

## Bus system cable - NBC-R4ACR/1,0-93B/R4ACR - 1409002

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's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Profinet patch cable, shielded, star-quad, 22 AWG stranded (7-wire), green, angled RJ45 male connector/IP20 to angled RJ45 male connector/IP20, length: 1.0 m

Profinet patch cable



### Key commercial data

|                      |          |
|----------------------|----------|
| Packing unit         | 1 pc     |
| Custom tariff number | 85444210 |
| Country of origin    | Poland   |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 1 m |
|-----------------|-----|

#### Ambient conditions

|                      |                       |
|----------------------|-----------------------|
| Degree of protection | IP20 (RJ45 connector) |
|----------------------|-----------------------|

#### General data

|                        |  |
|------------------------|--|
| Rated current at 40°C  | 1 A  |
| Rated voltage          | 50 V   |
| Number of positions    | 4  |
| Signal type/category   | PROFINET CAT5 (IEC 11801:2002), 100 Mbps<br>PROFINET CAT5e (TIA 568B:2001), 100 Mbps |
| Surge voltage category | I  |
| Pollution degree       | 1  |

#### Characteristics head 1

|  |                         |
|--|-------------------------|
| Head type                                | Plug angled RJ45 / IP20 |
| No. of positions (pin connector pattern) | 4 (8)                   |
| Color                                    | black                   |

## Bus system cable - NBC-R4ACR/1,0-93B/R4ACR - 1409002

### Technical data

#### Characteristics head 1

|                                 |                         |
|---------------------------------|-------------------------|
| Material (component)            | CuSn (Contact)          |
|                                 | Ni/Au (Contact surface) |
|                                 | PA (Contact carriers)   |
|                                 | PA (Housing)            |
| Insertion/withdrawal cycles     | ≥ 750                   |
| Ambient temperature (operation) | -25 °C ... 80 °C        |

#### Characteristics head 2

|  |                         |
|--|-------------------------|
| Head type                                | Plug angled RJ45 / IP20 |
| No. of positions (pin connector pattern) | 4 (8)                   |
| Color                                    | black                   |
| Material (component)                     | CuSn (Contact)          |
|  | Ni/Au (Contact surface) |
|  | PA (Contact carriers)   |
|  | PA (Housing)            |
| Insertion/withdrawal cycles              | ≥ 750                   |
| Ambient temperature (operation)          | -25 °C ... 80 °C        |

#### Cable

|                                    |                                |
|------------------------------------|--------------------------------|
| Signal type/category               | PROFINET CAT5 (IEC 11801:2002) |
|                                    | PROFINET CAT5e (TIA 568B:2001) |
| Cable structure                    | 1x4xAWG22/7; SF/TQ             |
| Conductor cross section            | 0.34 mm <sup>2</sup>           |
| AWG signal line                    | 22                             |
| Conductor structure signal line    | 7x 0.25 mm                     |
| Core diameter including insulation | approx. 1.5 mm                 |
| Wire colors                        | White, yellow, blue, orange    |
| External sheath, color             | Green RAL 6018                 |
| Outer sheath, material             | PVC                            |
| Conductor material                 | Tin-plated Cu litz wires       |
| Wave impedance                     | 100 Ω ±15 Ω (at 1 ... 100 MHz) |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |

# Bus system cable - NBC-R4ACR/1,0-93B/R4ACR - 1409002

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 7.0 | 27060308 |
| eCl@ss 8.0 | 27060308 |

### ETIM

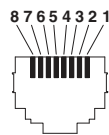
|          |          |
|----------|----------|
| ETIM 3.0 | EC001262 |
| ETIM 4.0 | EC002599 |
| ETIM 5.0 | EC002599 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 26121616 |
| UNSPSC 7.0901 | 26121616 |
| UNSPSC 11     | 26121604 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 26121616 |

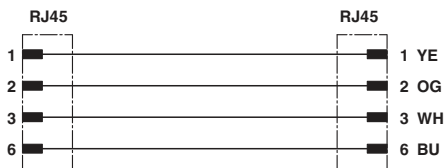
## Drawings

Schematic diagram



Connector pin assignment plug RJ45

Circuit diagram

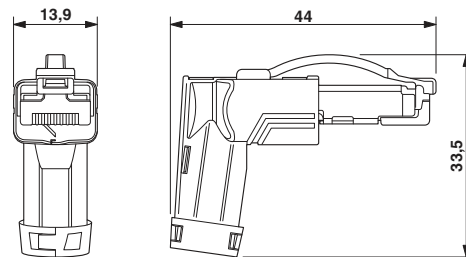


Contact assignment of RJ45 plugs

Cable cross section



Dimensioned drawing



RJ45 connector, IP20, angled

