


## PP-RJ DIN Rail Patch Panels

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 [perle.com/products/patch-panels/din-rail-pp-rj.shtml](https://www.perle.com/products/patch-panels/din-rail-pp-rj.shtml)

### Easily connect field and control cabinet cabling

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- 10/100/1000 Mbps
- RJ45 to RJ45, IDC, Push-in or Screw Terminal Block
- Wiring space covered with front panel cover
- Tool-free shield contacting with strain relief
- Compact design with quick and easy mounting
- Extended temperature range of -40°C to +75°C



Ethernet patch panels make the connection between field cabling and control cabinet cabling quick and easy. A **PP-RJ DIN Rail Patch Panel** is ideal for installation inside control panels and distribution cabinets where **one-to-one simplified connections** need to be made. A standard Ethernet patch cable is used between the patch panel and the control cabinet equipment, such as switches, PLCs and routers. Through ICD, Push-in, Screw or RJ45 connectors, field wiring is easily connected to the patch panel and protected inside a covered wiring space. The cable shielding is connected quickly and easily, without tools, while simultaneously ensuring strain relief. This simplifies installation of the field cable and saves a great deal of time during installation. PP-RJ DIN Rail Patch Panels provide the perfect mix of density and flexibility to decrease network risk and improve cable organization in scalable deployments with constricted spaces.

### Ideal applications for PP-RJ DIN Rail Patch Panels

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- Inside equipment cabinets with DIN rails
- Alongside Industrial Ethernet switches and RJ45 (Ethernet or Serial) PLCs
- Alongside other DIN Rail RJ45 (Ethernet or Serial) control devices
- Where growth from one to many ports is needed to support high-density installations. Multiple one port DIN Rail Patch Panels can installed side-by-side to grow, as required by the customer application.

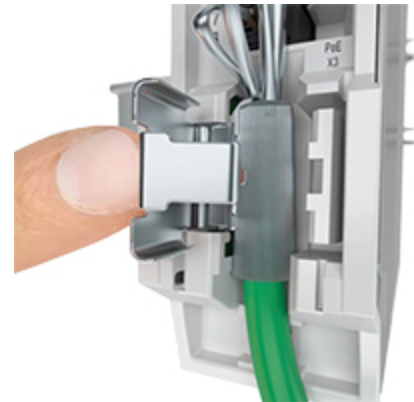
### Benefits of PP-RJ DIN Rail Patch Panels

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|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Multiple connection technologies | <p>For greater flexibility and time savings during installation you can choose between IDC, Push-in, Screw, and RJ45 connections.</p> <ul style="list-style-type: none"> <li>• <b>RJ45</b> – standard RJ45 Ethernet type connector</li> <li>• <b>IDC Terminal Block</b> – due to the tool used, it offers increased productivity and security</li> <li>• <b>Push-in Terminal Block</b> – wires can be pushed-in, no tool required</li> <li>• <b>Screw Terminal Block</b> – used for tight connections</li> </ul> |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                            |                                                                                                                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Covered cable wiring space | A hinged cover protects the wiring space on the field cable side with connection terminal blocks and shield contacting. This ensures a uniform installation pattern. In addition to this visual extra, the sensitive connection wires are protected from external influences. |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                       |                                                                                                                                                                                                                   |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quick tool-free shield connection with no loose parts | The cable shielding can be connected to the device quickly and easily without tools – with strain relief assured at the same time. Simply lay the cable in the shaft provided, close the shroud and, you're done. |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|                    |                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| DIN Rail Enclosure | Easily mount on a DIN rail or inside distribution boxes using native DIN Rail enclosure with grounding clip. No need for add-on brackets. |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|

|                    |                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Low profile design | The low-profile design minimizes cable bend radius in shallow enclosures where space is a premium as well as providing secure cable strain relief. |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|

|  | PP-RJ-<br>SCC | PP-RJ-<br>SC | PP-RJ-<br>RJ |
|--|---------------|--------------|--------------|
|  | 27030198      | 27030188     | 27030158     |

