# NBC-R4ACS/2,0-93K/R4ACS - Patch cable

1112929

https://www.phoenixcontact.com/us/products/1112929

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Patch cable, PROFINET CAT5 (100 Mbps), 4-position, PVC/PVC, signal red RAL 3020, Plug straight RJ45 / IP20, on Plug straight RJ45 / IP20, cable length: 2 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 100 Mbps (CAT5)

ELEKTROGERÄTE RÜCKNAHME

## Commercial data

| | |
|---|---|
| Item number | 1112929 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB11 |
| Product key | ABNABA |
| GTIN | 4063151034801 |
| Weight per piece (including packing) | 160 g |
| Weight per piece (excluding packing) | 156.981 g |
| Customs tariff number | 85444210 |

| | |
|---|---|
| Country of origin | PL |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Data cable preassembled |
| Product family | RJ45 INDUSTRIAL PN4 CAT5 |
| Number of positions | 4 |
| Shielded | yes |

### Interfaces

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

### Electrical properties

| | |
|---|---|
| Rated voltage (III/2) | 72 V |
| Rated current | 1.75 A |
| Insulation resistance | > 1 TΩ |
| Transmission speed | 100 Mbps |
| Transmission characteristics (category) | CAT5 |

### Dimensions

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

### Connector

Connection 1

| | |
|---|---|
| Type | RJ45 Plug, straight, 4-position, PROFINET, EtherCAT® |
| Number of positions | 4 |
| Signal type/category | PROFINET CAT5 (IEC 11801), 100 Mbps |
| | EtherCAT®, 100 Mbps |
| 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, 4-position, PROFINET, EtherCAT® |
| Number of positions | 4 |
| Signal type/category | PROFINET CAT5 (IEC 11801), 100 Mbps |
| | EtherCAT®, 100 Mbps |
| 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 | 2 m |

Sercos III [93K]

| | |
|---|---|
| Dimensional drawing |  |
| Cable weight | 68 kg/km |
| UL AWM Style | 21694 (60 °C / 600 V) |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | Sercos III [93K] |
| Conductor structure | 1x4xAWG22/7, SF/TQ |
| Signal runtime | 5.3 ns/m |
| Conductor structure signal line | 7x 0.25 mm |
| AWG signal line | 22 |
| Conductor cross-section | 4x 0.34 mm² |
| Wire diameter incl. insulation | approx. 1.55 mm |
| External cable diameter | 6.50 mm ±0.2 mm |
| Outer sheath, material | PVC |
| External sheath, color | signal red RAL 3020 |

| | |
|---|---|
| Conductor material | Tin-plated Cu litz wires |
| Material wire insulation | PE |
| Single wire, color | white, yellow, blue, orange |
| Thickness, outer sheath | approx. 0.90 mm |
| Type of pair shielding | Aluminum-lined polyester foil |
| Overall twist | Star quad |
| Max. conductor resistance | ≤ 120 Ω/km |
| Insulation resistance | ≥ 0.5 GΩ*km |
| Coupling resistance | ≤ 20.00 mΩ/m (at 10 Hz) |
| Wave impedance | 100 Ω ±15 Ω (at 100 MHz) |
| Nominal voltage, cable | 600 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 | 3 x D |
| Minimum bending radius, flexible installation | 7 x D |
| Smallest bending radius, fixed installation | 20 mm |
| Smallest bending radius, movable installation | 46 mm |
| Flame resistance | according to UL 1685 (CSA FT 4) |
| Resistance to oil | Resistant to oil to a limited extent |
| Other resistance | UV resistant (according to UL 1581, Section 1200) |
| Ambient temperature (operation) | -40 °C ... 70 °C (cable, fixed installation) |
| | -40 °C ... 70 °C (Cable, flexible installation) |
| Ambient temperature (installation) | -20 °C ... 60 °C |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 85 °C (RJ45 connector) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C (RJ45 connector) |

## Standards and regulations

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

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1112929

**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 | - | - |

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|---|---|---|---|---|
| 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 | 5.779 kg CO2e |


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