

# NORTH AMERICAN DC CHARGING CONNECTOR

The North American DC charging connector provides a Level 3 charging solution for North American vehicles.

The connector can be mechanically fitted to a Level 3 charging system using standard mounting hardware. The connector is manufactured with a built-in temperature sensor for graceful temperature foldback, a back up temperature switch for safety overtemperature protection, and a UHF transmitter to remotely open chargeport doors. The transmitter is available in two frequencies for regional compliance.



## PERFORMANCE SPECIFICATIONS

<b>Model Number</b>	1025388-XX-S
<b>Product Type</b>	Charging Connector Assembly
<b>Compatibility</b>	DC
<b>Rated Voltage (Nominal)</b>	500 VDC
<b>Rated Current</b>	200 A DC <sup>1</sup>
<b>Maximum Current</b>	400 A DC <sup>2</sup>
<b>Power Conductor Connection Method</b>	Bolted joints
<b>Insulation Resistance</b>	≥ 100 MΩ
<b>Rated Drop Resistance</b>	200 drops <sup>3</sup>
<b>Insertion / Withdrawal Force</b>	< 90 N
<b>Flammability Rating</b>	UL 94 V-0

<sup>1</sup> Rated continuous current at 40°C ambient. Rated current can be exceeded for short durations. Built in temperature sensor may be used to elegantly control current within temperature limits.

<sup>2</sup> Maximum instantaneous current. Duration of maximum current is a function of ambient temperature and vehicle inlet capabilities.

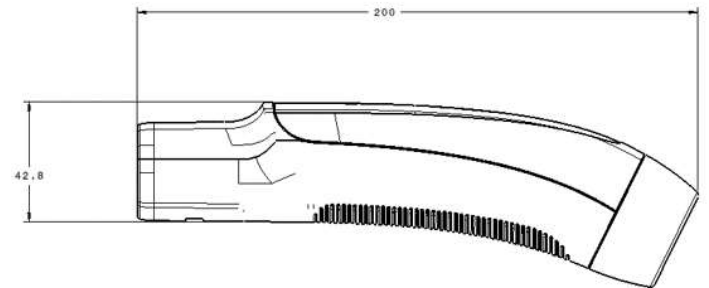
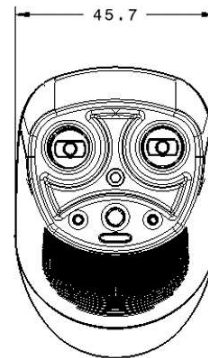
<sup>3</sup> Drops performed from 1m height onto concrete surface at 22°C ± 8°C.

## ELECTRICAL SPECIFICATIONS

<b>Low Voltage Electrical Connector</b>	Molex Mini-Fit 15-97-5061
<b>Low Voltage Electrical Terminal</b>	Molex 0039000038
<b>Temperature Sensor Type</b>	NTC, 10K
<b>Temperature Sensor</b>	Vishay NTCALUGE2C90784
<b>Temperature Sensor Threshold</b>	75°C
<b>Temperature Switch</b>	HXPPE TP2-09505
<b>Temperature Switch Threshold</b>	95°C
<b>UHF Transmitter</b>	Silicon Labs Si4010-C2-ATR
<b>UHF Transmitter Frequency</b>	315 MHz, 434 MHz

## MECHANICAL SPECIFICATIONS

<b>Dimensions (Overall)</b>	45.7 mm x 42.8 mm x 200 mm
<b>Cable Diameter</b>	34.3 mm
<b>Cable Length</b>	2 m
<b>Connector Enclosure Material</b>	Polycarbonate
<b>EVSE HV Terminal Material</b>	Copper - Tin Plated
<b>EVSE GND Terminal Material</b>	Copper - Tin Plated
<b>EVSE Signal Terminal Material</b>	Brass - Tin Plated



## ENVIRONMENTAL SPECIFICATIONS

<b>Ambient Temperature</b>	-40°C to 50°C (-40°F to 122°F)
<b>Operating Temperature</b>	-40°C to 105°C (-40°F to 221°F)
<b>Maximum Elevation</b>	3,000 m (9,843 ft)
<b>Operating Humidity</b>	Up to 95% RH, condensing
<b>Protection Degree</b>	IP67
<b>UV Resistance</b>	F1 per UL 746C