


PP-RJ DIN Rail Patch Panels

 [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

- 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

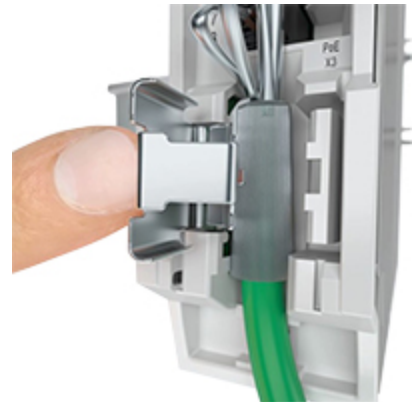
- Inside equipment cabinets with DIN rails
- Alongside Industrial Ethernet switches and RJ45 (Ethernet or Serial) PLCs
- Alongside other DIN Rail RJ45 (Ethernet or Serial) control devices
- Where growth from one to many ports is needed to support high-density installations. Multiple one port DIN Rail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

Benefits of PP-RJ DIN Rail Patch Panels

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"> • RJ45 – standard RJ45 Ethernet type connector • IDC Terminal Block – due to the tool used, it offers increased productivity and security • Push-in Terminal Block – wires can be pushed-in, no tool required • Screw Terminal Block – used for tight connections
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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.
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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.
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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- SCC	PP-RJ-SC	PP-RJ-RJ
	27030198	27030168	27030158

Serial interface

Interface 1	Ethernet interface, 10/100/1000Base-T(X) according to IEEE 802.3u
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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 ²	0.2 mm ²	0.14 mm ²	
Conductor cross section solid max.	0.34 mm ²	1.5 mm ²		
Conductor cross section flexible min.	0.14 mm ²	0.2 mm ²	0.14 mm ²	
Conductor cross section flexible max.	0.34 mm ²	1.5 mm ²		
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 (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 ± 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

