# Patch panels - FL-PP-RJ45-SC

2901643

https://www.phoenixcontact.com/us/products/2901643

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Patch panel, one RJ45 jack to 8 screw connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, option of shield contacting to the DIN rail via jumpers

## 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

• CAT5e

• Mounting on a DIN rail

• 10/100/1000 Mbps

• Optional shield connection via jumpers

• Shipbuilding approval in accordance with DNV GL

• PoE-capable in accordance with IEEE 802.3bt, type 4

## Commercial Data

| | |
|---|---|
| Item number | 2901643 |
| Packing unit | 1 pc |
| Minimum order quantity | 10 pc |
| Sales Key | C19 |
| Product Key | DNC331 |
| Catalog Page | Page 363 (C-6-2019) |
| GTIN | 4046356623391 |
| Weight per Piece (including packing) | 60.5 g |
| Weight per Piece (excluding packing) | 58.08 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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## Technical Data

### Notes

Utilization restriction

| | |
|---|---|
| CCCex note | Use in potentially explosive areas is not permitted in China. |

### Product properties

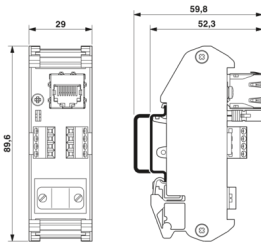| | |
|---|---|
| Product type | Patch panel |
| MTBF | 6702 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| | 2962 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day)) |

### Interfaces

Data: Ethernet interface, 10/100/1000Base-T(X) in accordance with IEEE 802.3

| | |
|---|---|
| Serial transmission speed | 10/100/1000 Mbps |
| Connection method | Screw connection |
| No. of channels | 1 |
| 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 solid max. | 1.5 mm² |
| Conductor cross section solid min. | 0.14 mm² |
| Conductor cross section AWG max. | 16 |
| Conductor cross section AWG min. | 26 |

Data: Ethernet interface, 10/100/1000Base-T(X) in accordance with IEEE 802.3

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

### Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Width | 29 mm |
| Height | 90 mm |
| Depth | 53 mm |

## Material specifications

| | |
|---|---|
| Color | green |
| Material | PVC / PA (Housing) |

## Connector

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

## Cable / line

### Cable structure

| | |
|---|---|
| External cable diameter | 6 mm ... 10 mm |

### Electrical properties

| | |
|---|---|
| Cable impedance | 100 Ω |

## 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) |

## Approval data

### ATEX

| | |
|---|---|
| Identification | ☐ II 3 G Ex nA IIC Gc U |
| Note | Please follow the special installation instructions in the documentation! |

