

cannon

# CCS 1 and CCS 2 DC Fast Charging Connectors



ITT

# 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.



CCS 1



CCS 2

## 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](http://www.itt.com)

# Technical Overview



CCS 1



CCS 2

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

| Electrical                       |            |
|----------------------------------|------------|
| Maximum charging power           | 200kW      |
| Rated current of power contacts  | 150A, 200A |
| 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              |

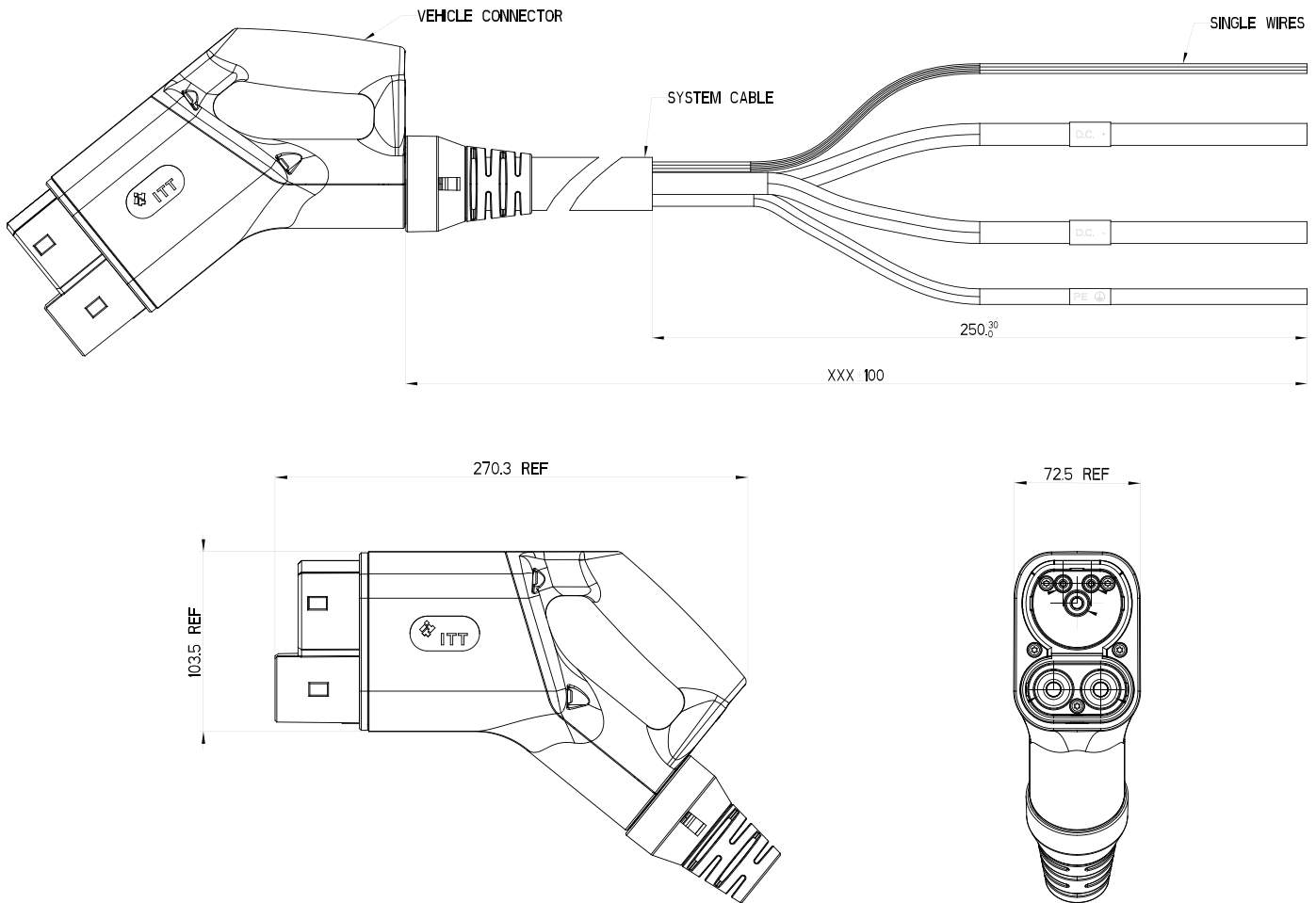
| Standards/Regulations | DIN EN 62196-3 |
|-----------------------|----------------|
|-----------------------|----------------|

| 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



All dimensions in mm

### How to Order



Type

Series

Amperage

System cable length in dm (3 digits)

Modification code\* (only if applicable)

