

NBC-R4AC/1,5-93B/R4AC - Patch cable



1424815

<https://www.phoenixcontact.com/us/products/1424815>

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Patch cable, degree of protection: IP20, cable length: 1.5 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET, 1x4xAWG22/7, SF/TQ, green RAL 6018

PROFINET patch cable

Your advantages

- Perfect for industrial applications
- Perfect for office, building, and protected industrial applications (e.g., in control cabinets)
- Compact angle

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1424815 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | ABNABA |
| GTIN | 4055626381145 |
| Weight per piece (including packing) | 125.6 g |
| Weight per piece (excluding packing) | 108.896 g |
| Country of origin | PL |

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Technical data

Product properties

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

Insulation characteristics

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

Signaling

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

Electrical properties

| | |
|---|-----------------------|
| Rated voltage (III/3) | 72 V (DC) |
| 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 | 30.00 N |
| Extraction force per signal contact | 50 N |

Material specifications

| | |
|--|--------|
| Flammability rating according to UL 94 | V2 |
| Housing material | PA 6.6 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Outer sheath, material | PVC |

Connector

Connection 1

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| | |
|---------------------------------|---|
| Type | Plug straight 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 |

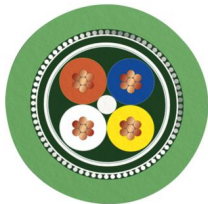
Connection 2

| | |
|---------------------------------|---|
| Type | Plug straight 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 | 1.50 m |
|--------------|--------|

PROFINET PVC stranded CAT5 [93B]

| | |
|--------------------------------|--|
| Dimensional drawing |  |
| UL AWM Style | 21695 (80 °C / 600 V) |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | PROFINET PVC stranded CAT5 [93B] |
| Conductor structure | 1x4xAWG22/7, SF/TQ |
| AWG signal line | 22 |
| Conductor cross-section | 4x 0.34 mm ² |
| Wire diameter incl. insulation | 1.5 mm ±0.1 mm |
| External cable diameter | 6.50 mm ±0.2 mm |
| Outer sheath, material | PVC |

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| | |
|---|--|
| External sheath, color | green RAL 6018 |
| Conductor material | Tin-plated Cu litz wires |
| Material wire insulation | PE |
| Single wire, color | white, yellow, blue, orange |
| Overall twist | Star quad |
| Optical shield covering | 85 % |
| Insulation resistance | $\geq 5 \text{ G}\Omega \cdot \text{km}$ |
| Loop resistance | $\leq 120.00 \text{ }\Omega/\text{km}$ |
| Wave impedance | $100 \text{ }\Omega \pm 5 \text{ }\Omega$ (at 100 MHz) |
| Nominal voltage, cable | $\leq 600 \text{ V}$ |
| Test voltage Core/Core | 2000 V ((50 Hz/1 min)) |
| Test voltage Core/Shield | 2000.00 V ((50 Hz/1 min)) |
| Minimum bending radius, fixed installation | 4 x D |
| Minimum bending radius, flexible installation | 8 x D |
| Flame resistance | UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1) UL 1685 (CSA FT 4) UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2) |
| Resistance to oil | OIL RES I according to UL 2256 |
| Other resistance | UV resistant (according to UL 1581, Section 1200) |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) -10 °C ... 70 °C (Cable, flexible installation) |

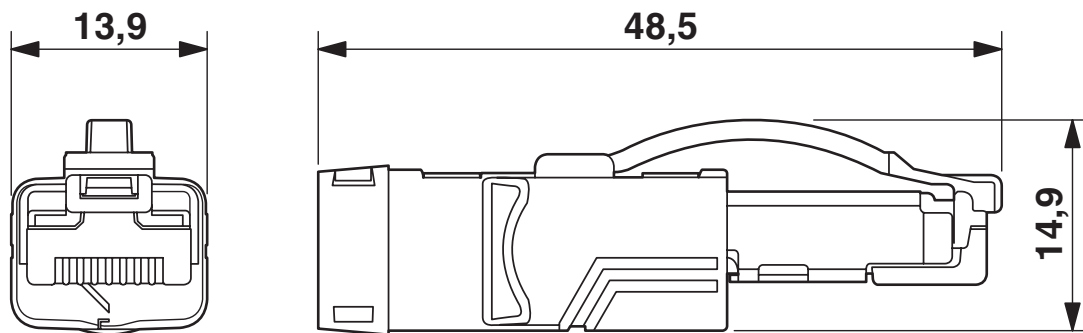
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Drawings

Dimensional drawing



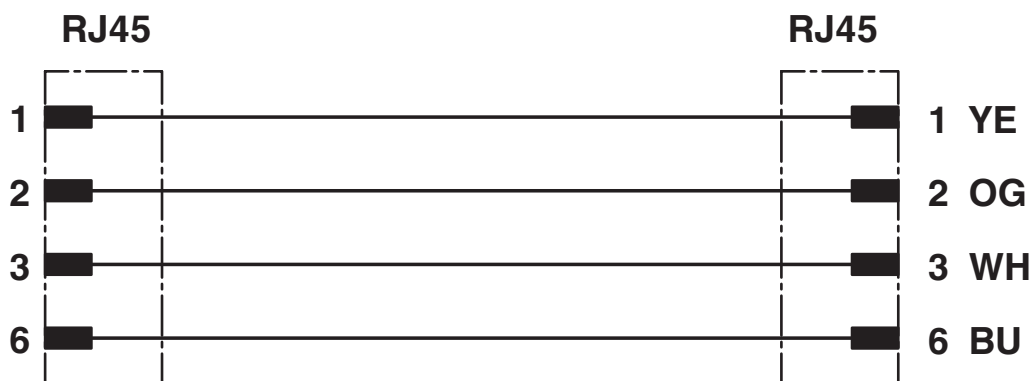
RJ45 connector, IP20

Schematic diagram



Connector pin assignment plug RJ45

Circuit diagram



Contact assignment of RJ45 plugs

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Approvals

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EAC

Approval ID: 19060508

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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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