# NBC-R4ACS/0,5-94F/R4ACS - Patch cable

1113823

https://www.phoenixcontact.com/us/products/1113823

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Patch cable, Ethernet CAT6$_A$ (10 Gbps) CAT6$_A$, 8-position, PUR halogen-free, water blue RAL 5021, Plug straight RJ45 / IP20, on Plug straight RJ45 / IP20, cable length: 0.5 m

## 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<sub>A</sub>)

ELEKTROGERÄTE RÜCKNAHME

## Commercial data

| | |
|---|---|
| Item number | 1113823 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB11 |
| Product key | ABNABF |
| GTIN | 4063151037017 |
| Weight per piece (including packing) | 49.4 g |
| Weight per piece (excluding packing) | 41.783 g |

| | |
|---|---|
| Customs tariff number | 85444210 |
| Country of origin | PL |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Data cable preassembled |
| Product family | RJ45 INDUSTRIAL IE8 CAT6A |
| Number of positions | 8 |
| Shielded | yes |

### Interfaces

| | |
|---|---|
| Signal type/category | Ethernet $CAT6_A$ (IEC 11801), 10 Gbps |

### Electrical properties

| | |
|---|---|
| Rated voltage (III/2) | 72 V |
| Rated current | 1.5 A |
| Insulation resistance | > 1 TΩ |
| Transmission speed | 10 Gbps |
| Transmission characteristics (category) | $CAT6_A$ |

### Material specifications

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

### Dimensions

| | |
|---|---|
| Width | 14 mm |
| Height | 14.8 mm |
| Length | 44.2 mm |

### Connector

Connection 1

| | |
|---|---|
| Type | RJ45 Plug, straight, 8-position, Ethernet |
| 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) |
| Overvoltage 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 |

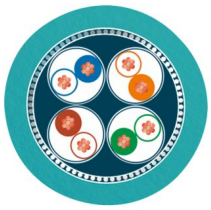
Connection 2

| | |
|---|---|
| Type | RJ45 Plug, straight, 8-position, Ethernet |
| 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) |
| Overvoltage 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 | 0.5 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 mm² |
| 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 | ≥ 500 MΩ*km |
| Loop resistance | ≤ 290.00 Ω/km |
| Wave impedance | 100 Ω ±5 Ω (at 100 MHz) |
| Nominal voltage, cable | ≤ 100 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 |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1113823

**UL Listed**
Approval ID: E335024-V1S7

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 57 V | 1.75 A | - | - |

**cUL Listed**
Approval ID: E335024-V1S7

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 57 V | 1.75 A | - | - |

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002599 |

### UNSPSC

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

## 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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 10.139 kg CO2e |


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