\*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

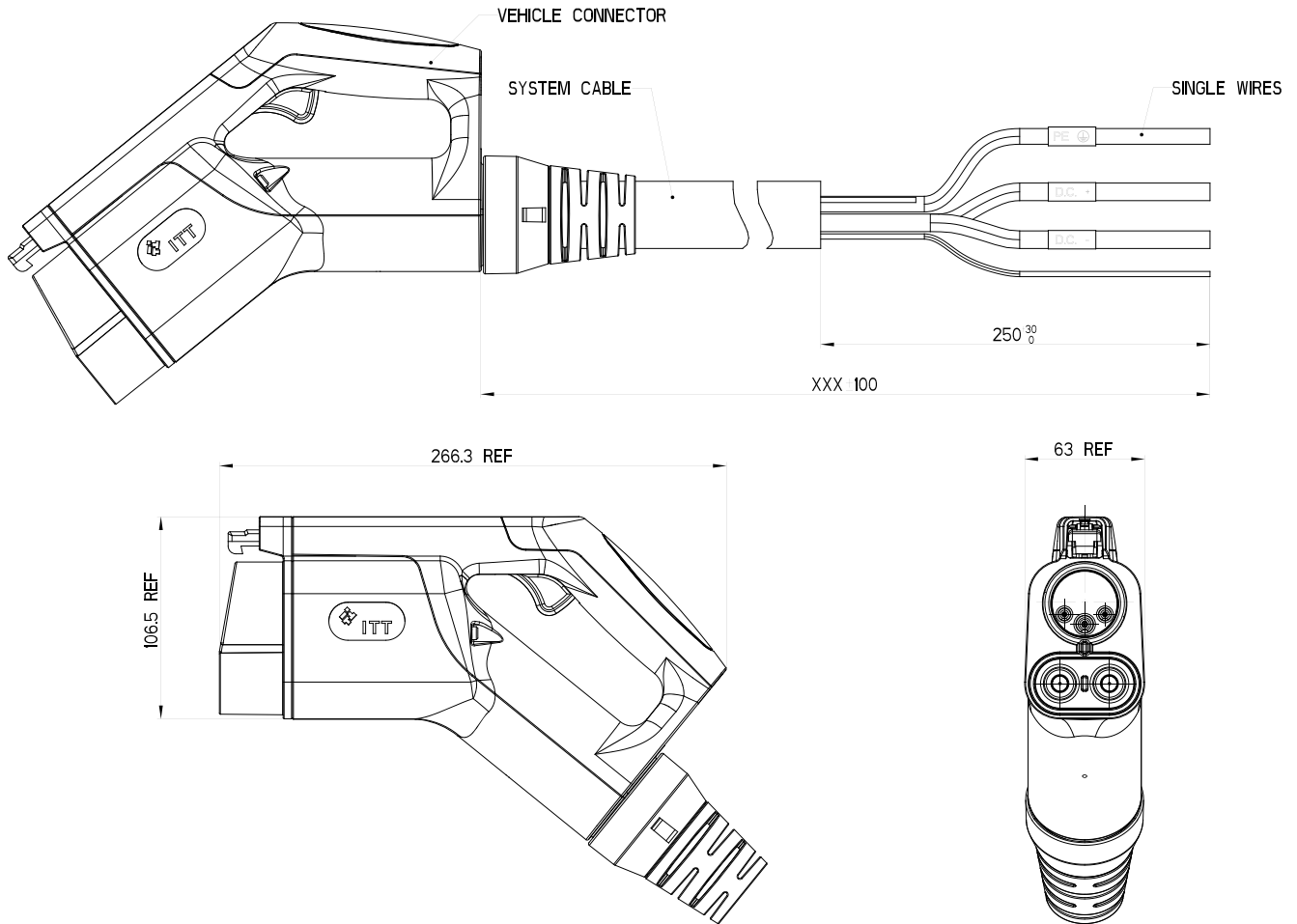
XXX - Length in decimeters (dm)

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

Specifications and dimensions subject to change

# CCS 1

## Fast Charging Dimension Drawings



All dimensions in mm

### How to Order

CCS1-

FC-

150-

050

MMM

Type

Series

Amperage

System cable length in dm (3 digits)

Modification code\* (only if applicable)

\*Contact factory

#### Example Part number explanation

CCS1-FC-150-050 = CCS1, Fast Charging, 150A, 5.0m system cable

#### Explanation

| Type             | Series             | Amperage            | System cable length             |
|------------------|--------------------|---------------------|---------------------------------|
| CCS1 (US market) | FC - Fast Charging | 150 Amps / 200 Amps | XXX - Length in decimeters (dm) |

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

Specifications and dimensions subject to change


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## Connect with the experts

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



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