Caption	Compact housing
Width	23.8 mm
Height	101.3 mm
Depth	50 mm

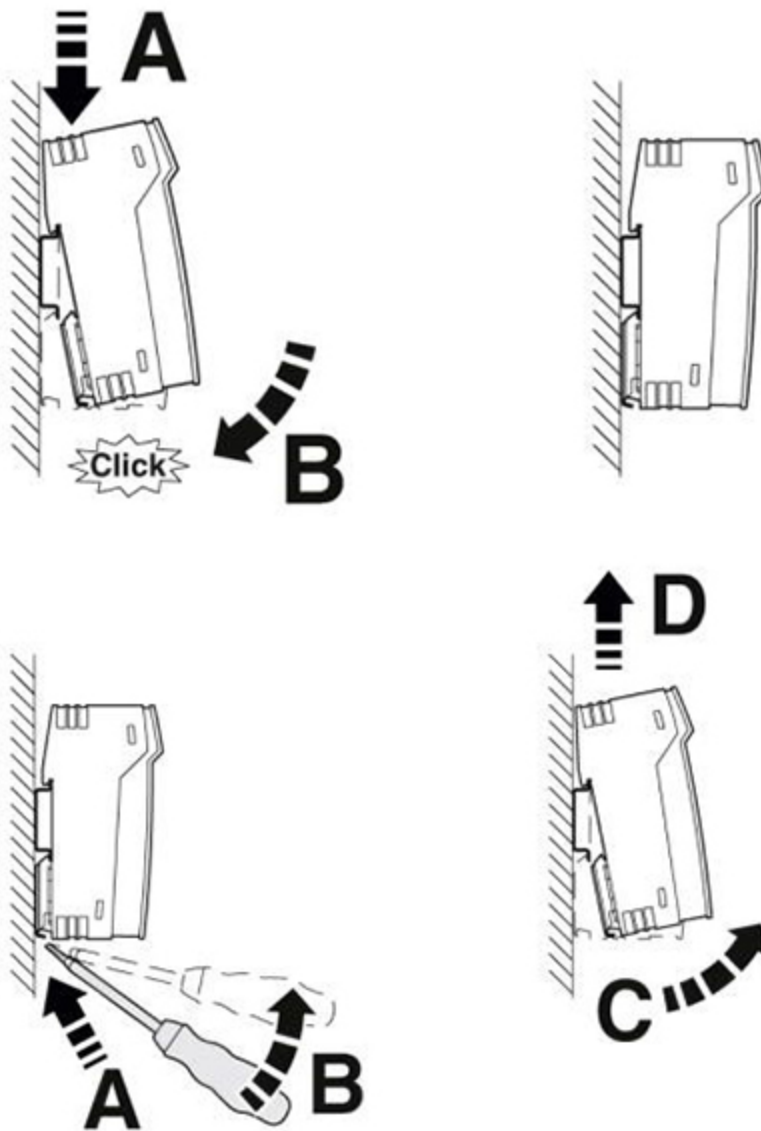
Approvals

- cULus Listed
- cUL Listed

Environmental Product Compliance

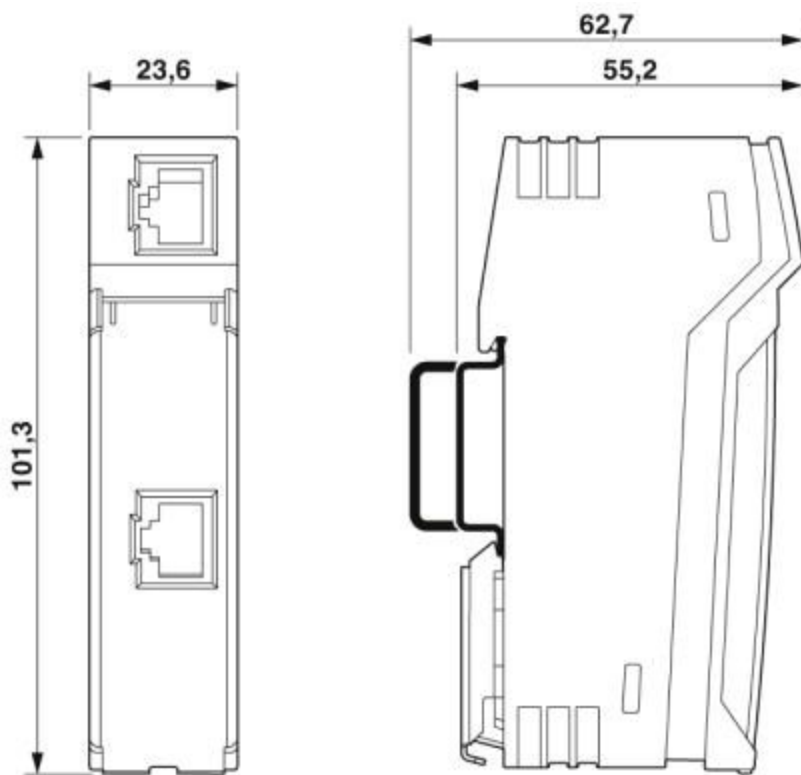
China RoHS	Environmentally friendly use period: unlimited = EFUP-e	Environmentally Friendly Use Period = 50	Environmentally friendly use period: unlimited = EFUP-e
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Easily Mount your Patch Panel on a DIN Rail