### Serial interface

|             |                                                                   |
|-------------|-------------------------------------------------------------------|
| Interface 1 | Ethernet interface, 10/100/1000Base-T(X) according to IEEE 802.3u |
|-------------|-------------------------------------------------------------------|

| Connection method                     | IDC connection                                                                                          | Push-in connection  | Screw terminal block | RJ45 socket |
|---------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------|----------------------|-------------|
| Transmission length                   | 100 m (including patch cables)                                                                          |                     |                      |             |
| Conductor cross section solid min.    | 0.14 mm <sup>2</sup>                                                                                    | 0.2 mm <sup>2</sup> | 0.14 mm <sup>2</sup> |             |
| Conductor cross section solid max.    | 0.34 mm <sup>2</sup>                                                                                    | 1.5 mm <sup>2</sup> |                      |             |
| Conductor cross section flexible min. | 0.14 mm <sup>2</sup>                                                                                    | 0.2 mm <sup>2</sup> | 0.14 mm <sup>2</sup> |             |
| Conductor cross section flexible max. | 0.34 mm <sup>2</sup>                                                                                    | 1.5 mm <sup>2</sup> |                      |             |
| Conductor cross section AWG min.      | 26                                                                                                      |                     | 28                   |             |
| Conductor cross section AWG max.      | 22                                                                                                      | 16                  |                      |             |
| Wire diameter incl. insulation        | 1.6 mm (Terminal block is tested with PVC insulation - other insulation materials available on request) |                     |                      |             |
| Pin assignment                        | 1:1                                                                                                     |                     |                      |             |
| Serial transmission speed             | 10/100/1000 Mbps                                                                                        |                     |                      |             |
| Output nominal voltage                | < 60 V (ATEX approval)                                                                                  |                     |                      |             |
|                                       | < 57 V DC (With UL approval)                                                                            |                     |                      |             |
| Maximum output current                | 725 mA (Per channel)                                                                                    |                     |                      |             |

|                      |                                                                   |      |  |
|----------------------|-------------------------------------------------------------------|------|--|
| Maximum output power | 60 W                                                              |      |  |
| Interface 2          | Ethernet interface, 10/100/1000Base-T(X) according to IEEE 802.3u |      |  |
| Connection method    | RJ45 CAT5e                                                        |      |  |
| Stripping length     | 8 mm                                                              | 5 mm |  |
| Torque               | 0.22 Nm ... 0.25 Nm                                               |      |  |

### Ambient conditions

|                                         |                                                                                   |  |  |
|-----------------------------------------|-----------------------------------------------------------------------------------|--|--|
| Ambient temperature (operation)         | -40°C ... 75°C                                                                    |  |  |
| Ambient temperature (storage/transport) | -40°C ... 85°C                                                                    |  |  |
| Permissible humidity (operation)        | 10 % ... 95 % (non-condensing)                                                    |  |  |
| Altitude                                | 5000 m (For restrictions see manufacturer's declaration) / 2000 m (ATEX approval) |  |  |
| Degree of protection                    | IP20 (Manufacturer's declaration)                                                 |  |  |

### General

|                     |              |         |         |
|---------------------|--------------|---------|---------|
| Net weight          | 104.1 g      | 124.2 g | 103.2 g |
| Housing material    | Plastic      |         |         |
| Color               | Gray         |         |         |
| MTTF                | 105699 Years |         |         |
| Degree of pollution | 2            |         |         |

|                      |                                                |                                                                                                                               |
|----------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Overvoltage category | II                                             |                                                                                                                               |
| Conformance          | CE-compliant                                   |                                                                                                                               |
| ATEX                 | <input type="checkbox"/> II 3 G Ex nA IIC Gc U | <input type="checkbox"/> II 3 G Ex nA IIC Gc U<br>(Please follow the special installation instructions in the documentation!) |

|            |                                                       |
|------------|-------------------------------------------------------|
| UL, USA    | UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4                  |
| UL, Canada | CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16 |

