

# NBC-R4OC/20,0-BC5/R4OC - Patch cable



1227571  
<https://www.phoenixcontact.com/us/products/1227571>

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Patch cable, degree of protection: IP20, cable length: 20 m, number of positions: 8, CAT5, connection method: Pierce connection, connection cross section: AWG 26- 26, cable outlet: straight, Ethernet, 2x2xAWG26/7, S/UTP, gray

## 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++
- High-speed data transmission with up to 1 Gbps (CAT5)

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1227571       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB11          |
| Product key                          | ABNABG        |
| GTIN                                 | 4063151321949 |
| Weight per piece (including packing) | 846 g         |
| Weight per piece (excluding packing) | 846 g         |
| Customs tariff number                | 85444290      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable preassembled |
| Product family      | RJ45 STANDARD CAT5      |
| 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 characteristics (category) | CAT5   |
| 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                    | gray               |
| 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                    | gray               |
| Insertion/withdrawal cycles     | ≥ 750              |
| Degree of protection            | IP20               |
| Ambient temperature (operation) | -20 °C ... 80 °C   |

## Cable/line

|              |         |
|--------------|---------|
| Cable length | 20.00 m |
|--------------|---------|

### Ethernet, Type B, 8-pos., CAT5, LSZH [BC5]

|   |  |
|---|--|
| Number of positions                         | 8  |
| Shielded                                    | yes  |
| Cable type                                  | Ethernet, Type B, 8-pos., CAT5, LSZH [BC5] |
| Conductor structure                         | 2x2xAWG26/7, S/UTP                         |
| Conductor structure signal line             | 7x 0.16 mm                                 |
| AWG signal line                             | 26   |
| Wire diameter incl. insulation              | 0.85 mm                                    |
| External cable diameter                     | 5.70 mm ±0.3 mm                            |
| Outer sheath, material                      | LSZH                                       |
| External sheath, color                      | gray                                       |
| 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 | 46 mm                                      |
| Near end crosstalk attenuation (NEXT)       | 65.3 dB (with 1 MHz)<br>56.3 dB (at 4 MHz) |

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|  |   |
|--|---|
|  | 50.3 dB (at 10 MHz)                             |
|  | 47.2 dB (at 16 MHz)                             |
|  | 45.8 dB (at 20 MHz)                             |
|  | 42.9 dB (at 31.25 MHz)                          |
|  | 38.4 dB (at 62.5 MHz)                           |
|  | 35.3 dB (at 100 MHz)                            |
| Power-summated near end crosstalk attenuation (PSNEXT) | 62.3 dB (with 1 MHz)                            |
|  | 53.3 dB (at 4 MHz)                              |
|  | 48.8 dB (at 8 MHz)                              |
|  | 47.3 dB (at 10 MHz)                             |
|  | 44.2 dB (at 16 MHz)                             |
|  | 42.8 dB (at 20 MHz)                             |
|  | 41.3 dB (at 25 MHz)                             |
|  | 39.9 dB (at 31.25 MHz)                          |
|  | 35.4 dB (at 62.5 MHz)                           |
|  | 32.3 dB (at 100 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)                              |
| Shield attenuation                                     | 3.2 dB (with 1 MHz)                             |
|  | 6.01 dB (at 4 MHz)                              |
|  | 9.49 dB (at 10 MHz)                             |
|  | 12.07 dB (at 16 MHz)                            |
|  | 13.54 dB (at 20 MHz)                            |
|  | 17.11 dB (at 31.25 MHz)                         |
|  | 24.76 dB (at 62.5 MHz)                          |
|  | 31.99 dB (at 100 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 |
|----------------------|------|

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

## Standards and regulations

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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1227571>



**EAC**

Approval ID: 19060508



**UL Listed**

Approval ID: E335024\_20210804



**cUL Listed**

Approval ID: E335024\_20210804

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## Classifications

### ECLASS

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

### ETIM

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