
| Overvoltage category | I |
| Degree of pollution  | 2 |

### Electrical properties

|                       |         |
|-----------------------|---------|
| Rated voltage (III/2) | 72 V    |
| Transmission medium   | Copper  |
| Transmission speed    | 10 Gbps |
| Power transmission    | PoE++   |

### Mechanical properties

#### Mechanical data

|                                     |         |
|-------------------------------------|---------|
| Insertion force per signal contact  | 30.00 N |
| Extraction force per signal contact | 50 N    |

### Material specifications

|                                        |       |
|----------------------------------------|-------|
| Flammability rating according to UL 94 | V0    |
| Contact material                       | Brass |
| Contact surface material               | Au    |
| Contact carrier material               | PC    |
| Outer sheath, material                 | LSZH  |

### Dimensions

|        |         |
|--------|---------|
| Width  | 11.6 mm |
| Height | 14.8 mm |
| Length | 40 mm   |

### Connection data

#### Connection technology

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

#### Conductor connection

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

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## Connector

### Connection 1

|                                 |                    |
|---------------------------------|--------------------|
| Type                            | Plug straight RJ45 |
| Shielded                        | yes                |
| Handle color                    | blue               |
| Insertion/withdrawal cycles     | ≥ 750              |
| Degree of protection            | IP20               |
| Ambient temperature (operation) | -20 °C ... 80 °C   |

### Connection 2

|                                 |                    |
|---------------------------------|--------------------|
| Type                            | Plug straight RJ45 |
| Shielded                        | yes                |
| Handle color                    | blue               |
| Insertion/withdrawal cycles     | ≥ 750              |
| Degree of protection            | IP20               |
| Ambient temperature (operation) | -20 °C ... 80 °C   |

## Cable/line

|              |        |
|--------------|--------|
| Cable length | 5.00 m |
|--------------|--------|

### Ethernet, Type B, 8-pos., CAT6A, LSZH [BC6A]

|                                             |                                              |
|---------------------------------------------|----------------------------------------------|
| Number of positions                         | 8                                            |
| Shielded                                    | yes                                          |
| Cable type                                  | Ethernet, Type B, 8-pos., CAT6A, LSZH [BC6A] |
| Conductor structure                         | 4x2xAWG26/7; S/FTP                           |
| Conductor structure signal line             | 7x 0.16 mm                                   |
| AWG signal line                             | 26                                           |
| Wire diameter incl. insulation              | 1 mm                                         |
| External cable diameter                     | 6.50 mm ±0.3 mm                              |
| Outer sheath, material                      | LSZH                                         |
| External sheath, color                      | blue                                         |
| Conductor material                          | Bare Cu litz wires                           |
| Material wire insulation                    | PE                                           |
| Single wires, quantity                      | 8                                            |
| Single wire, cross section [AWG]            | 26                                           |
| Thickness, outer sheath                     | approx. 0.70 mm                              |
| Optical shield covering                     | 70 %                                         |
| Insulation resistance                       | ≥ 5000 MΩ*km                                 |
| Loop resistance                             | ≤ 148.00 Ω/km                                |
| Wave impedance                              | 100 Ω                                        |
| Minimum bending radius, fixed installation  | 8 x D                                        |
| Smallest bending radius, fixed installation | 52 mm                                        |
| Near end crosstalk attenuation (NEXT)       | 75 dB (with 1 MHz)                           |
|                                             | 66.3 dB (at 4 MHz)                           |

