

NBC-R4ACS/5,0-94C/OE - Patch cable



1113209

<https://www.phoenixcontact.com/us/products/1113209>

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Patch cable, degree of protection: IP20, cable length: 5 m, number of positions: 8, 1 Gbps, CAT5, material: PP, connection method: Pierce connection, connection cross section: AWG 26-26, cable outlet: straight, Ethernet

Your advantages

- Perfect for industrial applications
- PUR cable for moving applications (bend)
- 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 | 1113209 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB11 |
| Product key | ABNABE |
| GTIN | 4063151034580 |
| Weight per piece (including packing) | 303.1 g |
| Weight per piece (excluding packing) | 289.908 g |
| Customs tariff number | 85444210 |
| Country of origin | PL |

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 |
| Rated current | 1.5 A |
| Insulation resistance | > 1 TΩ |
| Contact resistance | < 20 mΩ |
| Transmission characteristics (category) | CAT5 |
| Transmission speed | 1 Gbps |

Mechanical properties

Mechanical data

| | |
|-------------------------------------|---------|
| Insertion force per signal contact | 50.00 N |
| Extraction force per signal contact | 30 N |

Material specifications

| | |
|--|--------------|
| Flammability rating according to UL 94 | V2 |
| Contact material | CuSn6 |
| Contact surface material | Ni/Au |
| Contact carrier material | PC |
| Housing material | PP |
| Outer sheath, material | PUR |
| Conductor material | Copper, bare |

Dimensions

| | |
|--------|---------|
| Width | 13.8 mm |
| Height | 14.8 mm |
| Length | 44.2 mm |

Connection data

Connection technology

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

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Conductor connection

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

Connector

Connection 1

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


Connection 2

| | |
|------|----------------|
| Type | free cable end |
|------|----------------|

Cable/line

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

Ethernet drag chain CAT5, 4-pair [94C]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Shielded | yes |
| UL AWM Style | 20963 (80°C/30 V) |
| Cable weight | 57 kg/km |
| Cable type | Ethernet drag chain CAT5, 4-pair |
| Short symbol | 9YC(ST)11Y |
| Cable type (abbreviation) | 94C |
| Signal type/category | Ethernet CAT5 (IEC 11801), 1 Gbps |
| Cable structure | 4x2xAWG26/19, S/UTP |
| External cable diameter | 6.90 mm +0.1 mm ... 0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |
| Thickness, outer sheath | 0.85 mm |
| Conductor material | Bare Cu litz wires |
| Conductor structure signal line | 19x 0.10 mm |
| AWG signal line | 26 |
| Conductor cross section | 4x 2x 0.14 mm ² |
| Material wire insulation | PP |
| Wire diameter incl. insulation | 1 mm |

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| | |
|--|--|
| Single wire, color | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| Twisted pairs | 2 cores to the pair |
| Overall twist | Four pairs and four fillers to the core |
| Shielding | Tinned copper braided shield |
| Optical shield covering | 90 % |
| Nominal voltage, cable | ≤ 100 V |
| Test voltage Core/Core | 700 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 700.00 V (50 Hz, 1 min.) |
| Cable insulation resistance | ≥ 500 MΩ*km |
| Coupling resistance | ≤ 100.00 mΩ/m (at 10 MHz) |
| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
| Loop resistance | ≤ 290.00 Ω/km |
| Cable capacity | approx. 50 nF/km (at 1 kHz) |
| Signal runtime | 5.3 ns/m |
| Tensile strength | ≤ 100 N |
| Minimum bending radius, fixed installation | 4 x D |
| Minimum bending radius, flexible installation | 8 x D |
| Number of bending cycles | 5000000 |
| Minimum bending radius, drag chain applications | 7,5 x D |
| Traversing rate | 3 m/s |
| Acceleration | 5 m/s ² |
| Damping | 3.2 dB (with 1 MHz) |
| | 6 dB (at 4 MHz) |
| | 9.5 dB (at 10 MHz) |
| | 12.1 dB (at 16 MHz) |
| | 13.6 dB (at 20 MHz) |
| | 17.1 dB (at 31.25 MHz) |
| | 24.8 dB (at 62.5 MHz) |
| | 32 dB (at 100 MHz) |
| Near end crosstalk attenuation (NEXT) | 65.3 dB (with 1 MHz) |
| | 56.3 dB (at 4 MHz) |
| | 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) |
| | 47.3 dB (at 10 MHz) |
| | 44.2 dB (at 16 MHz) |
| | 42.8 dB (at 20 MHz) |
| | 39.9 dB (at 31.25 MHz) |

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| Return attenuation (RL) | 35.4 dB (at 62.5 MHz) |
| | 32.3 dB (at 100 MHz) |
| | 23 dB (at 4 MHz) |
| | 24.1 dB (at 8 MHz) |
| | 25 dB (at 10 MHz) |
| | 25 dB (at 16 MHz) |
| | 25 dB (at 20 MHz) |
| | 23.6 dB (at 31.25 MHz) |
| | 21.5 dB (at 62.5 MHz) |
| | 20.1 dB (at 100 MHz) |
| Halogen-free | according to IEC 60754-1 |
| Resistance to oil | in accordance with EN 60811-2-1 |
| Flame resistance | according to IEC 60332-1-2 |
| Ambient temperature (operation) | -20 °C ... 80 °C (Cable, flexible installation) |
| | -40 °C ... 80 °C (cable, fixed installation) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|-----------------------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 85 °C (RJ45 connector) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C (RJ45 connector) |

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Classifications

ECLASS

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

ETIM

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

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e No hazardous substances above threshold values |
|------------|---|

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com