



Product idea

# 50x50 mm aDapter for PowerCON

PowerCON socket adapter for retrofit applications

**The idea** is to replace standard 50x50 mm flange "Schuko" sockets fast and easy.

Where needed in distribution boxes for instance.

The focus is on the event and entertainment branch.

Other industries also use PowerCON connectors for different purposes.

Thousands of distribution boxes and cable reels with 50x50 mm flange sockets is used everywhere in Europe.

**The product** is a 50x50 mm flange panel adapter without a hinged lid or with\*

With an industry standard XLR packaging, 24 mm "D-size" hole for Neutrik PowerCON 20 A chassis connector.

Other connector types like USB or EtherCon for instance would also fit.

Powercon TRUE1 requires a 28,7 mm hole though.

Another idea could be to make a replacement variant for 3-phase CEE sockets with 85x85 mm flange. With three 1-phase PowerCON sockets in one panel\*

\* = Not tested if it suitable or would fit at the moment.

I have actually **not seen any on the market** so I made a prototype of an aDapter.

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My GitHub projects: <https://github.com/gobo-ws>



Suggestions for some improvements that the first prototype lacks:

- Adjust some minor measure deviations
- Add countersink to the fastening holes in the drawing
- The aDapter corner radius should match sockets from known manufacturers like Mennekes. So it also would be suitable for recessed applications (the problem with the prototype is shown below)
- Gaskets (if needed) to achieve at least protection degree IP44
- Use black polyamide in cast molds for the final product. For the prototype I used 3 mm LED acrylic (free deal from a laser cutting company)
- Keep in mind that powerCON sockets has a larger depth than Schuko

