

NBC-R4ACS/1,0-93B/R4ACT - Patch cable



1113310

<https://www.phoenixcontact.com/us/products/1113310>

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Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, 100 Mbps, CAT5, material: PP, connection method: Pierce connection, cable outlet: straight, PROFINET

Your advantages

- Compact angle
- Perfect for industrial applications
- PVC cable for flexible installations
- 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++
- Resistant to shock and vibrations, thanks to robust molding
- High-speed data transmission with up to 100 Mbps (CAT5)

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1113310 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB11 |
| Product key | ABNABA |
| GTIN | 4063151036737 |
| Weight per piece (including packing) | 92.3 g |
| Weight per piece (excluding packing) | 80.065 g |
| Customs tariff number | 85444210 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|---------------------|-------------------------|
| Product type | Data cable preassembled |
| Sensor type | PROFINET |
| Number of positions | 4 |
| Shielded | yes |
| Cable outlet | straight |

Insulation characteristics

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

Electrical properties

| | |
|---|----------|
| Rated voltage (III/2) | 72 V |
| Rated current | 1.75 A |
| Insulation resistance | > 1 TΩ |
| Contact resistance | < 20 mΩ |
| Transmission characteristics (category) | CAT5 |
| Transmission speed | 100 Mbps |

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 |

Dimensions

| | |
|--------|---------|
| Width | 13.8 mm |
| Height | 31.2 mm |
| Length | 34 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 | black |
| Insertion/withdrawal cycles | ≥ 750 |
| Degree of protection | IP20 |

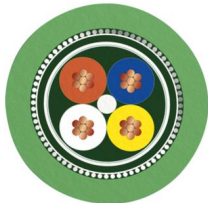
Connection 2

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

Cable/line

| | |
|--------------|--------|
| Cable length | 1.00 m |
|--------------|--------|

PROFINET PVC stranded CAT5 [93B]

| | |
|---------------------------------|---|
| Dimensional drawing |  |
| Shielded | yes |
| UL AWM Style | 21694 |
| Cable weight | 67 kg/km |
| Cable type | PROFINET PVC stranded CAT5 |
| Short symbol | 2YY(ST)CY |
| Cable type (abbreviation) | 93B |
| Signal type/category | PROFINET CAT5 (IEC 11801), 100 Mbps EtherCAT [®] CAT5 (IEC 11801), 100 Mbps |
| Cable structure | 1x4xAWG22/7, SF/TQ |
| External cable diameter | 6.50 mm ±0.2 mm |
| Outer sheath, material | PVC |
| External sheath, color | green RAL 6018 |
| Thickness, outer sheath | approx. 0.90 mm |
| Material, inner sheath | PVC |
| Conductor material | Tin-plated Cu litz wires |
| Conductor structure signal line | 7x 0.25 mm |
| AWG signal line | 22 |

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| | |
|---|--|
| Conductor cross section | 4x 0.34 mm ² |
| Material wire insulation | PE |
| Wire diameter incl. insulation | 1.55 mm |
| Single wire, color | white, yellow, blue, orange |
| Overall twist | Star quad |
| Shielding | Aluminum-coated foil, tinned copper braided shield |
| Optical shield covering | 85 % |
| Nominal voltage, cable | 600 V |
| Test voltage Core/Core | 2000 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 2000.00 V (50 Hz, 1 min.) |
| Cable insulation resistance | ≥ 500 MΩ*km |
| Coupling resistance | ≤ 20.00 mΩ/m (at 10 MHz) |
| Wave impedance | 100 Ω ±15 Ω (at 100 MHz) |
| Loop resistance | ≤ 120.00 Ω/km |
| Signal runtime | 5.3 ns/m |
| Signal speed | 0.66 c |
| Minimum bending radius, fixed installation | 3 x D |
| Minimum bending radius, flexible installation | 7 x D |
| Damping | 2.1 dB (with 1 MHz) |
| | 4 dB (at 4 MHz) |
| | 6.3 dB (at 10 MHz) |
| | 8 dB (at 16 MHz) |
| | 9 dB (at 20 MHz) |
| | 11.4 dB (at 31.25 MHz) |
| | 16.5 dB (at 62.5 MHz) |
| | 21.3 dB (at 100 MHz) |
| Near end crosstalk attenuation (NEXT) | 80 dB (with 1 MHz) |
| | 76 dB (at 4 MHz) |
| | 70 dB (at 10 MHz) |
| | 65 dB (at 16 MHz) |
| | 63 dB (at 20 MHz) |
| | 60 dB (at 31.25 MHz) |
| | 55 dB (at 62.5 MHz) |
| | 50 dB (at 100 MHz) |
| Resistance to oil | Resistant to oil to a limited extent |
| Flame resistance | according to UL 1685 (CSA FT 4) |
| Other resistance | UV resistant (According to UL 1581, Section 1200) |
| Ambient temperature (operation) | -40 °C ... 70 °C (Cable, flexible installation) |
| | -40 °C ... 70 °C (cable, fixed installation) |

Environmental and real-life conditions

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP20 |
|----------------------|------|

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

Standards and regulations

| | |
|--------------------------|-------------|
| Standards/specifications | IEC 60603-7 |
|--------------------------|-------------|

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Classifications

ECLASS

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

ETIM

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

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

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