### ATEX

| | |
|---|---|
| Identification | ISA-S71.04-1985 G3 Harsh Group A |

### ATEX

| | |
|---|---|
| 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
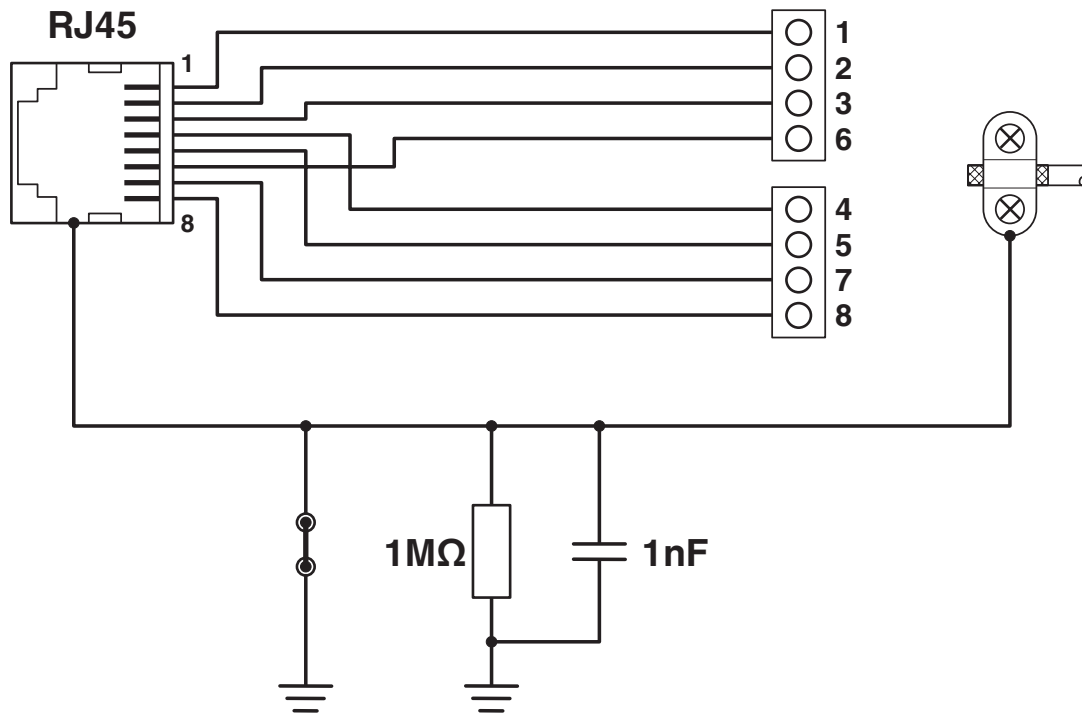


