

NBC-R40C/1,0-BC6A/R40C - Patch cable



1227575

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Patch cable, RJ45/IP20 straight on RJ45/IP20 straight, cable length: 1 m, number of positions: 8, connection cross section: AWG 26- 26, 4x2xAWG26/7; S/FTP, 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++
- Future-proof high-speed data transmission with up to 10 Gbps (CAT6_A)

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1227575 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | ABNABH |
| Product key | ABNABH |
| GTIN | 4063151321956 |
| Weight per piece (including packing) | 69,5 g |
| Weight per piece (excluding packing) | 64,4 g |
| Customs tariff number | 85444210 |
| Country of origin | CN |

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



1227575

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

Technical data

Product properties

| | |
|---------------------|---------------------|
| Product family | RJ45 STANDARD CAT6A |
| Number of positions | 8 |
| Shielded | yes |

Electrical properties

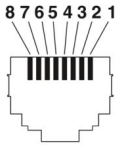
| | |
|---|-------------------|
| Rated voltage (III/2) | 72 V |
| Transmission characteristics (category) | CAT6 _A |
| Power transmission | PoE++ |

Dimensions

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

Connector

Connection 1

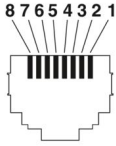
| | |
|--|---|
| Dimensional drawing |  <p>Connector pin assignment plug RJ45</p> |
| Type | RJ45 Plug, straight, 8-position |
| Number of positions | 8 |
| Shielded | yes |
| Signal type/category | Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps |
| Insertion/withdrawal cycles | ≥ 750 |
| Insertion force | 30 N (per signal contact) |
| Withdrawal force | 50 N (per signal contact) |
| Overvoltage category | I |
| Degree of pollution | 2 |
| Material Contact | Brass |
| Material Contact surface | Au |
| Material Contact carrier | PC |
| Color (Housing) | gray |
| Flammability rating according to UL 94 | V0 |
| Degree of protection | IP20 |

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



1227575

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

| | |
|--|---|
| Ambient temperature (operation) | -20 °C ... 80 °C |
| Connection 2 | |
| Dimensional drawing |  <p>Connector pin assignment plug RJ45</p> |
| Type | RJ45 Plug, straight, 8-position |
| Number of positions | 8 |
| Shielded | yes |
| Signal type/category | Ethernet CAT6 _A (IEC 11801:2002), 10 Gbps |
| Insertion/withdrawal cycles | ≥ 750 |
| Insertion force | 30 N (per signal contact) |
| Withdrawal force | 50 N (per signal contact) |
| Overvoltage category | I |
| Degree of pollution | 2 |
| Material Contact | Brass |
| Material Contact surface | Au |
| Material Contact carrier | PC |
| Color (Housing) | gray |
| Flammability rating according to UL 94 | V0 |
| Degree of protection | IP20 |
| Ambient temperature (operation) | -20 °C ... 80 °C |

Cable/line

| | |
|--|--|
| Cable length | 1.00 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 | gray |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PE |

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



1227575

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

| | |
|--|---|
| Single wires, quantity | 8 |
| Single wire, cross section [AWG] | 26 |
| Thickness, outer sheath | approx. 0.70 mm |
| Optical shield covering | 70 % |
| Insulation resistance | $\geq 5000 \text{ M}\Omega \cdot \text{km}$ |
| Loop resistance | $\leq 148.00 \text{ }\Omega/\text{km}$ |
| Wave impedance | 100 Ω |
| Test voltage Core/Core | 1000 V DC |
| | 707 V AC |
| Test voltage Core/Shield | 1500.00 V DC |
| | 1010.00 V AC |
| 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) |
| | 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-summed 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) |

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



1227575

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

| | |
|------------------------------------|---|
| | 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) |
| | 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 |

Standards and regulations

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

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



1227575

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

Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1227575>



EAC

Approval ID: 19060508



UL Listed

Approval ID: E335024_20210804



cUL Listed

Approval ID: E335024_20210804

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



1227575

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

Classifications

ECLASS

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

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

UNSPSC

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

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



1227575

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

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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT B.V.
Hengelder 56 6902 PA Zevenaar
Postbus 246 6900 AE Zevenaar
(0316) 59 17 20
sales@phoenixcontact.nl