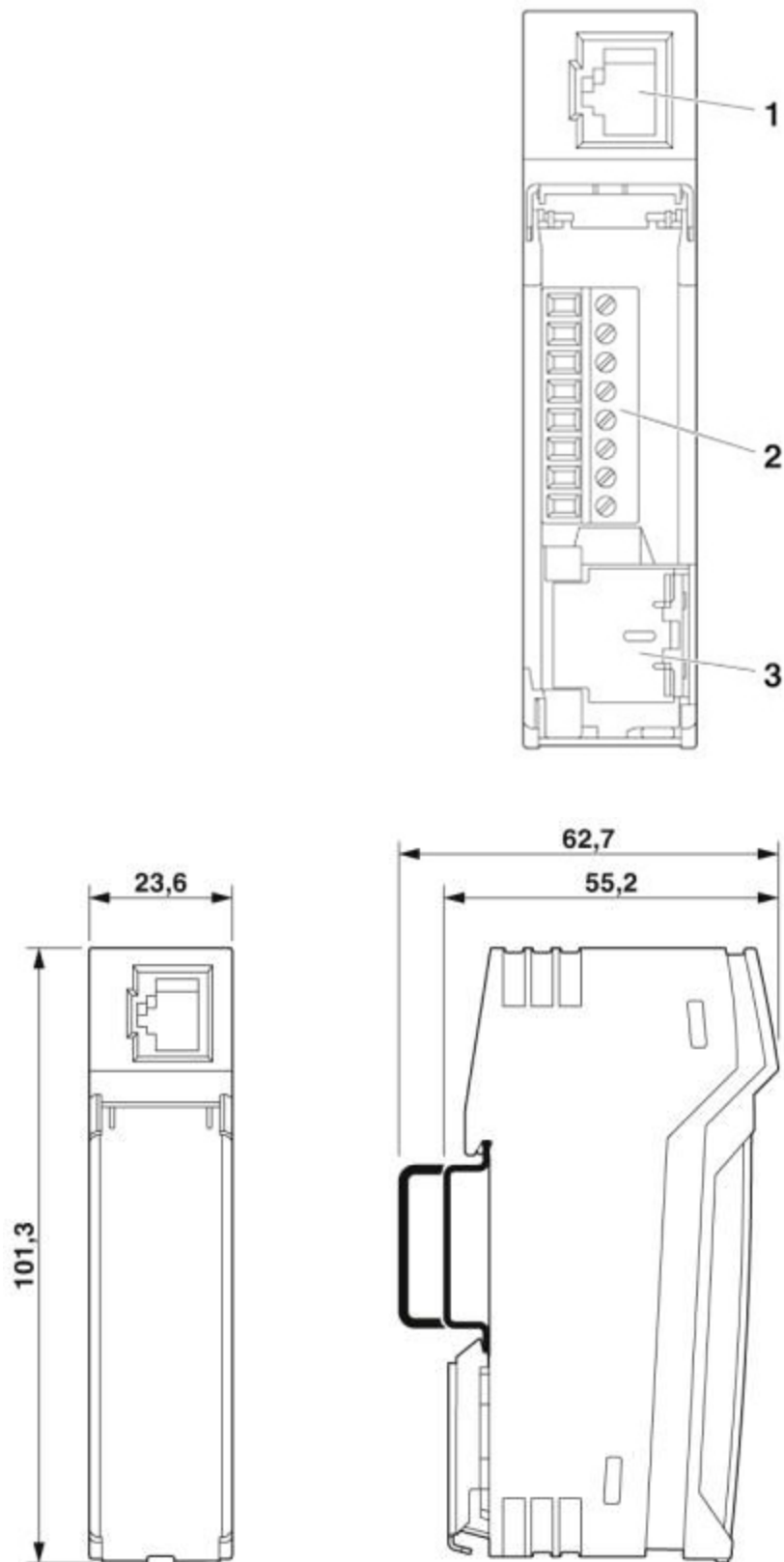
PP-RJ-RJ Patch Panel Dimensional drawing of Compact housing

