

# VS-PNRJ45-PNRJ45-93B-3,5 - Patch cable



1406402

<https://www.phoenixcontact.com/us/products/1406402>

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Patch cable, degree of protection: IP20, cable length: 3.5 m, number of positions: 4, 100 Mbps, PROFINET, 1x4xAWG22/7, SF/TQ, green RAL 6018

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1406402       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB11          |
| Product key                          | ABNABA        |
| GTIN                                 | 4046356763448 |
| Weight per piece (including packing) | 256.2 g       |
| Weight per piece (excluding packing) | 249.685 g     |
| 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 PN4 CAT5 |
| Application         | Standard                 |
| Sensor type         | PROFINET                 |
| Number of positions | 4                        |
| Shielded            | yes                      |

### Insulation characteristics

|                      |   |
|----------------------|---|
| Overvoltage category | I |
|----------------------|---|

### Signaling

|                |    |
|----------------|----|
| Status display | no |
|----------------|----|

### Electrical properties

|                                         |           |
|-----------------------------------------|-----------|
| Rated voltage (III/3)                   | 72 V (DC) |
| Transmission medium                     | Copper    |
| Transmission speed                      | 100 Mbps  |
| Transmission characteristics (category) | CAT5      |
| Transmission speed                      | 100 Mbps  |

### Mechanical properties

#### Mechanical data

|                                     |         |
|-------------------------------------|---------|
| Insertion force per signal contact  | 50.00 N |
| Extraction force per signal contact | 30 N    |

### Connector

#### Connection 1

|                      |                    |
|----------------------|--------------------|
| Type                 | Plug straight RJ45 |
| Shielded             | yes                |
| Degree of protection | IP20               |

#### Connection 2

|                             |                    |
|-----------------------------|--------------------|
| Type                        | Plug straight RJ45 |
| Shielded                    | yes                |
| Insertion/withdrawal cycles | ≥ 750              |
| Degree of protection        | IP20               |

### Cable/line

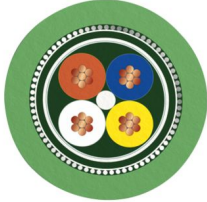
|              |        |
|--------------|--------|
| Cable length | 3.50 m |
|--------------|--------|

PROFINET PVC stranded CAT5 [93B]

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|                                               |                                                                                    |
|-----------------------------------------------|------------------------------------------------------------------------------------|
| Dimensional drawing                           |  |
| Note                                          | Minimum bending radius 4 x D                                                       |
| Number of positions                           | 4                                                                                  |
| Shielded                                      | yes                                                                                |
| Cable type                                    | PROFINET PVC stranded CAT5 [93B]                                                   |
| Conductor structure                           | 1x4xAWG22/7, SF/TQ                                                                 |
| Conductor structure signal line               | 7x 0.25 mm                                                                         |
| AWG signal line                               | 22                                                                                 |
| Conductor cross section                       | 4x 0.34 mm <sup>2</sup>                                                            |
| Wire diameter incl. insulation                | approx. 1.5 mm                                                                     |
| External cable diameter                       | 6.50 mm                                                                            |
| Outer sheath, material                        | PVC                                                                                |
| External sheath, color                        | green RAL 6018                                                                     |
| Conductor material                            | Tin-plated Cu litz wires                                                           |
| Single wire, color                            | white, yellow, blue, orange                                                        |
| Wave impedance                                | 100 Ω ±15 Ω (at 1 ... 100 MHz)                                                     |
| Smallest bending radius, fixed installation   | 30 mm                                                                              |
| Smallest bending radius, movable installation | 60 mm                                                                              |
| Ambient temperature (operation)               | -25 °C ... 80 °C<br>-25 °C ... 80 °C                                               |

## Environmental and real-life conditions

### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP20 |
|----------------------|------|

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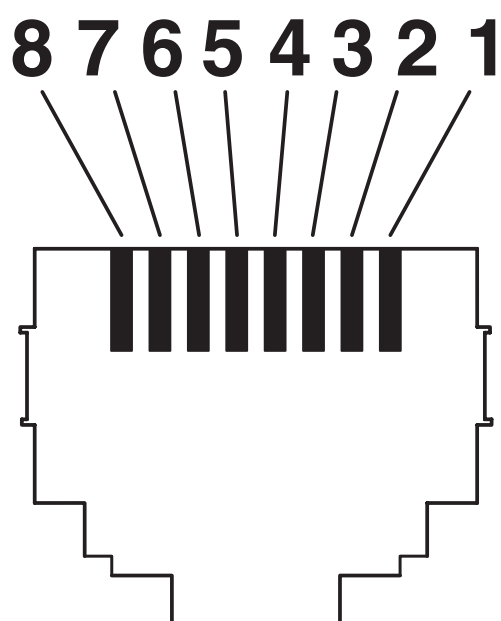
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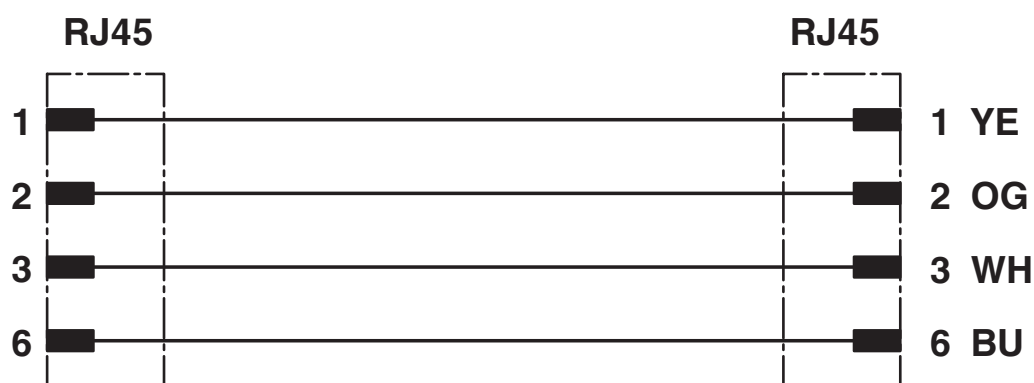


## Drawings

Schematic diagram



Circuit diagram



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## Approvals

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**EAC**

Approval ID: 19060508

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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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% |
|-------------------------------------|----------------------------|

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