

NBC-R4OC/50,0-BC6A/R4OC - Patch cable



1367337
<https://www.phoenixcontact.com/us/products/1367337>

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Patch cable, degree of protection: IP20, cable length: 50 m, number of positions: 8, 10 Gbps, CAT6_A, 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_A)

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1367337 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB11 |
| Product key | ABNABH |
| GTIN | 4063151712587 |
| Weight per piece (including packing) | 2,500.1 g |
| Weight per piece (excluding packing) | 2,463.1 g |
| Customs tariff number | 85444290 |
| Country of origin | CN |

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Technical data

Product properties

| | |
|---------------------|-------------------------|
| Product type | Data cable preassembled |
| 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 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 |
|-------------------|-------------------|

Connector

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Connection 1

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

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 | 50.00 m |
|--------------|---------|

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

| | |
|--|---------------------------------------|
| Shielded | yes |
| Cable type | Ethernet, Type B, 8-pos., CAT6A, LSZH |
| Cable type (abbreviation) | BC6A |
| Cable structure | 4x2xAWG26/7; S/FTP |
| External cable diameter | 6.50 mm ±0.3 mm |
| Outer sheath, material | LSZH |
| External sheath, color | gray |
| Thickness, outer sheath | approx. 0.70 mm |
| Conductor material | Bare Cu litz wires |
| Conductor structure signal line | 7x 0.16 mm |
| AWG signal line | 26 |
| Material wire insulation | PE |
| Single wire, number of litz wires | 8 |
| Wire diameter incl. insulation | 1 mm |
| Single wire, cross section [AWG] | 26 |
| Shielding | S/FTP |
| Optical shield covering | 70 % |
| Cable insulation resistance | ≥ 5000 MΩ*km |
| Wave impedance | 100 Ω |
| Loop resistance | ≤ 148.00 Ω/km |
| Minimum bending radius, fixed installation | 8 x D |
| Near end crosstalk attenuation (NEXT) | 75 dB (with 1 MHz) |
| | 66.3 dB (at 4 MHz) |
| | 60.3 dB (at 10 MHz) |
| | 57.2 dB (at 16 MHz) |
| | 55.8 dB (at 20 MHz) |

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| | |
|--|---|
| | 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) |
| 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, flexible installation) |
| | -20 °C ... 80 °C (cable, fixed installation) |

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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Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002599 |
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