

## Charging cables for electric vehicles

Electric vehicle charging cables transfer power from the charging station or socket to the vehicle's battery. There are different types of charging cables with different connectors.

### Function

The charging cable is the link between the charging station or the electric grid and the electric vehicle. It transfers power from the charging station or socket to the vehicle's battery. The charging cable's capacity and performance are important factors that can influence the vehicle's charging time.

### Plug-and-socket connections

The international standard IEC 62196 describes a range of charging modes and connector types. This defines four different charging modes (mode 1 to mode 4) ranging from charging with alternating current to charging with direct current.

### Charging modes and connector types

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### Environmental protection

Electric vehicles charged with renewable energy sources are an environmentally friendly alternative to conventional vehicles. Some manufacturers also offer charging cables made from recycled materials to further reduce the ecological footprint.

### Safety

Safety is an important factor when using charging cables. A faulty or damaged cable can cause electric shock or damage the vehicle. It is important to ensure that the cable is properly connected and in flawless condition. Furthermore, charging cables should only be purchased from approved manufacturers to ensure safety.



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