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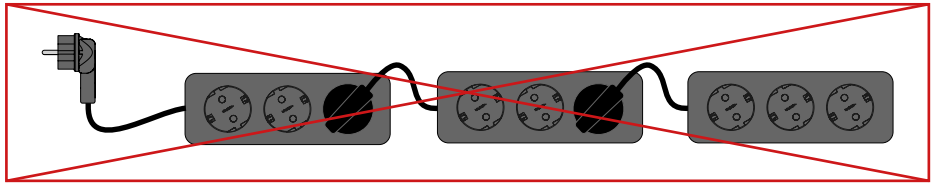
Q&A Cascading

Are you allowed to plug power strips into one another / cascade them?

No.
Plugging multiple sockets in series – known as cascading (see image below) – is not permitted. This practice, which appears to be a simple solution, involves considerable risks and violates applicable safety standards (including VDE 0620-2-1:2021).



Cascading sockets is not permitted!

Why is cascading a security risk?

Overheating and fire hazard
An overload causes heat and, in extreme cases, can lead to fires.

Failure of the protective device
By connecting several power strips in series, the protective device may no longer be able to reliably detect short circuits under certain circumstances. The protective device may no longer be able to reliably detect short circuits under certain circumstances.

Deviation from standards and insurance issues
Cascading violates safety standards.

If, in the event of damage, it is proven that the cause of the fire can be attributed to non-standard electrical installations, this may lead to problems with the assumption of costs.

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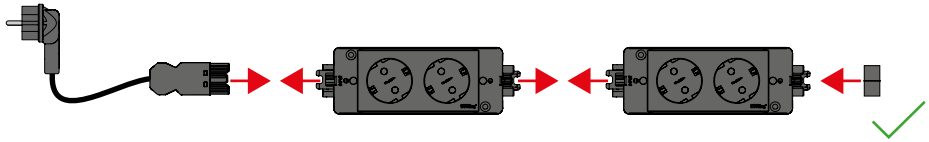
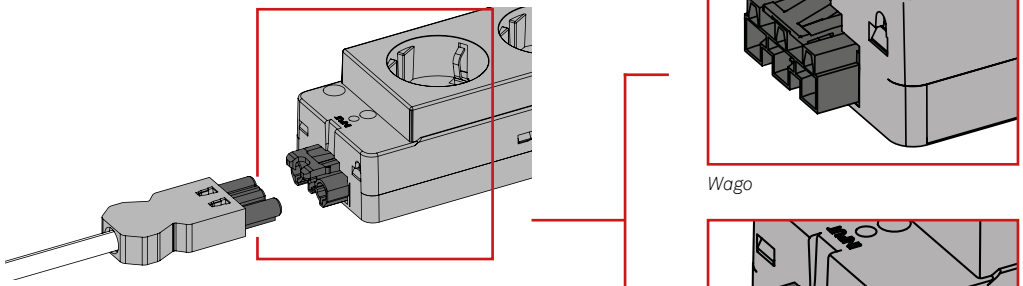
Is there a safe solution for connecting multiple power strips?

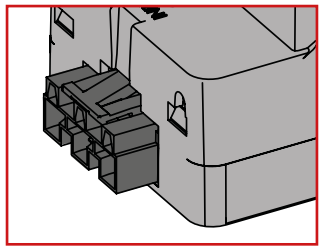
Fixed mounting and plug connections
Only a qualified electrician may permanently connect multiple power strips (using clamps or screws).

The use of installation connectors (e.g. Wago and Wieland) creates a secure and stable connection between the sockets that complies with regulations.

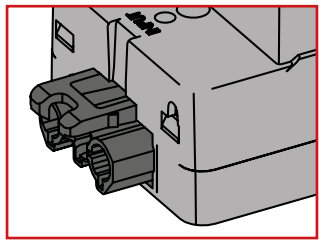


Only qualified electricians are permitted to commission permanently installed power strips with certified connectors.





Wago



Wieland

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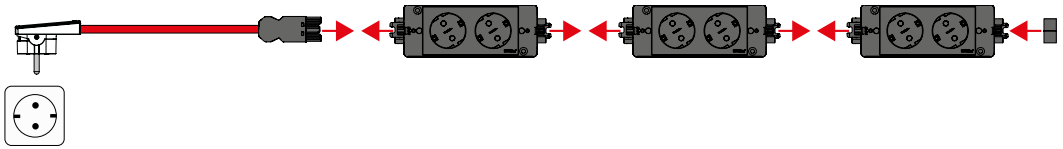
How many power strips can be connected in accordance with regulations?

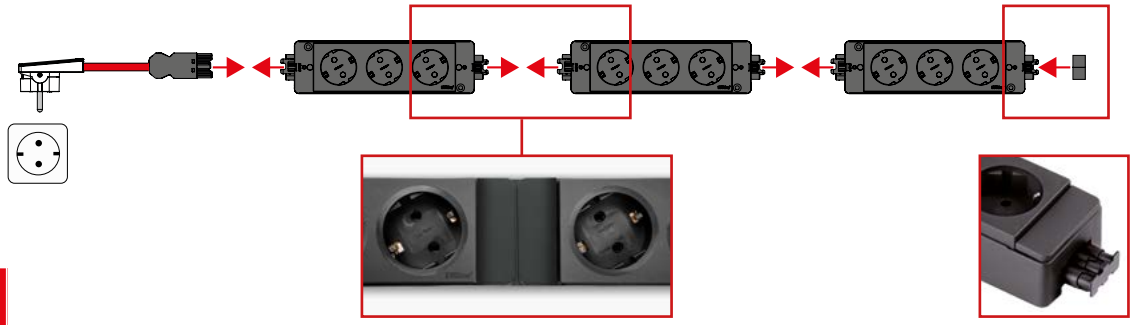
Socket outlets can be connected with a total maximum power consumption of 3600W and a fuse rating of 16 A. Electrical appliances require different amounts of power during operation and when switched on. For this reason, the number of sockets depends on the required power, the application and the pre-fuse rating.

Conclusion: It is not possible to define a fixed number of sockets. The illustrations below are therefore only intended as a rough example.

Chaining with devices
e.g. 500W power consumption each max. 7 devices (< 3600W) - inrush currents not taken into account
e.g. large monitors, workstations, desktop and notebook computers



Chaining with devices
e.g. 250W power consumption each, max. 10 devices (< 3600W) – inrush currents not taken into account
e.g. small monitors



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Do you have any further questions?

Our expert team will be happy to assist you!

Contact form >

Contact person >

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