Circuit diagram

Dimensional drawing

**29**

**89,6**

**59,8**

**52,3**

Dimensional drawing
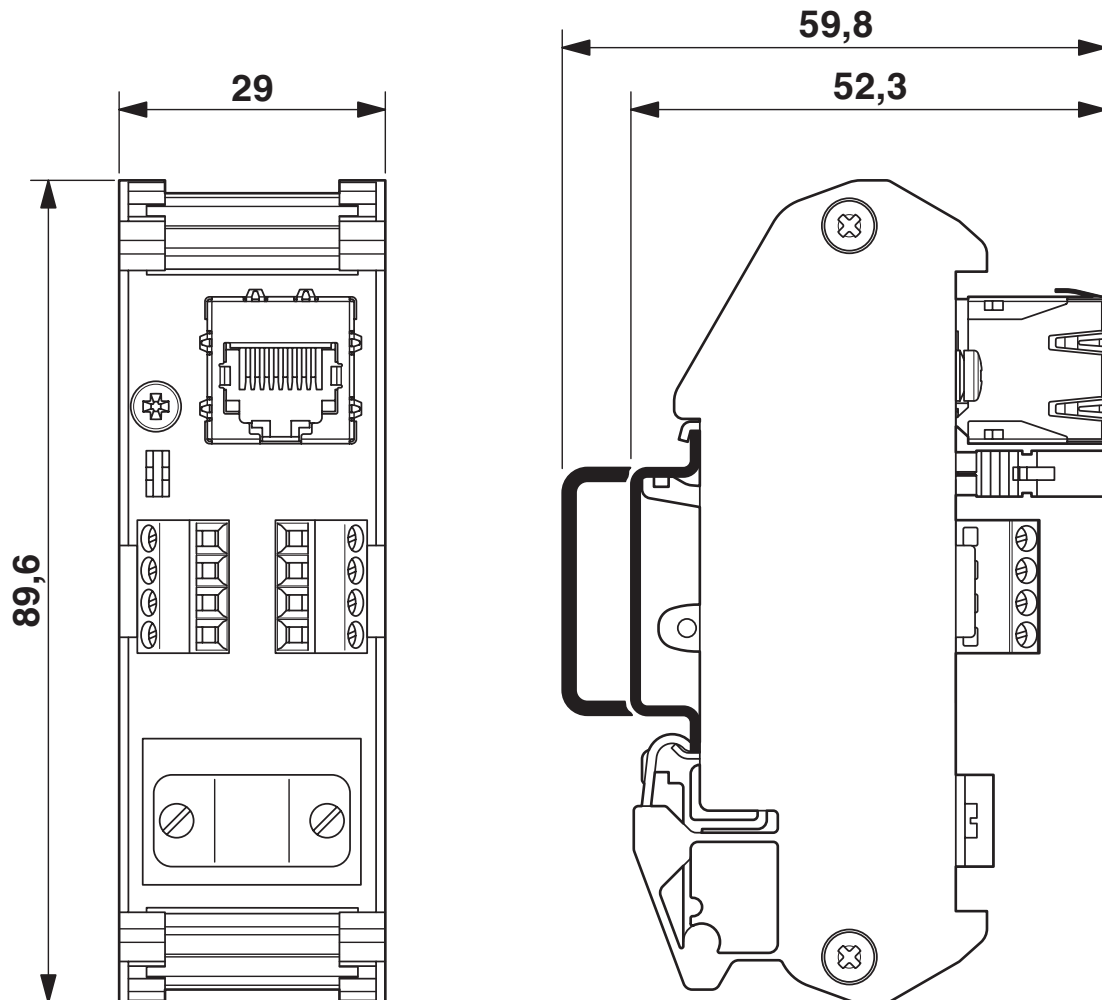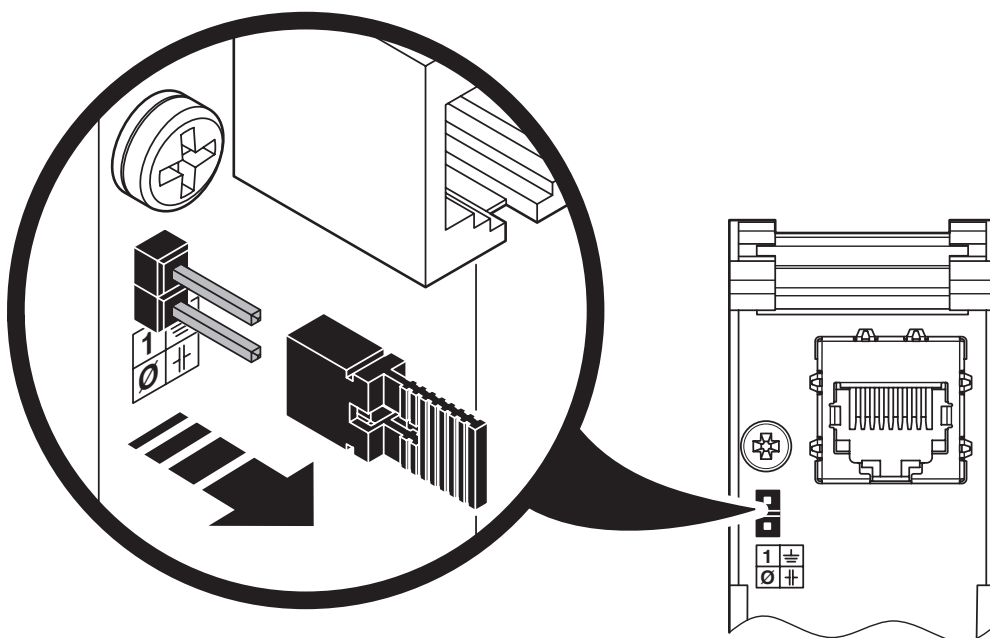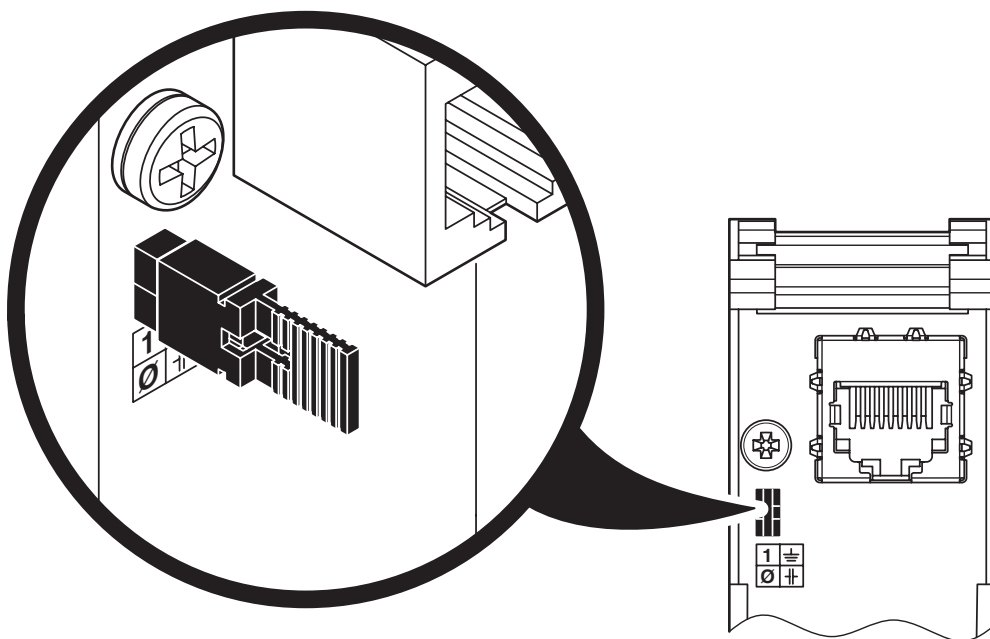
Schematic diagram



