

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

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

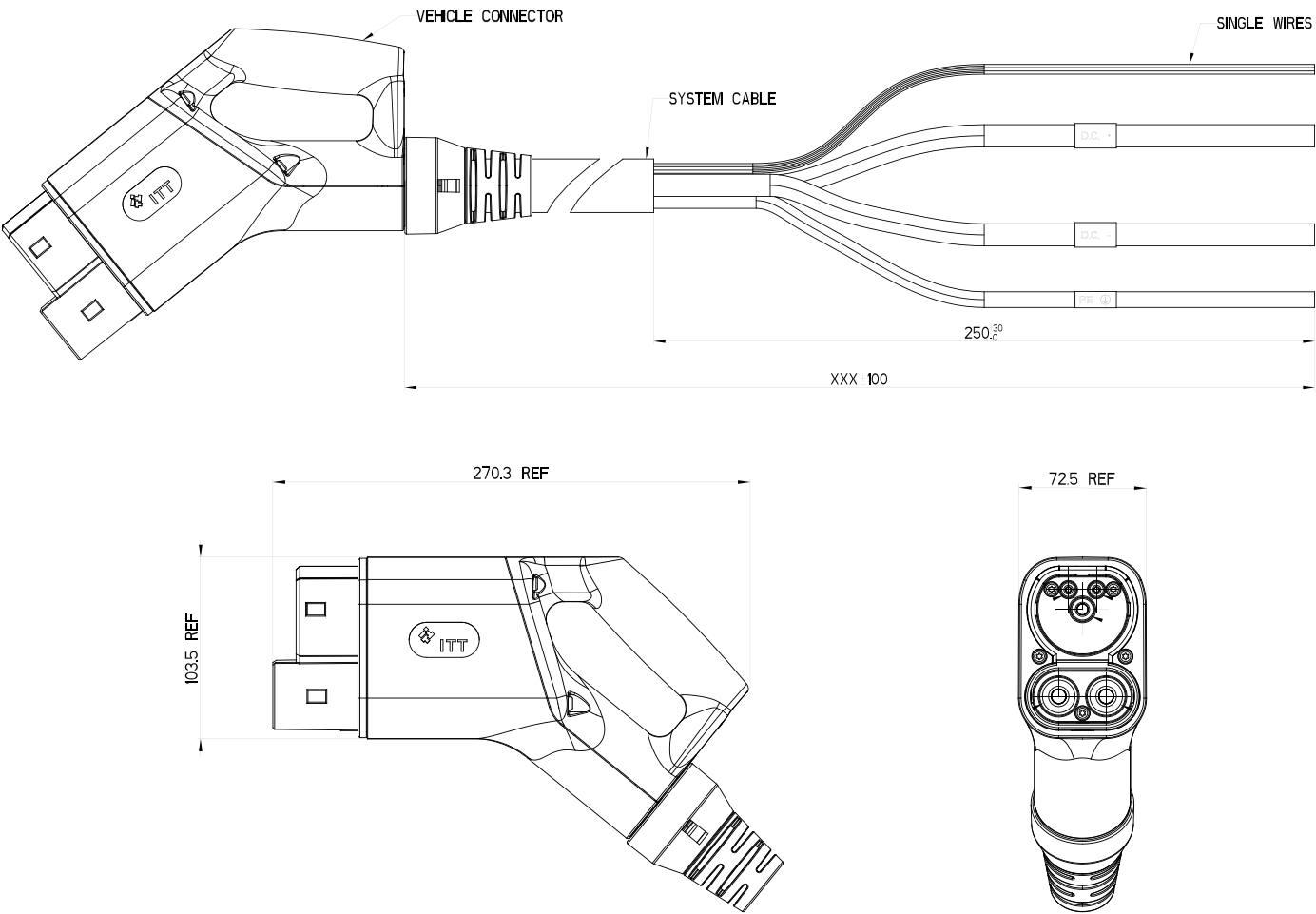
Sensors

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

CCS2-

FC-

200-

050

MMM

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

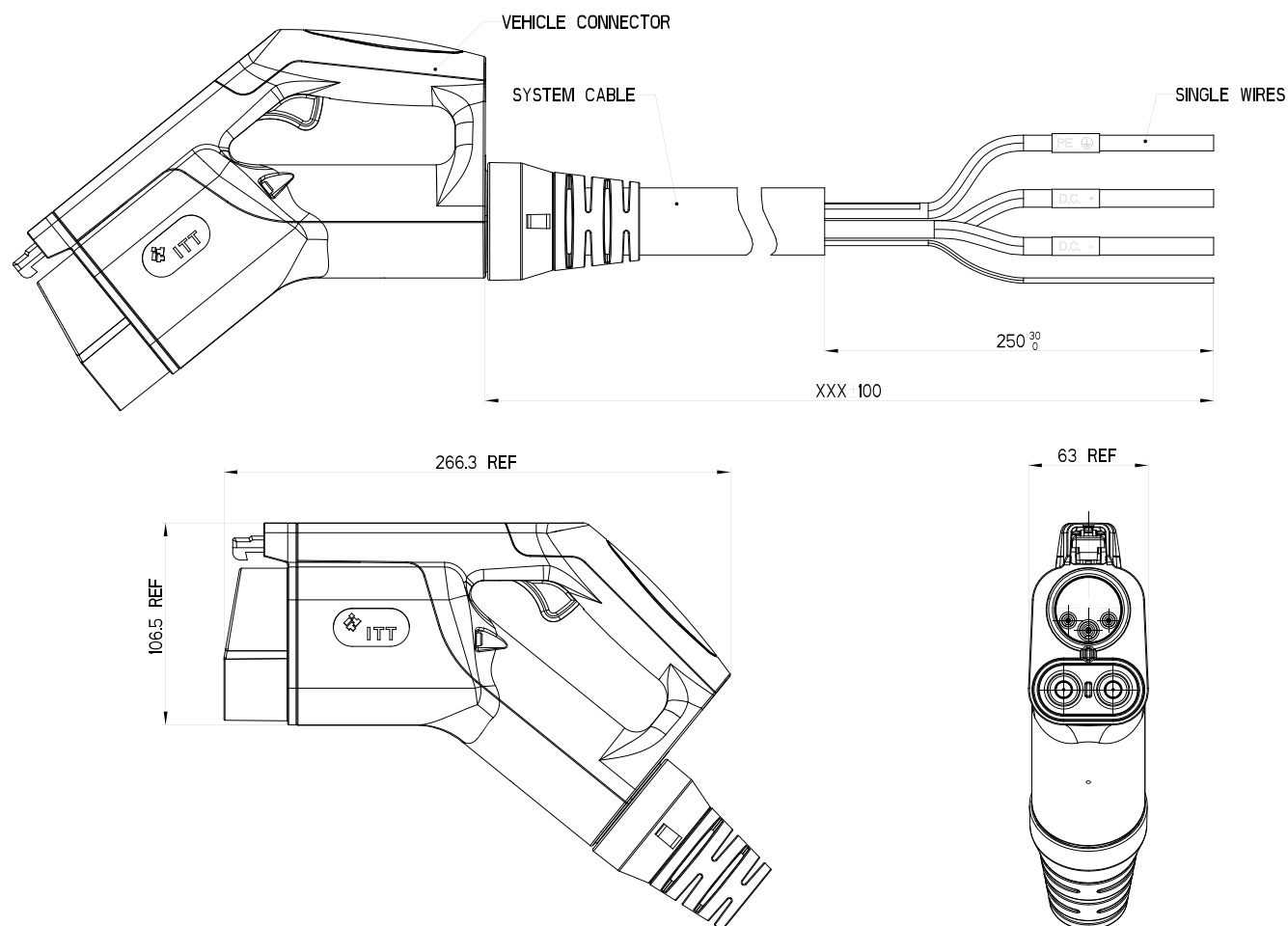
Type	Series	Amperage	System cable length
CCS2 (EU market)	FC - Fast Charging	60 Amps / 125 Amps / 200 Amps	XXX - Length in decimeters (dm)

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

Connect with your ITT Cannon representative today
or visit us at www.ittcannon.com

Connect with the experts

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



Connect with your ITT Cannon representative today or visit us at www.ittcannon.com

Follow us 

CHINA - Shenzhen City
+86.755.2726.7888

GERMANY - Weinstadt
+49.7151.699.0

ITALY - Lainate
+39.02938721

KOREA
+82.2.702.7111

SHANGHAI
+ 86.21.2231.2222.2

UK - Basingstoke
+44.1256.347400

FRANCE
+33.1.60.04.93.93

HONG KONG
+852.2732.2720

JAPAN - Kanagawa
+81.462.57.2010

MEXICO - Nogales
+52.631.311005

SINGAPORE
+65 66974205

USA - Irvine, CA
+1.800.854.3028

The "ITT Engineered Blocks" symbol, "Engineered for life", "ITT", "Veam" and "Cannon" are registered trademarks of ITT Inc. Specification and other data are based on information available at the time of printing, and are subject to change without notice.

© 2021 ITT Inc.
ITT Cannon CCS FC 042021