### Standards and Regulations

|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| Type of test             | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6  |
| Test result              | 10 Hz ... 57 Hz, amplitude $\pm 3.5$ mm, 57 Hz ... 150 Hz, 5g |
| Type of test             | Shock in acc. with EN 60068-2-27/IEC 60068-2-27               |
| Test result              | 30g for 11 ms, three shocks in each spatial direction         |
| Type of test             | Continuous shock according to EN 60068-2-27/IEC 60068-2-27    |
| Test result              | 10g for 16 ms, 1000 shocks in each spatial direction          |
| Rated insulation voltage | 85 V DC                                                       |
| Conformance              | CE-compliant                                                  |
| ATEX                     | <input type="checkbox"/> II 3 G Ex nA IIC Gc U                |
| UL, USA                  | UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4                          |
| UL, Canada               | CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16         |
| Noxious gas test         | ISA-S71.04-1985 G3 Harsh Group A                              |

### Dimensions

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|         |                 |
|---------|-----------------|
| Caption | Compact housing |
|---------|-----------------|

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|       |         |
|-------|---------|
| Width | 23.8 mm |
|-------|---------|

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|        |          |
|--------|----------|
| Height | 101.3 mm |
|--------|----------|

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|       |       |
|-------|-------|
| Depth | 50 mm |
|-------|-------|

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### Approvals

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- cULus Listed
  - cUL Listed
- 

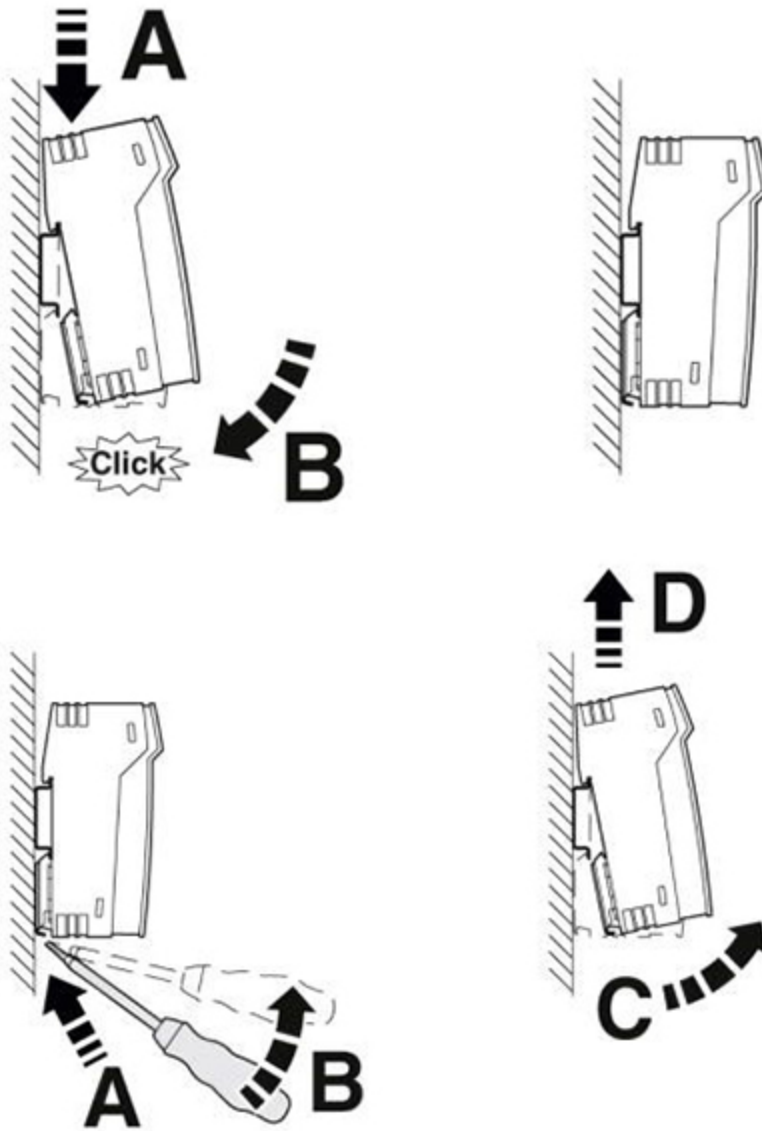
### Environmental Product Compliance

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|            |                                                            |                                                |                                                                     |
|------------|------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------|
| China RoHS | Environmentally friendly use period:<br>unlimited = EFUP-e | Environmentally<br>Friendly Use<br>Period = 50 | Environmentally<br>friendly use<br>period:<br>unlimited =<br>EFUP-e |
|------------|------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------|