Two RJ45 Sockets

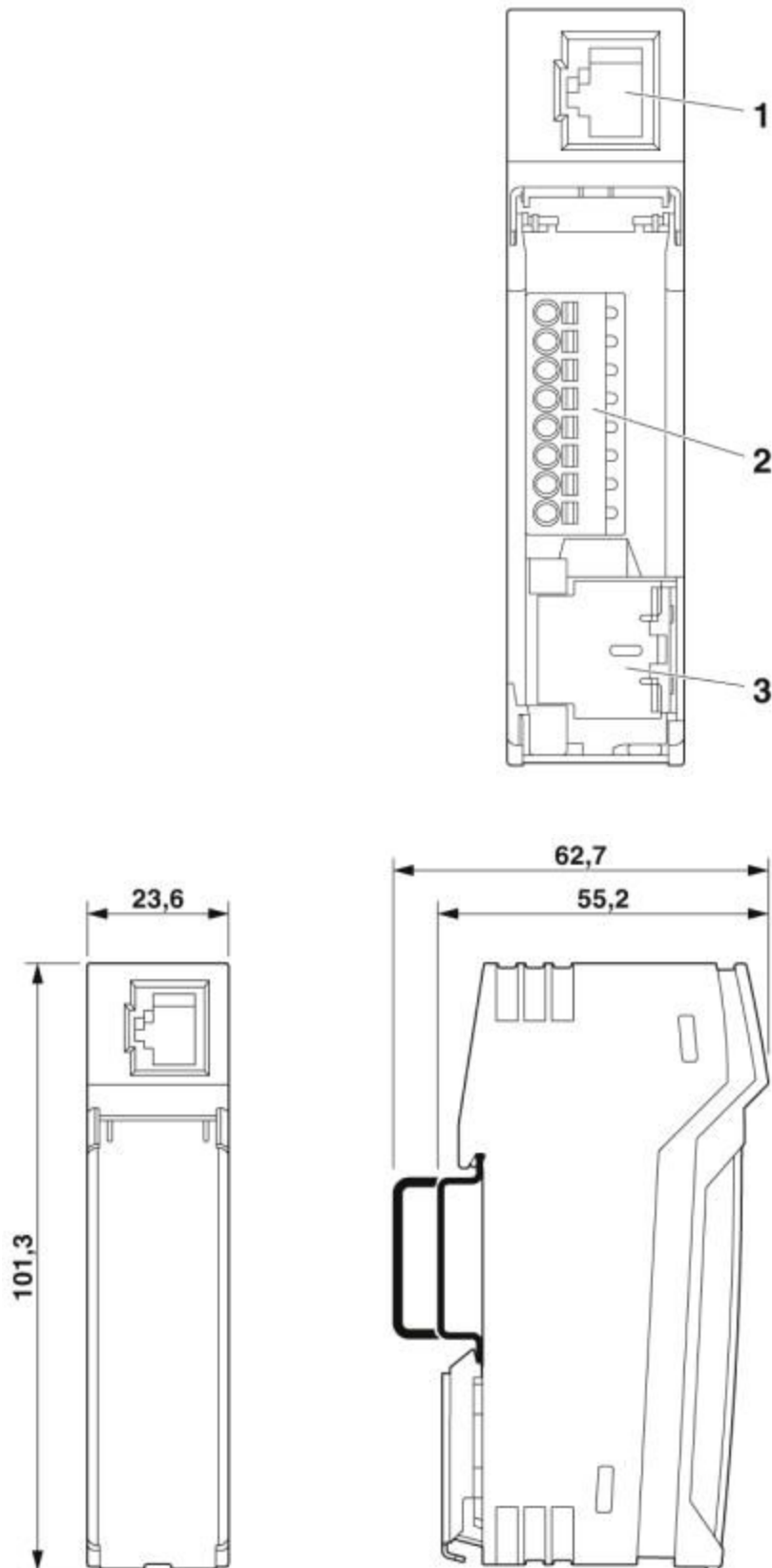


PP-RJ-SC Patch Panel Dimensional drawing of Compact housing

1 x RJ45 socket and 1 x screw terminal block

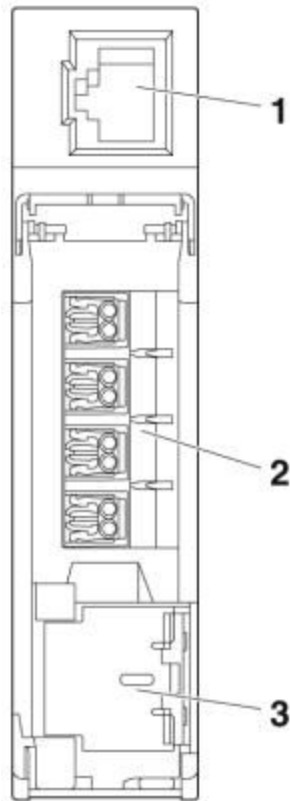


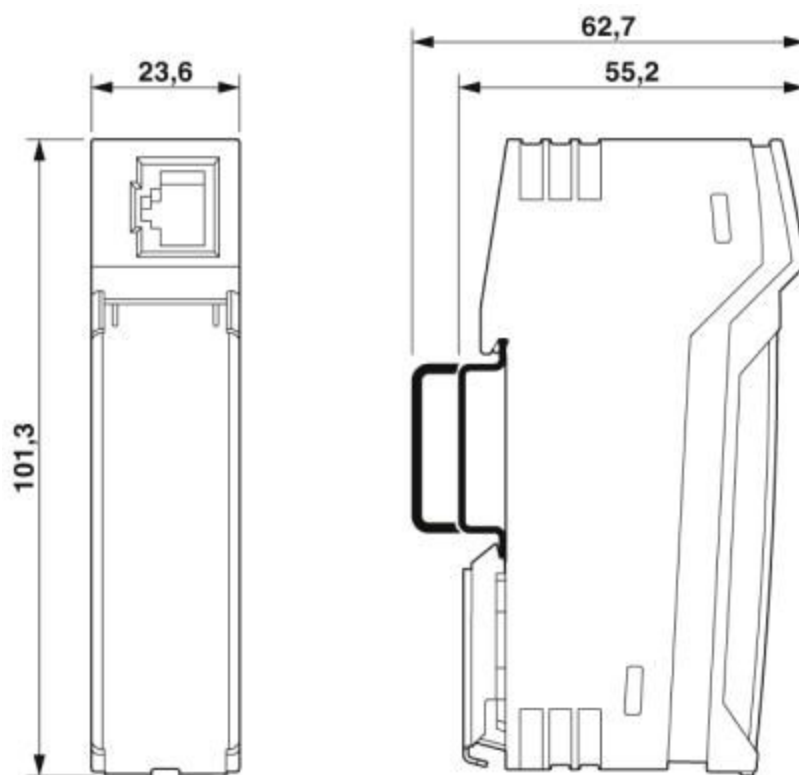
PP-RJ-SCC Patch Panel Dimensional drawing of Compact housing