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|                                                        |                        |
|--------------------------------------------------------|------------------------|
|                                                        | 60.3 dB (at 10 MHz)    |
|                                                        | 57.2 dB (at 16 MHz)    |
|                                                        | 55.8 dB (at 20 MHz)    |
|                                                        | 52.9 dB (at 31.25 MHz) |
|                                                        | 48.4 dB (at 62.5 MHz)  |
|                                                        | 45.3 dB (at 100 MHz)   |
|                                                        | 40.8 dB (at 200 MHz)   |
|                                                        | 38.1 dB (at 300 MHz)   |
|                                                        | 36.3 dB (at 400 MHz)   |
|                                                        | 34.8 dB (at 500 MHz)   |
| Power-summated near end crosstalk attenuation (PSNEXT) | 72.3 dB (with 1 MHz)   |
|                                                        | 63.3 dB (at 4 MHz)     |
|                                                        | 58.8 dB (at 8 MHz)     |
|                                                        | 57.3 dB (at 10 MHz)    |
|                                                        | 54.2 dB (at 16 MHz)    |
|                                                        | 52.8 dB (at 20 MHz)    |
|                                                        | 51.3 dB (at 25 MHz)    |
|                                                        | 49.9 dB (at 31.25 MHz) |
|                                                        | 45.4 dB (at 62.5 MHz)  |
|                                                        | 42.3 dB (at 100 MHz)   |
|                                                        | 37.8 dB (at 200 MHz)   |
|                                                        | 35.1 dB (at 300 MHz)   |
|                                                        | 33.3 dB (at 400 MHz)   |
|                                                        | 31.8 dB (at 500 MHz)   |
| Return attenuation (RL)                                | 20 dB (with 1 MHz)     |
|                                                        | 23 dB (at 4 MHz)       |
|                                                        | 24.5 dB (at 8 MHz)     |
|                                                        | 25 dB (at 10 MHz)      |
|                                                        | 25 dB (at 16 MHz)      |
|                                                        | 25 dB (at 20 MHz)      |
|                                                        | 24.2 dB (at 25 MHz)    |
|                                                        | 23.3 dB (at 31.25 MHz) |
|                                                        | 20.7 dB (at 62.5 MHz)  |
|                                                        | 19 dB (at 100 MHz)     |
|                                                        | 16.4 dB (at 200 MHz)   |
|                                                        | 15.6 dB (at 300 MHz)   |
|                                                        | 15.6 dB (at 400 MHz)   |
|                                                        | 15.6 dB (at 500 MHz)   |
| Shield attenuation                                     | 3.1 dB (with 1 MHz)    |
|                                                        | 5.7 dB (at 4 MHz)      |
|                                                        | 8.9 dB (at 10 MHz)     |
|                                                        | 11.2 dB (at 16 MHz)    |
|                                                        | 12.6 dB (at 20 MHz)    |
|                                                        | 15.8 dB (at 31.25 MHz) |

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|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
|                                    | 22.5 dB (at 62.5 MHz)                           |
|                                    | 28.7 dB (at 100 MHz)                            |
|                                    | 41.4 dB (at 200 MHz)                            |
|                                    | 51.4 dB (at 300 MHz)                            |
|                                    | 60.1 dB (at 400 MHz)                            |
|                                    | 67.9 dB (at 500 MHz)                            |
| Halogen-free                       | complying with IEC 60754-1/2                    |
| Flame resistance                   | IEC 60332-1-2/IEC 60332-3-24/CM                 |
| Ambient temperature (operation)    | -20 °C ... 80 °C (cable, fixed installation)    |
|                                    | -20 °C ... 80 °C (Cable, flexible installation) |
| Ambient temperature (installation) | 0 °C ... 60 °C                                  |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Degree of protection                    | IP20             |
| Ambient temperature (operation)         | -20 °C ... 80 °C |
| Ambient temperature (storage/transport) | 0 °C ... 40 °C   |

## Standards and regulations

|                  |               |
|------------------|---------------|
| Flame resistance | IEC 60332-1-2 |
|------------------|---------------|

# NBC-R4OC/5,0-BC6A/R4OC-BL - Patch cable



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1367339>



**EAC**

Approval ID: 19060508



**UL Listed**

Approval ID: E335024\_20210804



**cUL Listed**

Approval ID: E335024\_20210804

**cULus Listed**

# NBC-R4OC/5,0-BC6A/R4OC-BL - Patch cable



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## Classifications

### ECLASS

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

### ETIM

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

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%               |

## NBC-R4OC/5,0-BC6A/R4OC-BL - Patch cable

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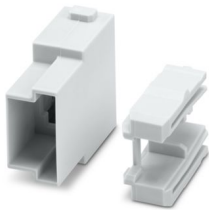