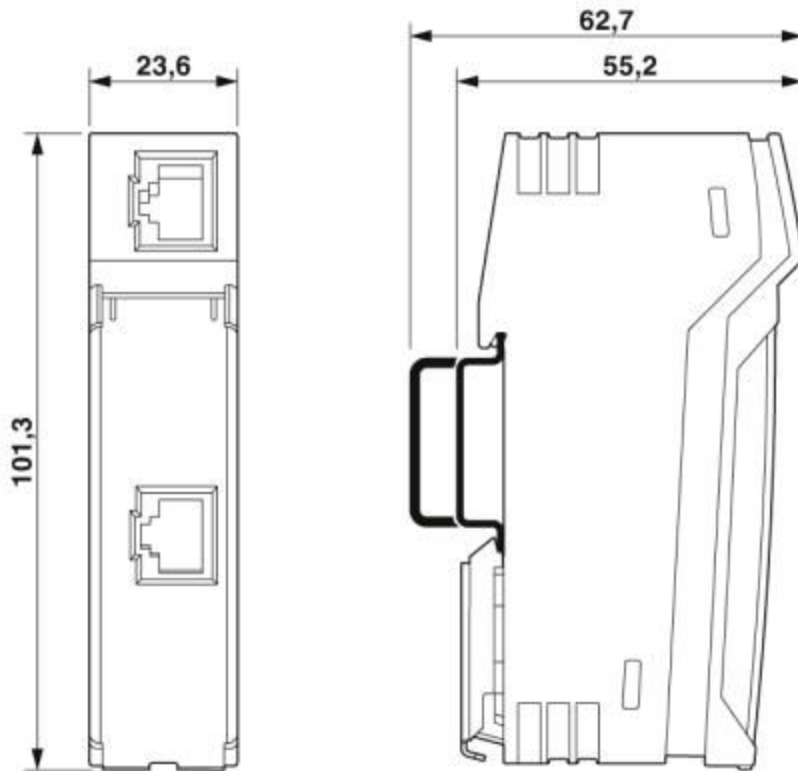
### Easily Mount your Patch Panel on a DIN Rail

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PP-RJ-RJ Patch Panel Dimensional drawing of Compact housing

