

NBC-R4ACS/3,0-94F/R4ACS - Patch cable



1112907

<https://www.phoenixcontact.com/us/products/1112907>

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Patch cable, RJ45/IP20 straight on RJ45/IP20 straight, cable length: 3 m, number of positions: 8, 10 Gbps, CAT6_A, connection cross section: AWG 26- 26, Ethernet, 4x2xAWG26/7; S/FTP, water blue RAL 5021

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++
- Resistant to shock and vibrations, thanks to robust molding
- High-speed data transmission with up to 1 Gbps (CAT5)
- Future-proof high-speed data transmission with up to 10 Gbps (CAT6_A)

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1112907 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB11 |
| Product key | ABNABF |
| GTIN | 4063151033897 |
| Weight per piece (including packing) | 162.8 g |
| Weight per piece (excluding packing) | 153.133 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 IE8 CAT6A |
| Sensor type | Ethernet |
| Number of positions | 8 |
| Shielded | yes |

Electrical properties

| | |
|---|-------------------|
| Rated voltage (III/2) | 72 V |
| Rated current | 1.5 A |
| Insulation resistance | > 1 TΩ |
| Contact resistance | < 20 mΩ |
| Transmission speed | 10 Gbps |
| Transmission characteristics (category) | CAT6 _A |
| Transmission speed | 10 Gbps |

Mechanical properties

Mechanical data

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

Material specifications

| | |
|------------------------|--------------|
| Outer sheath, material | PUR |
| Conductor material | Copper, bare |

Dimensions

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

Connector

Connection 1

| | |
|-----------------------------|---|
| Type | RJ45 Plug, straight, 8-position |
| Number of positions | 8 |
| Signal type/category | Ethernet CAT6 _A (IEC 11801), 10 Gbps |
| Insertion/withdrawal cycles | ≥ 750 |
| Insertion force | 50 N (per signal contact) |
| Withdrawal force | 30 N (per signal contact) |
| Overshoot category | I |
| Degree of pollution | 2 |
| Material Contact | CuSn6 |

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| | |
|--|------------------|
| Material Contact surface | Ni/Au |
| Material Contact carrier | PC |
| Material Housing | PP |
| Color (Housing) | black |
| Flammability rating according to UL 94 | V2 |
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 85 °C |

Connection 2

| | |
|--|---|
| Type | RJ45 Plug, straight, 8-position |
| Number of positions | 8 |
| Signal type/category | Ethernet CAT6 _A (IEC 11801), 10 Gbps |
| Insertion/withdrawal cycles | ≥ 750 |
| Insertion force | 50 N (per signal contact) |
| Withdrawal force | 30 N (per signal contact) |
| Ovvoltage category | I |
| Degree of pollution | 2 |
| Material Contact | CuSn6 |
| Material Contact surface | Ni/Au |
| Material Contact carrier | PC |
| Material Housing | PP |
| Color (Housing) | black |
| Flammability rating according to UL 94 | V2 |
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 85 °C |

Cable/line

| | |
|-------------------------|----------------------------|
| Cable length | 3.00 m |
| Ethernet 10 Gbit [94F] | |
| Dimensional drawing | |
| UL AWM Style | 21238 (80 °C / 600 V) |
| Number of positions | 8 |
| Shielded | yes |
| Cable type | Ethernet 10 Gbit [94F] |
| Conductor structure | 4x2xAWG26/7; S/FTP |
| AWG signal line | 26 |
| Conductor cross section | 4x 2x 0.14 mm ² |

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| | |
|---|---|
| Wire diameter incl. insulation | 1 mm ± 0.05 mm |
| External cable diameter | 6.40 mm ± 0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | water blue RAL 5021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | Foamed PE |
| Single wire, color | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown |
| Twisted pairs | 2 cores to the pair |
| Overall twist | 4 pairs for core |
| Optical shield covering | 70 % |
| Insulation resistance | $\geq 500 \text{ M}\Omega \cdot \text{km}$ |
| Loop resistance | $\leq 290.00 \text{ }\Omega/\text{km}$ |
| Wave impedance | 100 $\Omega \pm 5 \text{ }\Omega$ (at 100 MHz) |
| Nominal voltage, cable | $\leq 100 \text{ V}$ |
| 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 |
| Smallest bending radius, fixed installation | 26 mm |
| Smallest bending radius, movable installation | 51 mm |
| Halogen-free | according to IEC 60754-1 |
| Flame resistance | according to IEC 60332-1-2 in accordance with UN ECE-R 118.03 according to CSA C 22.2 No. 210-FT1 |
| Resistance to oil | in accordance with DIN EN 60811-404 |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) -20 °C ... 80 °C (Cable, flexible installation) |

Standards and regulations

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

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Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

UNSPSC

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

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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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