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

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

1 x RJ45 socket and 1 x IDC terminal block

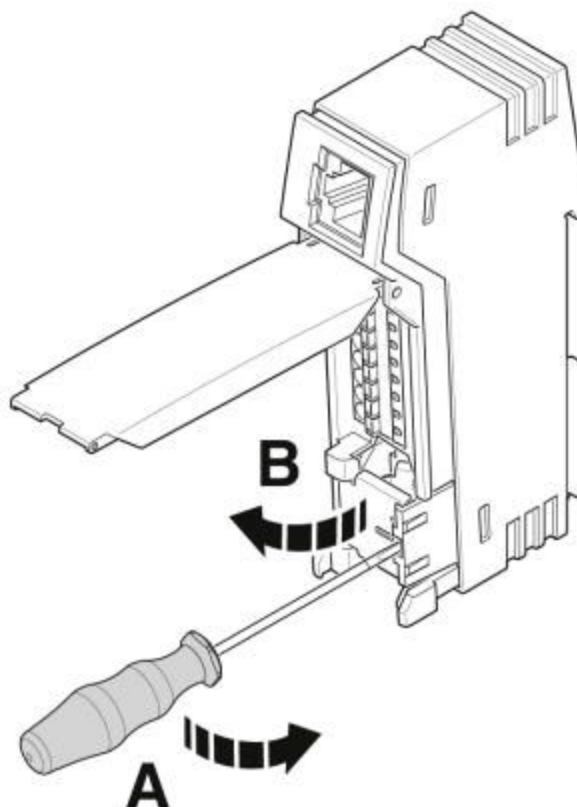


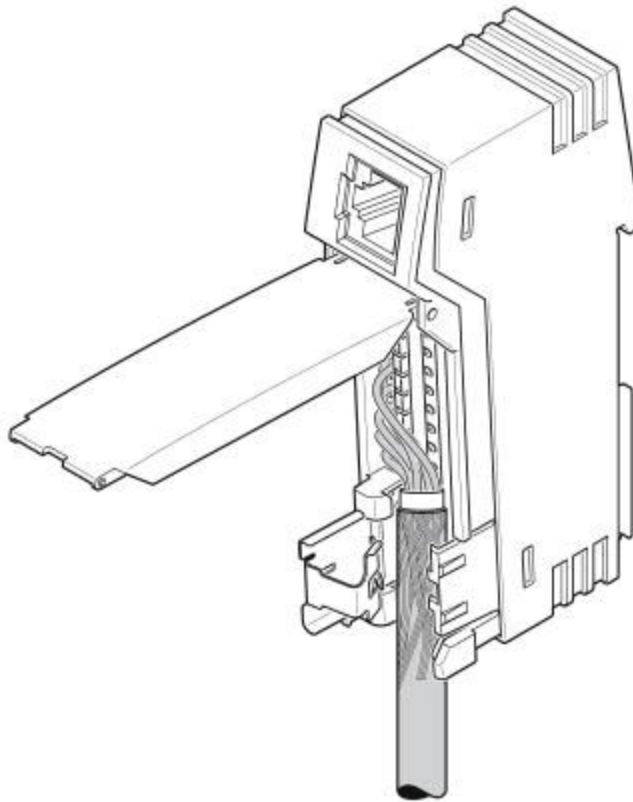


Shield Connection with strain relief

Open shield contact
spring

Close shield
contact spring





Insert the cable

