# FL CAT5 TERMINAL BOX - Patch panels

2744610

https://www.phoenixcontact.com/gb/products/2744610

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Patch panel, one RJ45 jack to 4 screw connection terminal blocks (assignment 1, 2, 3, 6), CAT5e, 10/100 Mbps, DIN rail adapter, IP20, shield contacting on DIN rail

## Product description

Ethernet patch panels enable quick and easy connection between the field cabling and control cabinet cabling. The passive termination panels are a convenient alternative to the on-site assembly of RJ45 connectors.

## Your advantages

- Safe shield connection to ground potential
- Mounting on a DIN rail
- 10/100 Mbps
- CAT5e
- Shipbuilding approval in accordance with DNV GL

## Commercial data

| | |
|---|---|
| Item number | 2744610 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | DNC331 |
| Product key | DNC331 |
| Catalog page | Page 362 (C-6-2019) |
| GTIN | 4017918819477 |
| Weight per piece (including packing) | 52.086 g |
| Weight per piece (excluding packing) | 50.59 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |

## Technical data

### Product properties

| Product type | Patch panel |
|---|---|
| MTBF | 6702 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| | 2962 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day)) |

### Electrical properties

#### Supply

| Typical current consumption | < 1 A |
|---|---|

### Interfaces

Data: Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3

| Serial transmission speed | 10/100 Mbps |
|---|---|
| Connection method | Screw connection |
| No. of channels | 1 |
| Tightening torque | 0.22 Nm ... 0.25 Nm |
| Pin assignment | 1:1 |
| Transmission length | 100 m (including patch cables) |
| Conductor cross section flexible max. | 1 mm² |
| Conductor cross section flexible min. | 0.14 mm² |
| Conductor cross section, rigid max. | 1.5 mm² |
| Conductor cross section, rigid min. | 0.14 mm² |
| Single-wire/terminal point, rigid AWG max. | 16 |
| Single-wire/terminal point, rigid AWG min. | 26 |

Data: Ethernet interface, 10/100Base-T(X) in accordance with IEEE 802.3

| Connection method | RJ45 CAT5e |
|---|---|
| No. of channels | 1 |

### Dimensions
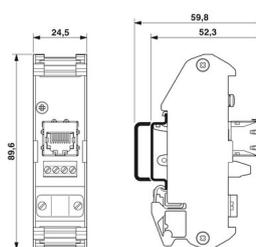
| Dimensional drawing |  |
|---|---|
| Width | 25 mm |
| Height | 90 mm |
| Depth | 52 mm |

## Material specifications

| Material | PVC / PA |
|---|---|

## Cable/line

| External cable diameter () | 6 mm ... 10 mm |
|---|---|
| Cable impedance | 100 Ω |

## Mechanical properties

### Mechanical data

| Insertion/withdrawal cycles | ≤ 2500 |
|---|---|

## Environmental and real-life conditions

### Ambient conditions

| Degree of protection | IP20 |
|---|---|
| Ambient temperature (operation) | -25 °C ... 70 °C |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |
| Ambient temperature (assembly) | -10 °C ... 70 °C |
| Permissible humidity (operation) | 25 % ... 95 % (non-condensing) |

## Approvals

### EAC

| Identification | EAC |
|---|---|

### Shipbuilding

| Identification | DNV GL |
|---|---|

### DNV GL data

| Temperature | B |
|---|---|
| Humidity | A |
| Vibration | A |
| EMC | B |
| Enclosure | Required protection according to the Rules shall be provided upon installation on board |