Shield connection to PE via RC element

Schematic diagram



Shield connection direct to PE

## Approvals

### DNV GL
Approval ID: TAA00001KR

| | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section mm$^2$ |
|---|---|---|---|---|
| | | | - | - |

### ATEX
Approval ID: PxCIF16ATEX2901642X

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-9.0 | 19170112 |
| ECLASS-10.0.1 | 19170112 |
| ECLASS-11.0 | 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

### Assembly tool

Assembly tool - FL CRIMPTOOL - 2744869

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

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

### Screwdriver

Screwdriver - SZF 0-0,4X2,5 - 1204504

https://www.phoenixcontact.com/us/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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## Network isolator

Network isolator - FL ISOLATOR  100-RJ/SC - 2313928

https://www.phoenixcontact.com/us/products/2313928

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. Connection using RJ45 and COMBICON plug-in screw terminal block.

## Network isolator

Network isolator - FL ISOLATOR  100-RJ/RJ - 2313931

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

## Network isolator

Network isolator - FL ISOLATOR 1000-RJ/RJ - 2313915
https://www.phoenixcontact.com/us/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.

## Network isolator

Network isolator - FL ISOLATOR  100-M12 - 2902985
https://www.phoenixcontact.com/us/products/2902985

Passive network isolator for electrical isolation in Ethernet networks. For the protection of Ethernet devices against potential differences of up to 4 kV. Can be used for transmission speeds of up to 100 Mbps. Ethernet connection via two M12 sockets (D-coded).
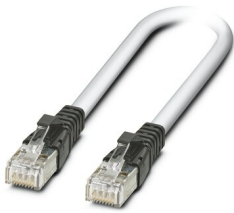
## Patch cable