### Accessories

#### HC-M-RJ45-AD-PC2-M - Contact insert module

1435214

<https://www.phoenixcontact.com/in/products/1435214>



Contact insert module, adapter for patch cables, the matching patch cables can be found in the accessories list

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#### NBC-R4OC/0,3-BC6A/R4OC - Patch cable

1227572

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Patch cable, degree of protection: IP20, cable length: 0.3 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

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## NBC-R4OC/0,5-BC6A/R4OC - Patch cable

1227573

<https://www.phoenixcontact.com/in/products/1227573>



Patch cable, degree of protection: IP20, cable length: 0.5 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

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## NBC-R4OC/1,0-BC6A/R4OC - Patch cable

1227575

<https://www.phoenixcontact.com/in/products/1227575>



Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

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## NBC-R4OC/1,5-BC6A/R4OC - Patch cable

1227578

<https://www.phoenixcontact.com/in/products/1227578>



Patch cable, degree of protection: IP20, cable length: 1.5 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

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## NBC-R4OC/2,0-BC6A/R4OC - Patch cable

1227580

<https://www.phoenixcontact.com/in/products/1227580>



Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/5,0-BC6A/R4OC-BL - Patch cable

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## NBC-R4OC/3,0-BC6A/R4OC - Patch cable

1227581

<https://www.phoenixcontact.com/in/products/1227581>



Patch cable, degree of protection: IP20, cable length: 3 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

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## NBC-R4OC/5,0-BC6A/R4OC - Patch cable

1227583

<https://www.phoenixcontact.com/in/products/1227583>



Patch cable, degree of protection: IP20, cable length: 5 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/5,0-BC6A/R4OC-BL - Patch cable

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## NBC-R4OC/7,5-BC6A/R4OC - Patch cable

1227585

<https://www.phoenixcontact.com/in/products/1227585>



Patch cable, degree of protection: IP20, cable length: 7.5 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

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## NBC-R4OC/10,0-BC6A/R4OC - Patch cable

1227588

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Patch cable, degree of protection: IP20, cable length: 10 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/5,0-BC6A/R4OC-BL - Patch cable

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## NBC-R4OC/0,3-BC5/R4OC - Patch cable

1227558

<https://www.phoenixcontact.com/in/products/1227558>



Patch cable, degree of protection: IP20, cable length: 0.3 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

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## NBC-R4OC/0,5-BC5/R4OC - Patch cable

1227559

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Patch cable, degree of protection: IP20, cable length: 0.5 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/5,0-BC6A/R4OC-BL - Patch cable

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## NBC-R4OC/1,0-BC5/R4OC - Patch cable

1227560

<https://www.phoenixcontact.com/in/products/1227560>



Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

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## NBC-R4OC/1,5-BC5/R4OC - Patch cable

1227561

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Patch cable, degree of protection: IP20, cable length: 1.5 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/5,0-BC6A/R4OC-BL - Patch cable

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## NBC-R4OC/2,0-BC5/R4OC - Patch cable

1227562

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Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

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## NBC-R4OC/3,0-BC5/R4OC - Patch cable

1227563

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Patch cable, degree of protection: IP20, cable length: 3 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/5,0-BC6A/R4OC-BL - Patch cable

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## NBC-R4OC/5,0-BC5/R4OC - Patch cable

1227564

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Patch cable, degree of protection: IP20, cable length: 5 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

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## NBC-R4OC/7,5-BC5/R4OC - Patch cable

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Patch cable, degree of protection: IP20, cable length: 7.5 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

## NBC-R4OC/5,0-BC6A/R4OC-BL - Patch cable

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## NBC-R4OC/10,0-BC5/R4OC - Patch cable

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Patch cable, degree of protection: IP20, cable length: 10 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet

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PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)