## Mounting

| Mounting type | DIN rail mounting |
|---|---|

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## Drawings

Circuit diagram

# FL CAT5 TERMINAL BOX - Patch panels
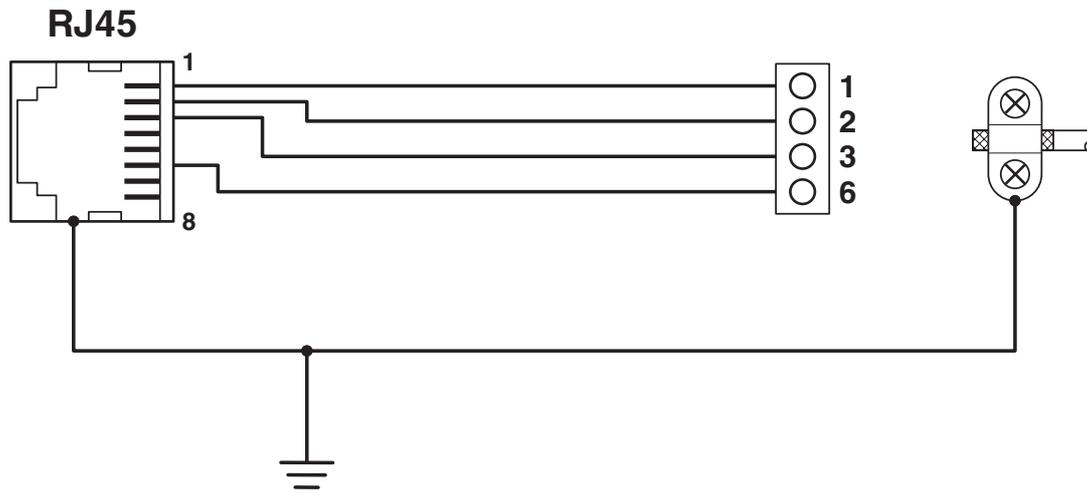
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## Dimensional drawing
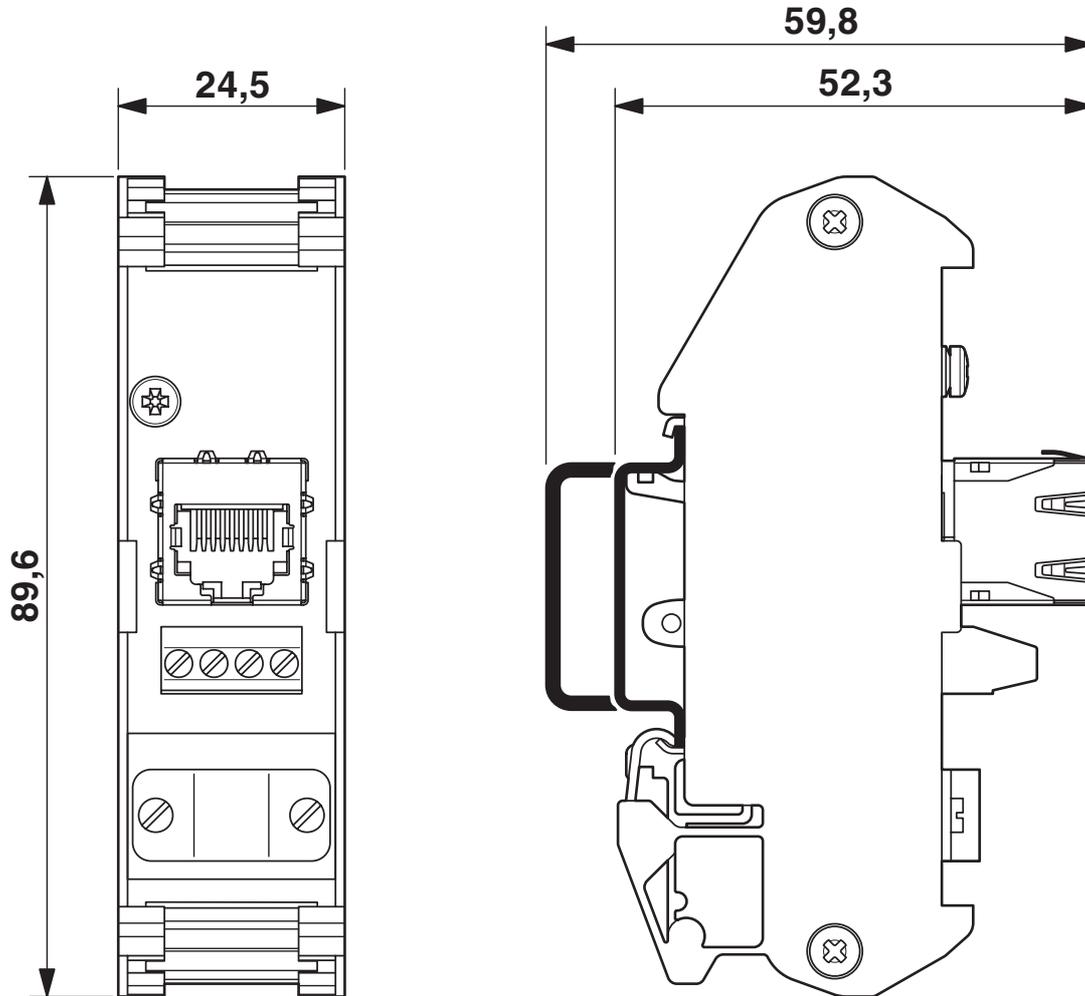


