

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



1112911

<https://www.phoenixcontact.com/us/products/1112911>

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Patch cable, RJ45/IP20 straight on RJ45/IP20 straight, cable length: 0.3 m, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, 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<sub>A</sub>)



## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1112911       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB11          |
| Product key                          | ABNABF        |
| GTIN                                 | 4063151034160 |
| Weight per piece (including packing) | 40.6 g        |
| Weight per piece (excluding packing) | 32.875 g      |

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|                       |          |
|-----------------------|----------|
| 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 |
| Number of positions | 8                         |
| Shielded            | yes                       |

### Interfaces

|                      |   |
|----------------------|---|
| Signal type/category | Ethernet CAT6 <sub>A</sub> (IEC 11801), 10 Gbps |
|----------------------|---|

### 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 <sub>A</sub> |
| 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 <sub>A</sub> (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   |

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|  |                  |
|--|------------------|
| 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 |

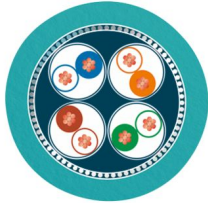
## Connection 2

|  |   |
|--|---|
| Type                                   | RJ45 Plug, straight, 8-position                 |
| Number of positions                    | 8   |
| Signal type/category                   | Ethernet CAT6 <sub>A</sub> (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 | 0.30 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   |

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|   |  |
|---|--|
| AWG signal line                               | 26   |
| Conductor cross-section                       | 4x 2x 0.14 mm <sup>2</sup>   |
| 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 |
|--------------------------|-------------|

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1112911>

|  <b>UL Listed</b><br>Approval ID: E335024-V1S7 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 57 V                  | 1.75 A                | -                 | -                           |

|  <b>cUL Listed</b><br>Approval ID: E335024-V1S7 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 57 V                  | 1.75 A                | -                 | -                           |

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## Classifications

### ECLASS

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

### 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |              |
|---------|--------------|
| CO2e kg | 9.76 kg CO2e |
|---------|--------------|

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