# VS-PNRJ45-PNRJ45-93B-3,0 - Patch cable

1406401

https://www.phoenixcontact.com/us/products/1406401

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PROFINET patch cable

Patch cable, PROFINET (100 Mbps), 4-position, PVC, green RAL 6018, Plug straight RJ45 / IP20, on Plug straight RJ45 / IP20, cable length: 3 m

## Commercial data

| | |
|---|---|
| Item number | 1406401 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB11 |
| Product key | ABNABA |
| GTIN | 4046356763431 |
| Weight per piece (including packing) | 222.5 g |
| Weight per piece (excluding packing) | 206.956 g |
| Customs tariff number | 85444210 |
| Country of origin | PL |

# Technical data

## Product properties

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

### Insulation characteristics

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

## Interfaces

| | |
|---|---|
| Signal type/category | PROFINET, 100 Mbps |

## Signaling

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

## Electrical properties

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

## Connector

### Connection 1

| | |
|---|---|
| Type | Plug straight RJ45 / IP20 |
| Number of positions | 4 |
| Shielded | yes |
| Material | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | PA (Contact carrier) |
| | PA (Housing) |
| Degree of protection | IP20 |

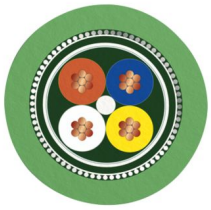
### Connection 2

| | |
|---|---|
| Type | Plug straight RJ45 / IP20 |
| Shielded | yes |
| Material | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | PA (Contact carrier) |
| | PA (Housing) |
| Insertion/withdrawal cycles | ≥ 750 |
| Degree of protection | IP20 |

## Cable/line

| | |
|---|---|
| Cable length | 3 m |

PROFINET PVC stranded CAT5 [93B]

| | |
|---|---|
| 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 mm² |
| 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 |
| | -25 °C ... 80 °C |

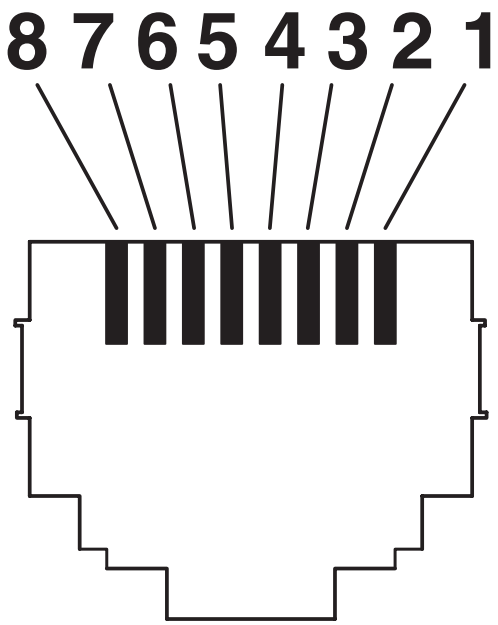
## Environmental and real-life conditions

Ambient conditions

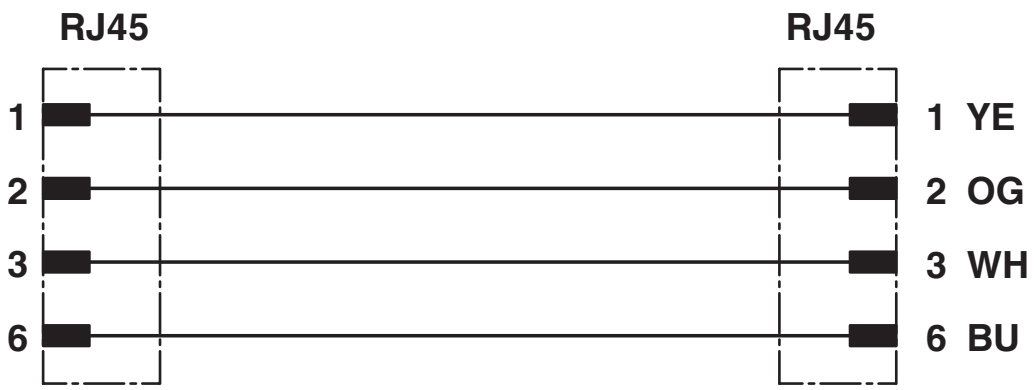
| | |
|---|---|
| Degree of protection | IP20 |

## Drawings

Schematic diagram




Circuit diagram



## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001855 |

### UNSPSC

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

## 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 | 5.205 kg CO2e |


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