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**Two RJ45 Sockets**

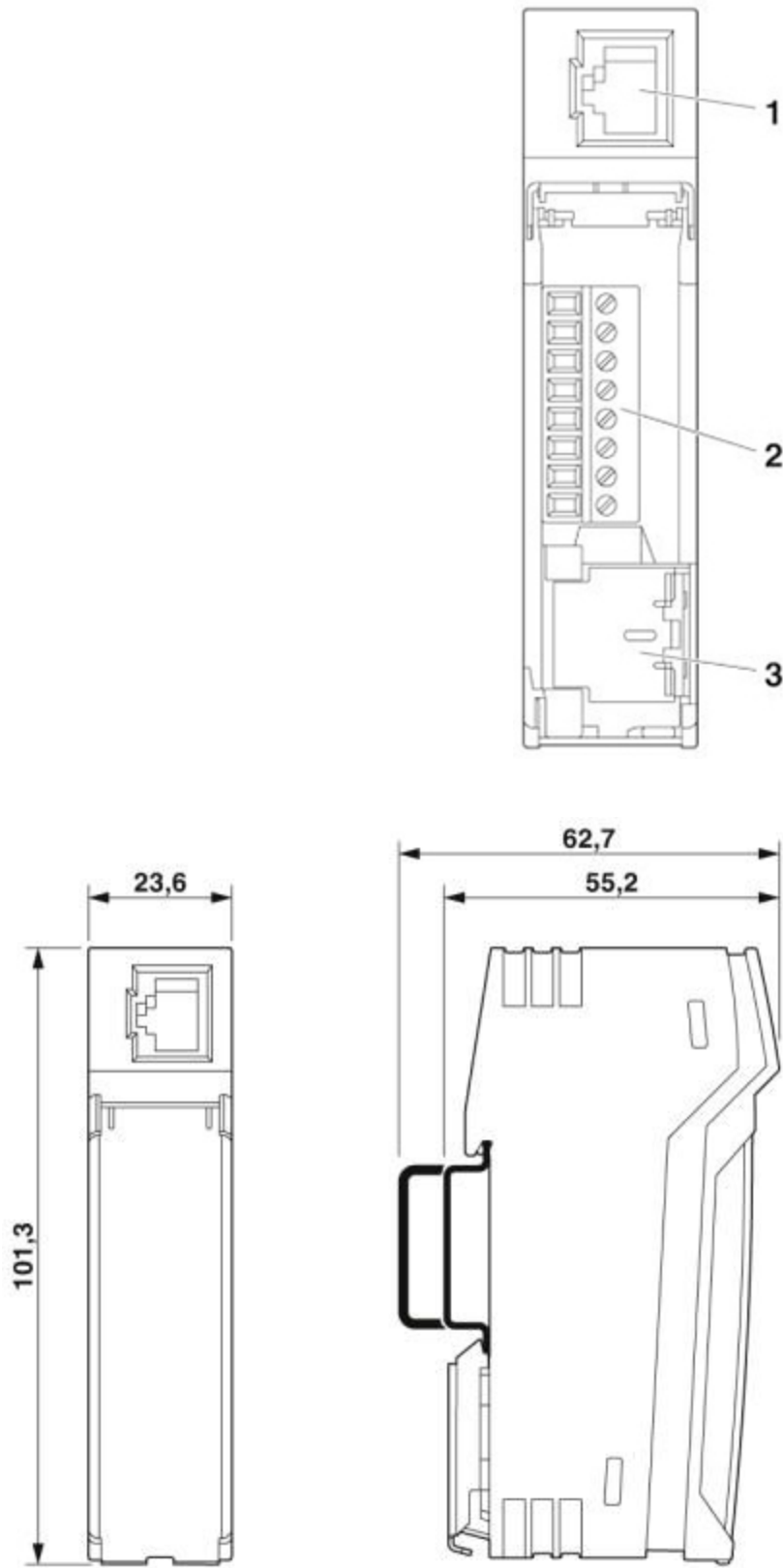
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**PP-RJ-SC Patch Panel Dimensional drawing of Compact housing**

**1 x RJ45 socket and 1 x screw terminal block**

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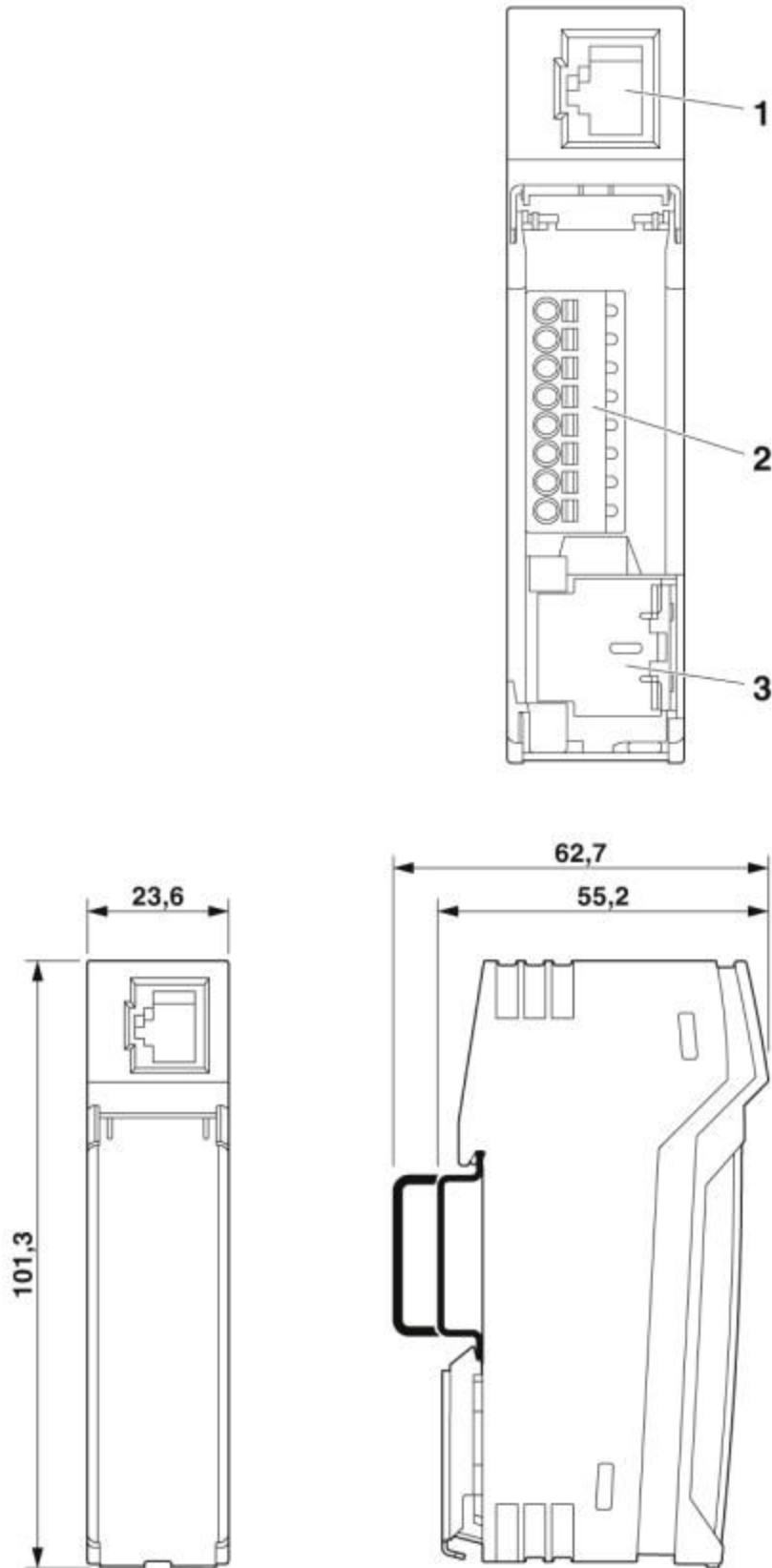




