Japan Energy Components

Connector with Cable for Electric Vehicle Fast Charger

CCS Type 2 Connector

Advantages

- Robust but light weight
- Ergonomic small connector
- Small outer diameter cable
- First model: launched in 2017

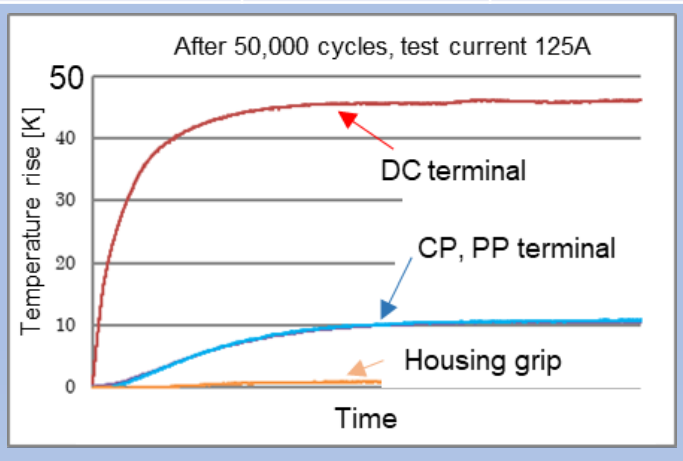
- Compliant to IEC 62196-3: Configuration FF
- Marking: CE, UKCA
- Current range: 60A, 125A, Max 200A*

  *Boost mode
- Operating ambient temperature：－30℃ to 50℃

Characteristic

Terminal with long life terminal

Number of operation cycles	Terminal temperature rise	Remark
10,000 cycle	< 50K	Threshold IEC 62196-3
50,000 cycle	< 50K	5 times the threshold



*This data is from experimental results and may differ in actual use.

Cable flexibility even in cold environments

Immediately after taking the connector with cable out from the environment of low temperature -30 ℃, it was confirmed that the cable stayed flexible and could be bent freely.

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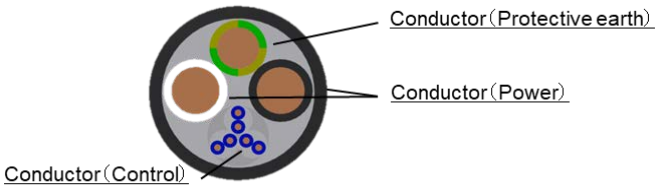
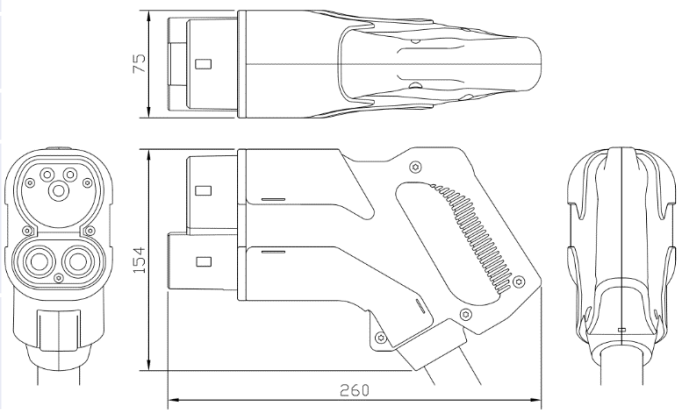
Specification

Electrical specification				
Rated voltage	DC 850V		DC 1000V	
Rated current	125A (@50℃)	60A (@50℃)	135A (@40℃)	60A (@50℃)
Max current	125A	60A	200A (@40℃)	60A
CharIN "Power Class"			"Fast Charging" 80*	"DC Charging" 24*

Cable		
Rated current	125 / 135A	60A
Outer diameter (mm)	28.5	21.6
Bending radius (mm)	171	130
Weight (approx. kg/m)	1.4	0.7



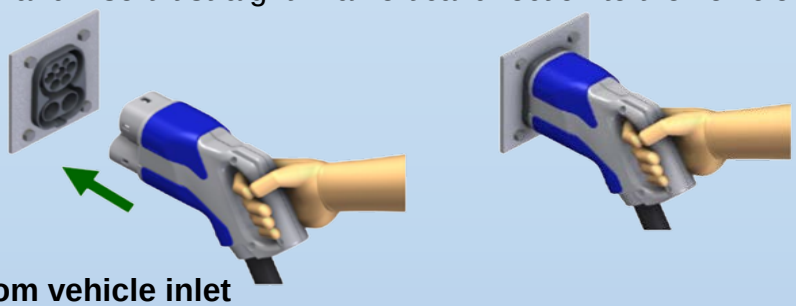
Connector	
Temperature sensor	Pt 1000 include (Power contacts DC+ and DC-)
Proximity resistor (IEC 61851)	1500Ω (PE–PP)
Insulation resistance	> 100 MΩ
Number of operation	> 10,000 cycles *No damage and temperature rise of the terminal is 50K or less.
Drop impact	No breakdown *Dropping 8 times from height 1 m at -30℃.



How to Operate

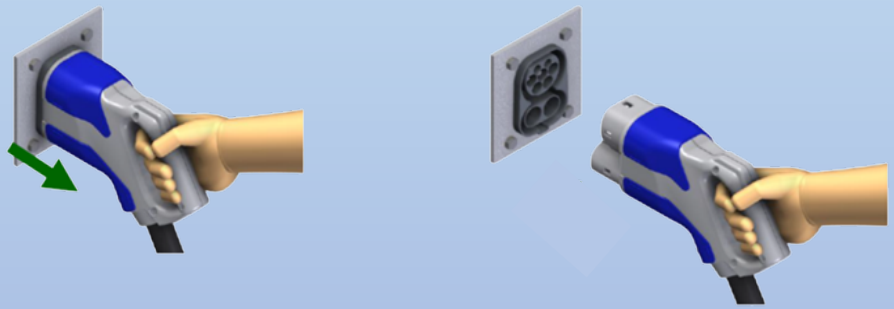
- Connecting to vehicle inlet

Hold the grip firmly and insert it straight in a vertical direction to the vehicle side inlet.



- Disconnecting from vehicle inlet

Hold the grip firmly and pull it straight out vertically to the vehicle side inlet.



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