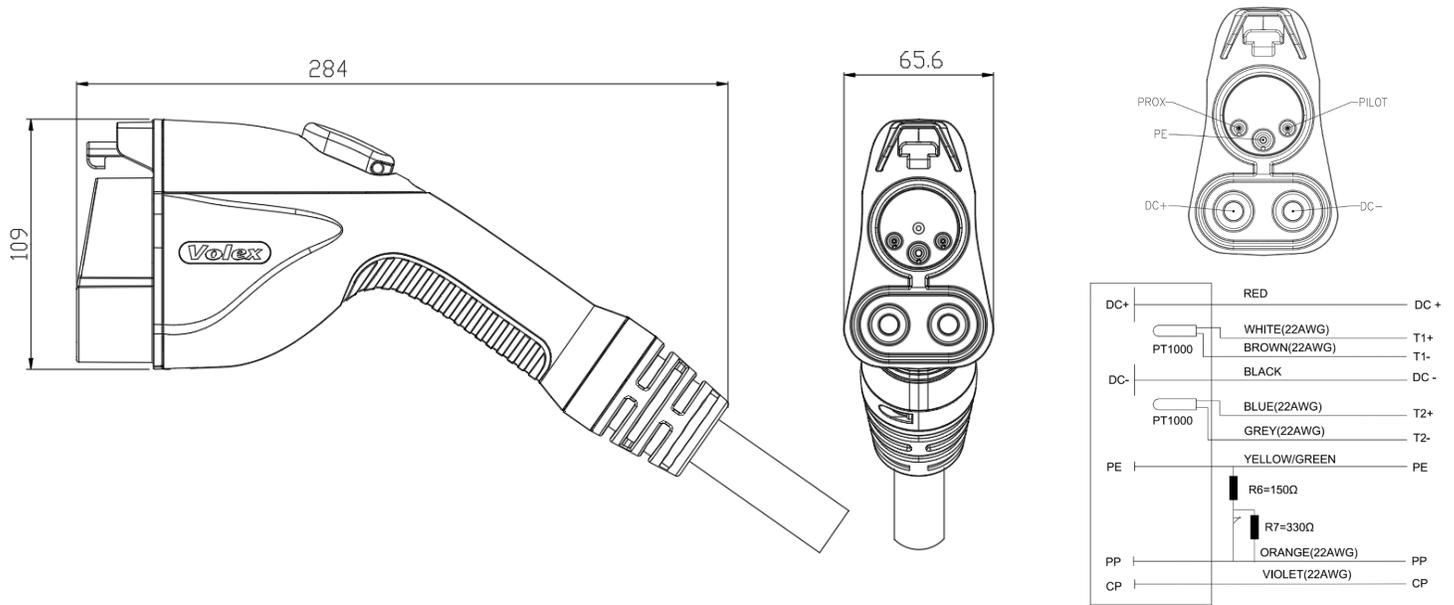


CCS1 40 / 80A DC Charging Cable



PRODUCT DEFINITION		
Charging Standard	J1772	
Standards / Regulations	UL 2251, CSA C22.2 NO. 282, SAE J1772	
Approval	UR / cUR	
DIMENSIONS: VEHICLE CONNECTOR		
Width	65.6 mm	
Height	109 mm	
Depth	284 mm	
Cable Length	On Request	
AMBIENT CONDITIONS		
Ambient Temperature (Operation)	-40°C to +50°C	
Ambient Temperature (Storage / Transport)	-40°C to +105°C	
Max. Altitude	5,000 m (above sea level)	
Degree of Protection (Mated with Socket)	IP67	
Degree of Protection (Mated with Protective Cap)	IP44	
Degree of Protection (Plugged)	IP54	
ELECTRICAL PROPERTIES		
Number of Phases	DC	
Rated Voltage for Power Contacts	1000V DC	
Rated Current for Power Contacts	40A	80A
Maximum Charging Power	40 kW	80 kW
Number of Power Contacts	3 (DC+, DC-, PE)	
Rated Voltage for Signal Contacts	30V AC	
Rated Current for Signal Contacts	2 A	
Number of Signal Contacts	2 (CP, CS)	
Note on the Connection Method	Crimp Termination (cannot be disconnected)	
Resistor Coding (between PE and PP)	480 Ω (lever operated) 150 Ω (lever not operated)	
Temperature Sensor	2 x Pt1000	
Temperature Sensor Application Range	-50°C to +130°C	
Sensor Shutdown Temperature	Pt1000 temperature up to 90°C	

CCS1 40 / 80A DC CHARGING CABLE MECHANICAL DRAWING



MECHANICAL PROPERTIES

Mating Cycles	> 10,000
Insertion Force	< 75 N
Withdrawal	< 75 N

MATERIAL		DESIGN	
Material Housing / Handle Area	Plastic	Housing / Handle Area Colour	Black
Material Mating Face	Plastic	Mating Face / Locking Lever Colour	Black
Material Protective Cap	Soft Plastic (Optional)	Protective Cap Colour	Black (Optional)
Flammability Rating	V0		
Material Contacts	Cu-Alloy	Housing with Customer Logo	On Request
Plating	Silver/Nickel Plating (or On Request)		

CABLE		
AMPERAGE	CABLE STRUCTURE	CABLE O.D.
40A	EVC 3 x 10AWG + 3 x 2 x 22AWG	12 mm
80A	EVC 2 x 6AWG + 1 x 8AWG + 6 x 22AWG	19.1 mm

CABLE RESISTANCE AT 20°C			
6AWG	8AWG	10AWG	22AWG
≤ 1.40 Ω/km	≤ 2.23 Ω/km	≤ 3.38 Ω/km	≤ 63.4 Ω/km

Cable Standard	UL 62
Type of Conductor	Straight (or more types on request)
Outer Sheath Material	TPE Compound
Outer Sheath Colour	On Request

ENVIRONMENTAL PRODUCT COMPLIANCE	
REACH SVHC	Compliant
China RoHS	Compliant
EU RoHS	Compliant

Contact us at sales@volex.com
for assistance in finding the right solution for your needs.