

PowerSyntax

480 A / 750 A



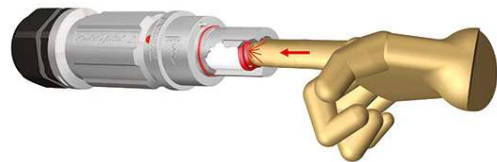
Mechanical and technical enhancements through continuous research have made that the current PowerSyntax series set a new benchmark for single pole high current connectors as for safety, reliability, ease of handling and robustness.

PowerSyntax 480A / 750A - Key features

- Patented mechanical lock of the drain IP2X protection

The IP2X protection on the drain connectors feature a proprietary safety lock of the sharp pointed insulating cap, that will only be unlocked when the corresponding source connector is mated.

This patented mechanical lock prevents the possibility to push the protection inwards with fingers and touch live parts.



- Ergonomic shell for easy connection/disconnection



The innovative ergonomic hand grip has sides specifically designed for easy handling even when big-section copper cables are used. The ergonomic sides allow easy pushing/pulling when mating/unmating.

- Multilouver contact band locking mechanism

The contact band on the source connector is positively locked in its position by a special ring applied with a 2.5 ton pressure.

This solution prevents possible delamination of the multilouver contact band.



- Embossed safety information



All safety information is molded directly on the connector and permanently embossed - no stickers are applied. This means that even after using the connectors many times, the safety information will always be readable.

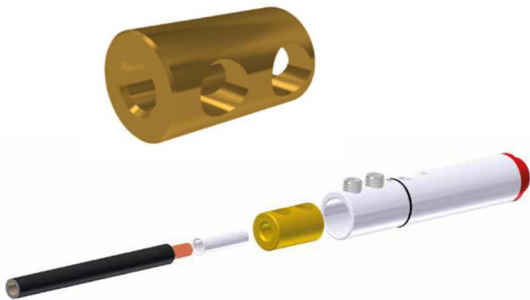
- Driven contact insertion

For quicker connectors' assembling, the electrical contact features a guide pin. Thanks to a corresponding recess inside the connector's insulating shell, the contact is driven inside the shell, and the holes on the contact and shell automatically align with each other.

As a result, the insertion of the dowel pin for contact fastening is easier and quicker and can be carried out even in harsh conditions.



- Sleeve adapter for 25 to 95 mm² power cables



The PowerSyntax sleeve adapters (optional) eliminate the need for multiple concentric sleeves to adapt the contact terminal down to the needed cable section.

On other connectors commonly found on the market, multiple concentric sleeves are used to reduce the cable section from 150 or 120 mm² down to the smaller section specifically needed, with as many as 4 or 5 concentric sleeves required in case of 35 or 25 mm² sections.

The thoughtful design and the mechanical reliability of the PowerSyntax sleeve adapter eliminates the need to use multiple concentric sleeves.

On the adapter, two through holes allow that set screws of a length suitable for a specific sleeve size are used, so that the compression is directly on the sleeve/cable, with no others sleeves in between.

The adapter is available in different versions, each with a housing where a single reduction sleeve of the needed size is fitted.