Patch cable - FL CAT5 PATCH 0,3 - 2832250

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

Patch cable, CAT5, assembled, 0.3 m

## Patch cable

Patch cable - FL CAT5 PATCH 0,5 - 2832263

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

Patch cable, CAT5, assembled, 0.5 m

## Patch cable

Patch cable - FL CAT5 PATCH 1,0 - 2832276

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

Patch cable, CAT5, assembled, 1 m

## Patch cable

Patch cable - FL CAT5 PATCH 1,5 - 2832221

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

Patch cable, CAT5, assembled, 1.5 m

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## Patch cable

Patch cable - FL CAT5 PATCH 2,0 - 2832289

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

Patch cable, CAT5, assembled, 2 m

## Patch cable

Patch cable - FL CAT5 PATCH 3,0 - 2832292

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

Patch cable, CAT5, assembled, 3 m

## Patch cable

Patch cable - NBC-R4AC-R4AC-IE8A/.../... - 1411854

https://www.phoenixcontact.com/us/products/1411854
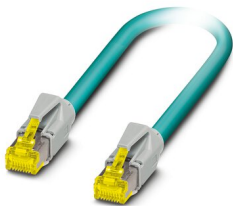
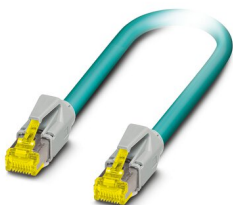Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, $CAT6_A$, cable outlet: straight, Ethernet

## Patch cable

Patch cable - NBC-R4AC/10G-R4AC/10G-94F/2,0 - 1408360

https://www.phoenixcontact.com/us/products/1408360

Patch cable, $CAT6_A$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m
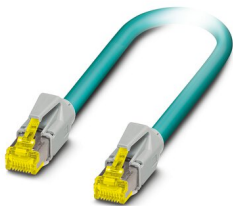
# Patch panels - FL-PP-RJ45-SC

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https://www.phoenixcontact.com/us/products/2901643

## Patch cable

Patch cable - NBC-R4AC/10G-R4AC/10G-94F/3,0 - 1408365

https://www.phoenixcontact.com/us/products/1408365

Patch cable, CAT6$_A$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

## Patch cable

Patch cable - NBC-R4AC/1,0-93B/R4AC - 1408968

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

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

## Patch cable

Patch cable - NBC-R4AC/2,0-93B/R4AC - 1408969

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

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

## RJ45 connector

RJ45 connector - VS-08-RJ45-10G/Q - 1419001

https://www.phoenixcontact.com/us/products/1419001

RJ45 connector, IP20, $CAT6_A$, 8-pos., with QUICKON fast connection technology, for 26 ... 24 AWG 1-wire and 7-wire conductors, color: black

## Stripping tool

Stripping tool - VS-CABLE-STRIP-VARIO - 1657407

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

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

## RJ45 connector

RJ45 connector - VS-08-RJ45-5-Q/IP20 - 1656725

https://www.phoenixcontact.com/us/products/1656725

RJ45 connector, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: PA, connection method: IDC fast connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042, Ethernet

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## RJ45 connector

RJ45 connector - VS-08-RJ45-5-Q/IP20 BK - 1658008

https://www.phoenixcontact.com/us/products/1658008

RJ45 connector, type: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: PA, connection method: IDC fast connection, connection cross section: AWG 26- 23, cable outlet: straight, color: black, Ethernet

## RJ45 connector

RJ45 connector - VS-PN-RJ45-5-Q/IP20 - 1658435

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

RJ45 connector, type: RJ45, degree of protection: IP20, number of positions: 4, 100 Mbps, CAT5 (IEC 11801:2002), material: PA, connection method: IDC fast connection, cable outlet: straight, color: traffic grey A RAL 7042, PROFINET

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https://www.phoenixcontact.com/us/products/2901643

## Patch panels

Patch panels - FL-PP-RJ45-SCC - 2901642

https://www.phoenixcontact.com/us/products/2901642

Patch panel, one RJ45 jack to 8 spring-force connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, option of shield contacting to the DIN rail via jumpers

## Patch panels

Patch panels - FL-PP-RJ45-LSA - 2901645

https://www.phoenixcontact.com/us/products/2901645

Patch panel, one RJ45 jack to 8 LSA connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, option of shield contacting to the DIN rail via bridges

## Patch panels

Patch panels - FL-PP-RJ45/RJ45 - 2901646

https://www.phoenixcontact.com/us/products/2901646

Patch panel, two RJ45 jacks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail adapter, IP20, option of shield contacting to the DIN rail via jumpers

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