

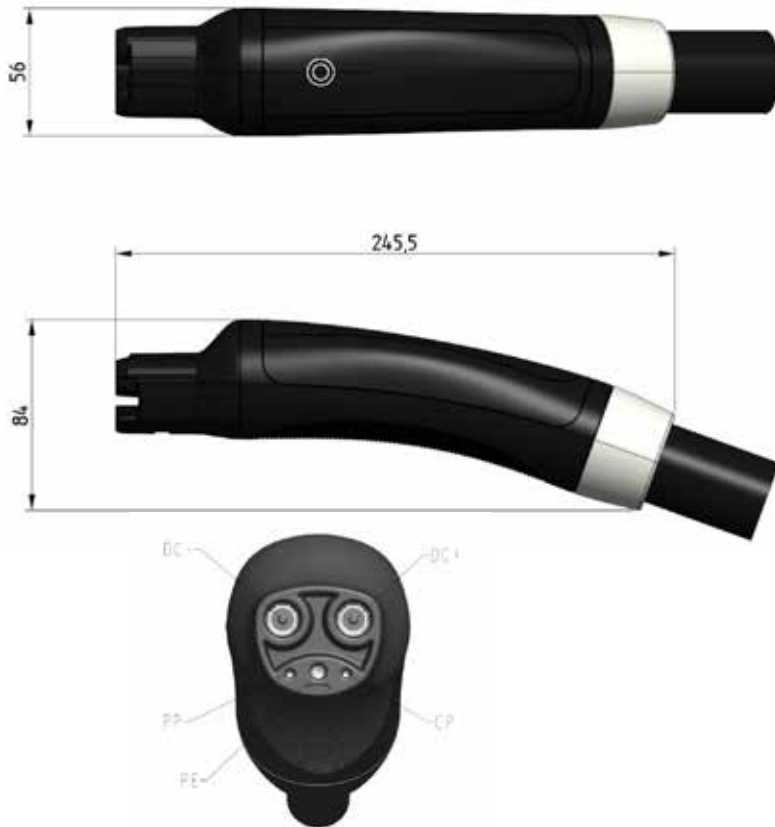
NACS 150 / 250 / 375A

DC Charging Cable

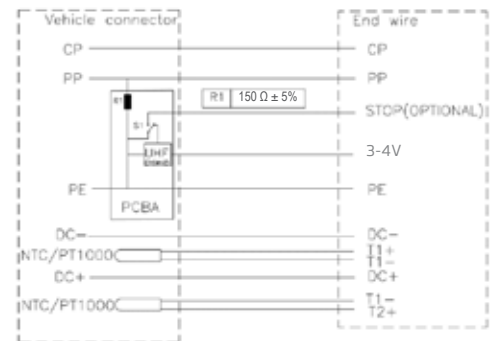


PRODUCT DEFINITION			
Charging Standard	SAE J3400		
Approvals & Certification	UL 2251, CSA C22.2 NO. 282		
DIMENSIONS CHARGING CONNECTOR			
Width	56 mm		
Height	84 mm		
Depth	245.5 mm		
Cable Length & End Treatment	5.5 m, 6.1 m, 7.6 m or On Request		
AMBIENT CONDITIONS			
Ambient Temperature (Operation)	-40°C to +55°C		
Ambient Temperature (Storage / Transport)	-40°C to +105°C		
Max. Altitude	4000 m (above sea level)		
Operating Humidity	Up to 95% RH, Condensing		
UV Resistance	F1 per UL 746C		
Degree of Protection (Unmated)	Type 4 / IP67		
Flammability Rating	UL94-V0		
ELECTRICAL PROPERTIES			
Number of Phases	DC		
Rated Voltage for Power Contacts	1000V DC		
Rated Current for Power Contacts	150A	200A / 250A	375A
Maximum Charging Power	150 kW	200 kW / 250 kW	375 kW
Number of Power Contacts	3 (DC-, DC+, PE)		
Temperature Sensor Type	2 * PT 1000		
Temperature Sensor Threshold	90°C		
Number of signal contacts	2 (CP, PP)		
Note on the Connection Method	Crimp Termination (cannot be disconnected)		
Resistor Coding (between PE and CS)	150 Ω		
UHF Transmitter (Optional)	Silicon Labs Si4010-C2-ATR		
UHF Transmitter Frequency (Optional)	315 MHz		
UHF Transmitter Voltage (Optional)	3 - 4V		
MECHANICAL PROPERTIES			
Mating Cycles	> 10,000		
Insertion Force	< 90 N		
Withdrawal	< 90 N		
Rated Drop Resistance	200 Drops		

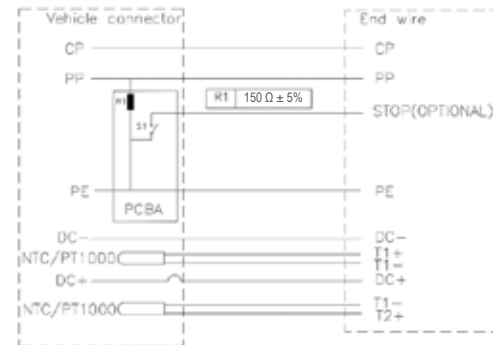
NACS DC MECHANICAL DRAWING



CONNECTION DIAGRAM:



CONNECTION DIAGRAM:



MATERIAL

Material Housing / Handle Area	Plastic
Material Mating Face	Plastic
Flammability Rating	V0
Material Contacts	Cu-Alloy

DESIGN

Housing / Handle Area Colour	Black
Mating Face / Locking Lever Colour	Black
Housing with Customer Logo	On Request

CABLE

CABLE IS UL-R (SET APPROVAL IS REQUIRED WHEN USING EVC CABLE)

AMPERAGE	CABLE STRUCTURE	CABLE O.D.
150A	EVC 5 X 5AWG + 8 x 18AWG	27 mm
200A / 250A	EVC 5 X 3AWG + 8 x 18AWG	30 mm
375A	EVC 4 x 1/0AWG + 1 x 6AWG + 8 x 18AWG	36.5 mm

CABLE RESISTANCE AT 20°C

1/0AWG	3AWG	5AWG	6AWG	18AWG
≤ 0.351 Ω/km	≤ 0.70 Ω/km	≤ 1.11 Ω/km	≤ 1.40 Ω/km	≤ 22.4 Ω/km

Cable Standard	UL 62
Type of Conductor	Per Above Construction
Outer Sheath Material	TPE
Outer Sheath Colour	Black

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.