Dimensional drawing

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2744610

| | **EAC** |
|---|---|
| | Approval ID: RU D-DE.GB09.B.00312 |

| | **DNV GL** |
|---|---|
| | Approval ID: TAA00001KR |

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## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 19170112 |
| ECLASS-12.0 | 19170112 |
| ECLASS-13.0 | 19170112 |

### ETIM

| | |
|---|---|
| ETIM 8.0 | EC002697 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 43223300 |

## Environmental product compliance

| REACh SVHC | Lead 7439-92-1 |
|---|---|

| China RoHS | Environmentally Friendly Use Period = 50 years |
|---|---|
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

## Accessories

### FL CRIMPTOOL - Assembly tool

2744869

https://www.phoenixcontact.com/gb/products/2744869

Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45...,  for assembly on site

### SZF 0-0,4X2,5 - Screwdriver

1204504

https://www.phoenixcontact.com/gb/products/1204504

Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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## FL ISOLATOR  100-RJ/RJ - Network isolator

2313931

https://www.phoenixcontact.com/gb/products/2313931

Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 100 Mbps. Possible to connect two RJ45 plugs.

## FL ISOLATOR 1000-RJ/RJ - Network isolator

2313915

https://www.phoenixcontact.com/gb/products/2313915

Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 1 Gbps. Possible to connect two RJ45 plugs.

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## FL CAT5 PATCH 0,3 - Patch cable

2832250

https://www.phoenixcontact.com/gb/products/2832250

Patch cable, CAT5, assembled, 0.3 m

## FL CAT5 PATCH 0,5 - Patch cable

2832263

https://www.phoenixcontact.com/gb/products/2832263

Patch cable, CAT5, assembled, 0.5 m

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## FL CAT5 PATCH 1,0 - Patch cable

2832276

https://www.phoenixcontact.com/gb/products/2832276

Patch cable, CAT5, assembled, 1 m

## FL CAT5 PATCH 1,5 - Patch cable

2832221

https://www.phoenixcontact.com/gb/products/2832221

Patch cable, CAT5, assembled, 1.5 m

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## FL CAT5 PATCH 2,0 - Patch cable

2832289

https://www.phoenixcontact.com/gb/products/2832289

Patch cable, CAT5, assembled, 2 m

## FL CAT5 PATCH 3,0 - Patch cable

2832292

https://www.phoenixcontact.com/gb/products/2832292

Patch cable, CAT5, assembled, 3 m

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## VS-CABLE-STRIP-VARIO - Stripping tool

1657407

https://www.phoenixcontact.com/gb/products/1657407

Stripping tool, for the multi-level stripping of shielded cables

## NBC-R4AC/1,0-93B/R4AC - Patch cable

1408968

https://www.phoenixcontact.com/gb/products/1408968

Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

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## NBC-R4AC/2,0-93B/R4AC - Patch cable

1408969

https://www.phoenixcontact.com/gb/products/1408969

Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 4, 100 Mbps, CAT5, material: PA 6.6, PROFINET

## VS-PN-RJ45-5-Q/IP20 - RJ45 connector

1658435

https://www.phoenixcontact.com/gb/products/1658435

RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 4, 100 Mbps, CAT5, material: Plastic, connection method: Insulation displacement connection, cable outlet: straight, color: traffic grey A RAL 7042, PROFINET

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