**PP-RJ-SCC Patch Panel Dimensional drawing of Compact housing**

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**1 x RJ45 socket and 1 x Push-in terminal block**

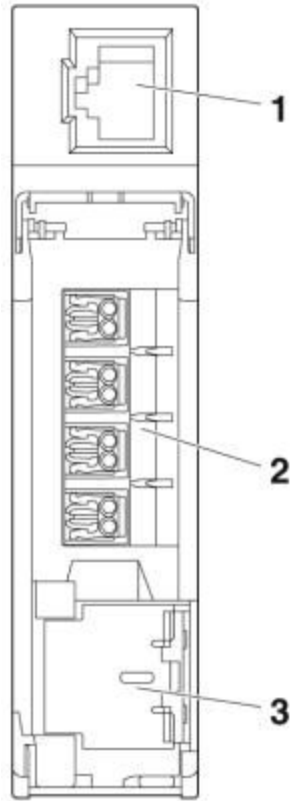


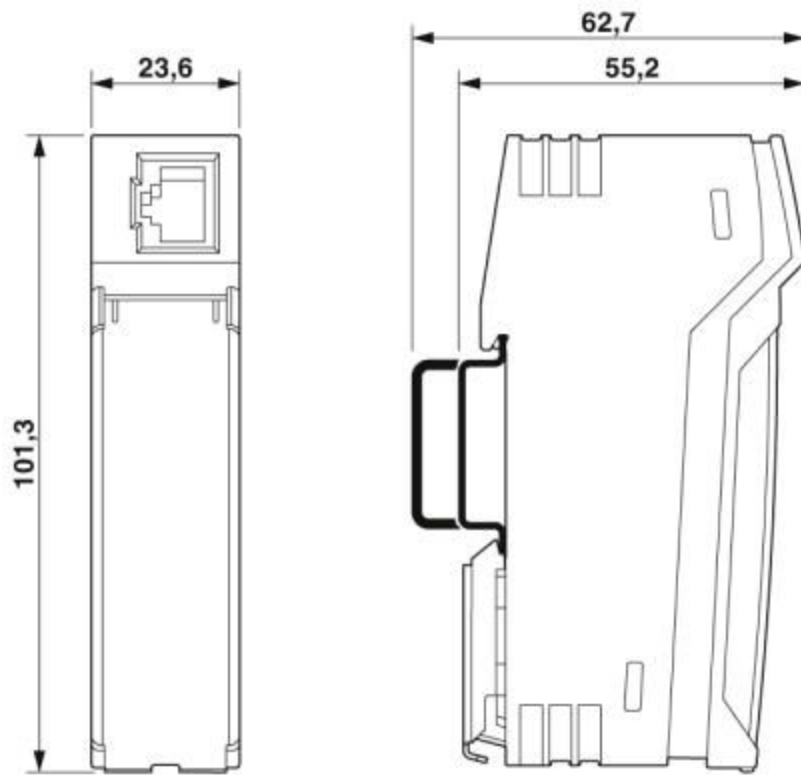
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## PP-RJ-IDC Patch Panel Dimensional drawing of Compact housing

