

Type 2 charging cable, with type 2 vehicle connector, type 2 power plug and open cable end.

This item is to be used exclusively for charging electric vehicles with alternating current (AC) at charging stations. The article may only be used with standard-compliant vehicle inlets intended for this purpose according to IEC 62196-2.

## I. Elements of the charging process (table 1)

1. Vehicle connector
2. power plug
3. Charging cable

## II. Safety notes

**⚠ DANGER: Danger of death, serious personal injury and burns**

Improper handling of the charging cable can cause explosions, electric shock and short circuits. The generally applicable safety precautions and the following information must be observed.

1. Always check the charging cable and the contacts for damage and contamination before using them.
2. Never use a damaged charging cable or vehicle inlet.
3. Never use contacts that are dirty or damp.
4. Only connect the charging cable to vehicle inlets that are protected against water, moisture and liquids.
5. Once the charging process is finished, you can disconnect the vehicle connector. Never use force to unplug the vehicle connector. Dangerous electric arcs could result in serious injury or death. Depending on the charging station and electric vehicle, the shutting down of the charging process and the duration of unlocking may vary.
6. There are electric vehicles that can be started with the charging cable connected. Always make sure to disconnect the charging cable before driving away.
7. Do not use the charging cable with an extension cable or an adapter.
8. If the connector is smoking or melting, never touch the charging cable. If possible, stop the charging process. Press the emergency stop switch on the charging station in any case.
9. Make sure that the charging cable is out of the reach of children. Only persons with a valid driver's license for motor vehicles can use the charging cable.

## III. Installation

**⚠ WARNING: Only qualified electrical technicians can install the charging cable. Observe the applicable national standards and regulations.**

1. The signal contact PP is not connected to the cable, but rather to a resistor connected with the PE. It provides the vehicle with the information that an AC charge is taking place with a particular charging current.
2. If you use a charging cable longer than 7.5 m, you need a cable management system according to IEC 61851-1.
3. For the use of the charging cable, professional installation and commissioning at the charging station is required. Before commissioning, the manufacturer of the charging station must ensure that the charging process is shut down whenever there is a malfunction.
4. Connect the cables in accordance with (table 2)

## IV. Protection against environmental influences

1. When the vehicle connector is not being used, always replace the protective cap. Alternatively, you can place the vehicle connector in an appropriate parking position which ensures a minimum protection of IP24 according to IEC 61851-1.
2. To create this parking position, use the dimensions of the vehicle connector in table 3. Detailed specifications can be found at DEGSON.
3. The degree of protection IP54 is only ensured in the ready and plugged-in state when both plug-in components are original products from von degson Contact or suitable standard products.

## V. Operation (table 4)

During operation, observe the instructions for the charging station and the electric vehicle

1. Turn off the vehicle. Remove the protective cap or take the vehicle connector out of the park position of the charging station.
2. Insert the vehicle connector in the vehicle inlet. Insert the power plug in the power inlet. Check whether the connector is plugged in correctly and completely.
3. Start the charging process at the charging station. The vehicle inlet locks the vehicle connector with an internal locking actuator. To stop the charging process, observe the operating instructions for the charging station.
4. Once the charging process is complete, unplug the vehicle connector and power plug. Never use force to unplug the vehicle connector. Dangerous electric arcs could result in serious injury or death. Depending on the charging station and electric vehicle, the shutting down of the charging process and the duration of unlocking may vary.

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5. Replace the protective cap immediately or insert the vehicle connector in the parking position of the charging station.

## VI. Charging time

The duration of the charging process depends on the capacity and the charge of the high-voltage battery of the vehicle and the permissible charging power of the charging station. The charging station automatically detects the permissible charging power of the charging cable and the vehicle. Very low and very high temperatures can impair the charging capacity.

## VII. Cleaning

1. Only clean the charging cable when it is not connected to the vehicle.
2. Clean the charging cable and dirty contacts with a dry cloth.
3. Never use abrasive cleaning agents, water jet or steam jet cleaners.
4. Never submerge the article in liquids.

## VIII. Storage

Store the still unassembled charging cable in a dry and clean place.

## IX. Repair

Replace damaged articles. Repairs are not possible.

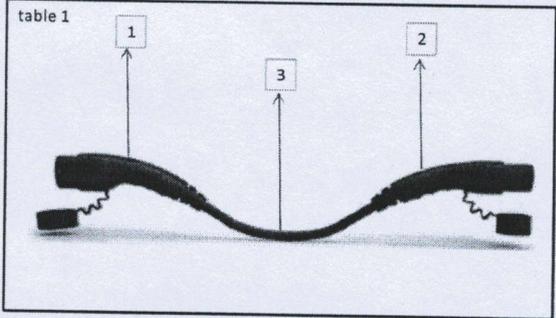
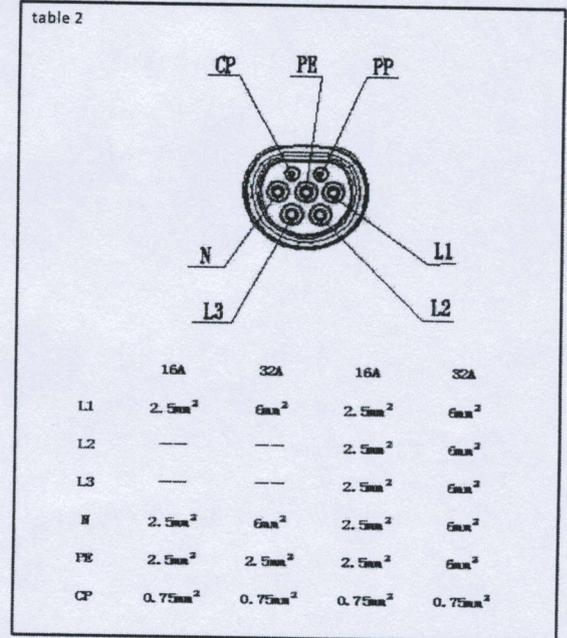


table 2



	16A	32A	16A	32A
L1	2.5mm <sup>2</sup>	6mm <sup>2</sup>	2.5mm <sup>2</sup>	6mm <sup>2</sup>
L2	—	—	2.5mm <sup>2</sup>	6mm <sup>2</sup>
L3	—	—	2.5mm <sup>2</sup>	6mm <sup>2</sup>
N	2.5mm <sup>2</sup>	6mm <sup>2</sup>	2.5mm <sup>2</sup>	6mm <sup>2</sup>
PE	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	6mm <sup>2</sup>
CP	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>

