CCS 1 and CCS 2
DC Fast Charging Connectors

ITT Cannon’s Fast Charging connector series is a flexible, durable, and high power solution available in fully certified CCS 1 and CCS 2 variants.

This uncooled connector is available with various amperage, and cable length options, ensuring that it is ideal for a wide variety of customer applications. It utilizes the robust and proven handle design of our HPC solution and features our ultra-reliable and fully proven contact system.

With more than a decade of EV experience and a global range of AC and DC charging solutions from 10A up to a continuous 500A, ITT Cannon can support your requirements – whatever the application.

Key Features:
- Utilizes the common handle design for ITT DC connectors
- Ultra-reliable contact design for the harshest environments
- Various amperage and cable length options
- Complements existing ITT Cannon AC and HPC range to deliver a one-stop-shop

The ITT Cannon Difference:
- Global capabilities and local support
- Proven EV application expertise
- Over a century of interconnect leadership
- A committed innovator and business partner

About ITT
ITT is a diversified leading manufacturer of highly engineered critical components and customized technology solutions for the energy, transportation and industrial markets. Building on its heritage of innovation, ITT partners with its customers to deliver enduring solutions to the key industries that underpin our modern way of life. Founded in 1920, ITT is headquartered in White Plains, N.Y., with employees in more than 35 countries and sales in a total of approximately 125 countries. For more information visit www.itt.com

Specifications and dimensions subject to change
Technical Overview

Environmental
Ambient temperature (operation) -35°C to +50°C
Max. altitude 5000m (above sea level)
Degree of protection 3R

Electrical
Maximum charging power 150kW
Rated current of power contacts 150A
Rated voltage for power contacts 1000V
Material surface of contacts Ag

Standards/Regulations SAE J1772

Sensors
Temperature Sensor One for each power contact
Type of sensor Pt 1000

Environmental
Ambient temperature (operation) -30°C to +50°C
Max. altitude 5000m (above sea level)
Degree of protection IP 54 mated

Electrical
Maximum charging power 200kW
Rated current of power contacts 60A, 125A, 200A
Rated voltage for power contacts 1000V
Material surface of contacts Ag

Standards/Regulations DIN EN 62196-3

Sensors
Temperature Sensor One for each power contact
Type of sensor Pt 1000

The innovative connector design utilizes two canted coil springs for contact redundancy which creates multiple contact zones and requires minimal mating forces.
# CCS 2

## Fast Charging

### Dimension Drawings

![Dimension Drawings](image)

All dimensions in mm

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### How to Order

<table>
<thead>
<tr>
<th>Type</th>
<th>CCS2-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>FC-</td>
</tr>
<tr>
<td>Amperage</td>
<td>200-</td>
</tr>
<tr>
<td>System cable length in dm (3 digits)</td>
<td>050</td>
</tr>
<tr>
<td>Modification code* (only if applicable)</td>
<td>MMM</td>
</tr>
</tbody>
</table>

*Contact factory

### Example Part number explanation

CCS2-FC-200-050 = CCS2, Fast Charging, 200A, 5.0m system cable

### Explanation

**Type**  
CCS2 (EU market)

**Series**  
FC - Fast Charging

**Amperage**  
60 Amps / 125 Amps / 200 Amps

**System cable length**  
XXX - Length in decimeters (dm)

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*Standard cable lengths are 4m, 5m and 6m*

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Specifications and dimensions subject to change

www.ittcannon.com
How to Order

<table>
<thead>
<tr>
<th>Type</th>
<th>Series</th>
<th>Amperage</th>
<th>System cable length in dm (3 digits)</th>
<th>Modification code* (only if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS1</td>
<td>FC</td>
<td>150</td>
<td>XXX - Length in decimeters (dm)</td>
<td>*Contact factory</td>
</tr>
</tbody>
</table>

Example Part number explanation
CCS1-FC-150-050 = CCS1, Fast Charging, 150A, 5.0m system cable

Explanation

Type: CCS1 (US market)
Series: FC - Fast Charging
Amperage: 150 Amps
System cable length: XXX - Length in decimeters (dm)

Standard cable lengths are 4m, 5m and 6m

Specifications and dimensions subject to change
Connect with the experts

ITT Cannon is a world leader in the design and manufacture of highly engineered solutions for global e-mobility markets.