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1 x RJ45 socket and 1 x IDC terminal block





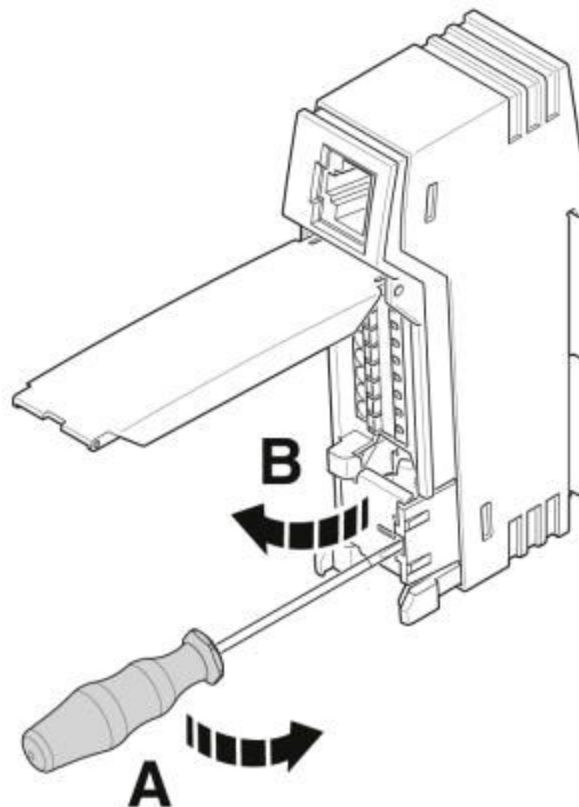
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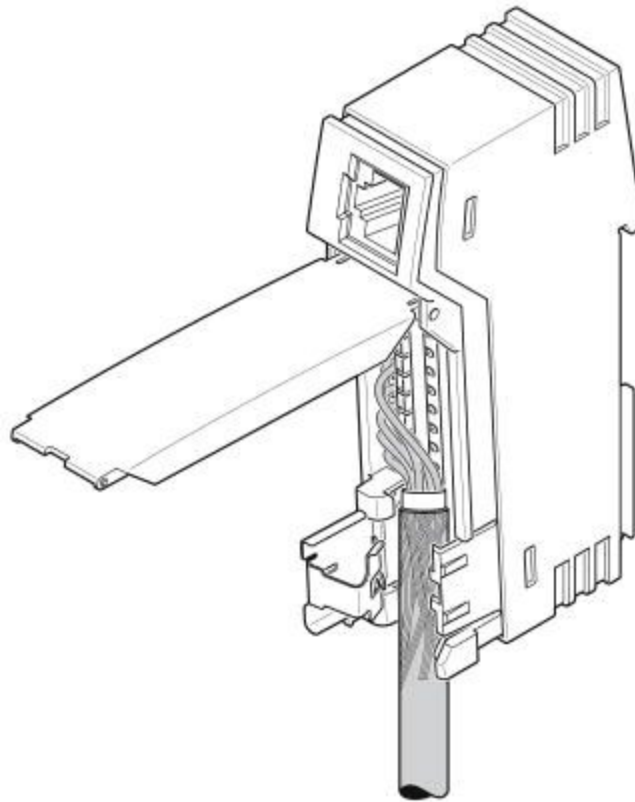
**Shield Connection with strain relief**

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Open shield contact spring

Close shield contact spring





Insert the cable

