

NBC-R4ACR/1,0-93B/R4ACR - Patch cable



1409002

<https://www.phoenixcontact.com/us/products/1409002>

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Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, 100 Mbps, CAT5, PROFINET, 1x4xAWG22/7, SF/TQ, green RAL 6018

PROFINET patch cable

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 1 Gbps (CAT5)

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1409002 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB11 |
| Product key | ABNABA |
| GTIN | 4046356857178 |
| Weight per piece (including packing) | 96.4 g |
| Weight per piece (excluding packing) | 74.34 g |
| Customs tariff number | 85444210 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|---------------------|--------------------------|
| Product type | Data cable preassembled |
| Product family | RJ45 INDUSTRIAL PN4 CAT5 |
| Number of positions | 4 |
| Connection profile | RJ45 8(4) |
| Number of slots | 1 |
| Shielded | yes |

Insulation characteristics

| | |
|----------------------|---|
| Overvoltage category | I |
| Degree of pollution | 1 |

Interfaces

| | |
|----------------------|--------------------------------------|
| Signal type/category | PROFINET CAT5 (IEC 11801), 100 Mbps |
| | EtherCAT® CAT5 (IEC 11801), 100 Mbps |

Signaling

| | |
|------------------------|----|
| Status display | no |
| Status display present | no |

Electrical properties

| | |
|---|-----------------------|
| Rated voltage (III/3) | 72 V (DC) |
| Rated current | 1.75 A |
| Nominal voltage U_N | 48 V |
| Nominal current I_N | 1 A |
| Transmission medium | Copper |
| Transmission speed | 100 Mbps |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |
| Transmission speed | 100 Mbps |

Mechanical properties

Mechanical data

| | |
|-------------------------------------|---------|
| Insertion/withdrawal cycles | ≥ 750 |
| Insertion force per signal contact | 50.00 N |
| Extraction force per signal contact | 30 N |

Material specifications

| | |
|--|-----|
| Flammability rating according to UL 94 | V2 |
| Outer sheath, material | PVC |

Connector

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Connection 1

| | |
|---------------------------------|---|
| Type | Plug angled RJ45 |
| Shielded | yes |
| Handle color | black |
| Material | CuSn (Contact) Ni/Au (Contact surface) PA (Contact carrier) PA (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 80 °C |

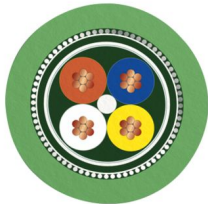
Connection 2

| | |
|---------------------------------|---|
| Type | Plug angled RJ45 |
| Shielded | yes |
| Handle color | black |
| Material | CuSn (Contact) Ni/Au (Contact surface) PA (Contact carrier) PA (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 80 °C |

Cable/line

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

PROFINET PVC stranded CAT5 [93B]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Note | Minimum bending radius 4 x D |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | PROFINET PVC stranded CAT5 [93B] |
| Conductor structure | 1x4xAWG22/7, SF/TQ |
| Conductor structure signal line | 7x 0.25 mm |
| AWG signal line | 22 |
| Conductor cross-section | 4x 0.34 mm ² |

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| | |
|---|---|
| Wire diameter incl. insulation | approx. 1.5 mm |
| External cable diameter | 6.50 mm |
| Outer sheath, material | PVC |
| External sheath, color | green RAL 6018 |
| Conductor material | Tin-plated Cu litz wires |
| Single wire, color | white, yellow, blue, orange |
| Wave impedance | 100 Ω \pm 15 Ω (at 1 ... 100 MHz) |
| Smallest bending radius, fixed installation | 30 mm |
| Smallest bending radius, movable installation | 60 mm |
| Ambient temperature (operation) | -25 °C ... 80 °C -25 °C ... 80 °C |

Environmental and real-life conditions

Ambient conditions

| | |
|---|-----------------------------------|
| Degree of protection | IP20 (RJ45 connector) IP20 |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 80 °C (RJ45 connector) |

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Drawings

Schematic diagram



Connector pin assignment plug RJ45

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Circuit diagram



Contact assignment of RJ45 plugs

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Classifications

ECLASS

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

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | 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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com