

# NBC-R4ACS/1,0-93B/R4ACR - Patch cable



1113290

<https://www.phoenixcontact.com/us/products/1113290>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Patch cable CAT5 (100 Mbps) (100 Mbps), 4-position, PVC/PVC, green RAL 6018, Plug straight RJ45 / IP20, on Plug right RJ45 / IP20, cable length: 1 m

## Your advantages

- Compact angle
- Perfect for industrial applications
- PVC cable for flexible installations
- 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)



## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1113290       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | ABNABA        |
| GTIN                                 | 4063151036522 |
| Weight per piece (including packing) | 91.2 g        |
| Weight per piece (excluding packing) | 82.62 g       |
| Country of origin                    | PL            |

# NBC-R4ACS/1,0-93B/R4ACR - Patch cable



1113290

<https://www.phoenixcontact.com/us/products/1113290>

## Technical data

### Product properties

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

### Electrical properties

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

### Material specifications

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | V2 |
|----------------------------------------|----|

### Dimensions

|        |         |
|--------|---------|
| Width  | 35 mm   |
| Height | 14.8 mm |
| Length | 35.3 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<br>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, right, 4-position, PROFINET, EtherCAT® |
| Number of positions | 4                                                 |

# NBC-R4ACS/1,0-93B/R4ACR - Patch cable



1113290

<https://www.phoenixcontact.com/us/products/1113290>

|                                        |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Signal type/category                   | PROFINET CAT5 (IEC 11801), 100 Mbps<br>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 | 1 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 mm²                                                                          |
| Wire diameter incl. insulation | 1.5 mm ±0.1 mm                                                                       |
| External cable diameter        | 6.50 mm ±0.2 mm                                                                      |
| Outer sheath, material         | PVC                                                                                  |
| 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 %                                                                                 |

# NBC-R4ACS/1,0-93B/R4ACR - Patch cable



1113290

<https://www.phoenixcontact.com/us/products/1113290>

|                                               |                                                          |
|-----------------------------------------------|----------------------------------------------------------|
| 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)          |

## Standards and regulations

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

# NBC-R4ACS/1,0-93B/R4ACR - Patch cable



1113290

<https://www.phoenixcontact.com/us/products/1113290>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1113290>

|                                                                                                                                 |                                |                                |                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  <b>UL Listed</b><br>Approval ID: E335024-V1S7 |                                |                                |                   |                               |
|                                                                                                                                 | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|                                                                                                                                 | keine                          |                                |                   |                               |
|                                                                                                                                 | 57 V                           | 1.75 A                         | -                 | -                             |

|                                                                                                                                  |                                |                                |                   |                               |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  <b>cUL Listed</b><br>Approval ID: E335024-V1S7 |                                |                                |                   |                               |
|                                                                                                                                  | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|                                                                                                                                  | keine                          |                                |                   |                               |
|                                                                                                                                  | 57 V                           | 1.75 A                         | -                 | -                             |

# NBC-R4ACS/1,0-93B/R4ACR - Patch cable



1113290

<https://www.phoenixcontact.com/us/products/1113290>

## Classifications

### ECLASS

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

### ETIM

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

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                                 | 4.768 kg CO2e                            |