

NACS 80A DC

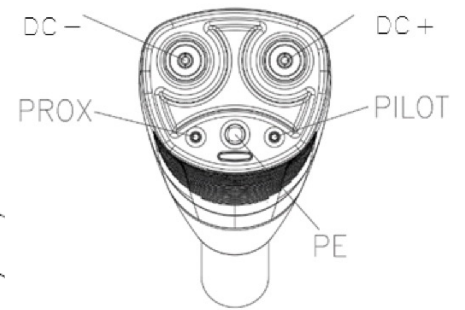
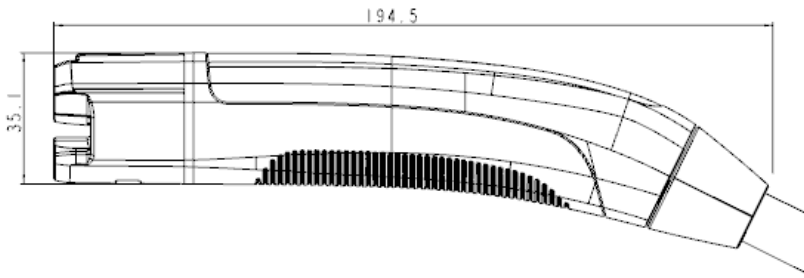
Charging Connector

+ Charging Cable

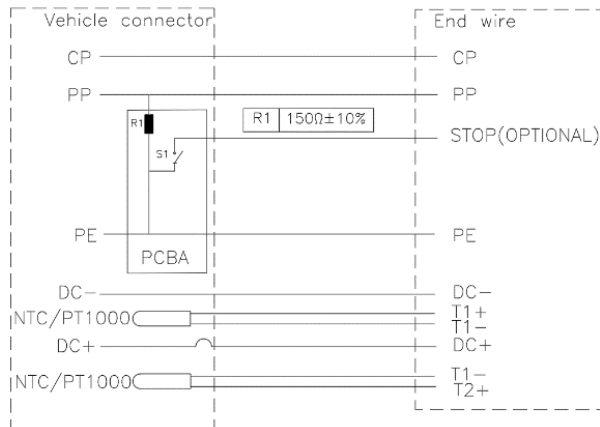


PRODUCT DEFINITION	
Charging Standard	SAE J3400
Approvals & Certification	UL 2251, CSA C22.2 NO. 282
DIMENSIONS CHARGING CONNECTOR	
Width	41.5 mm
Height	35.1 mm
Depth	194.5 mm
Cable Length & End Treatment	5.5 m, 6.1 m, 7.6 m or On Request
AMBIENT CONDITIONS	
Ambient Temperature (Operation)	-40°C to +50°C
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
ELECTRICAL PROPERTIES	
Number of Phases	DC
Rated Voltage for Power Contacts	1000V
Rated Current for Power Contacts	80A
Maximum Charging Power	80 kW
Number of Power Contacts	3 (DC+, DC-, PE)
Temperature Sensor Type	2 * NTC / 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)	480 Ω (lever operated) 150 Ω (lever not operated)
UHF Transmitter (Optional)	Silicon Labs Si4010-C2-ATR
UHF Transmitter Frequency (Optional)	315 MHz
MECHANICAL PROPERTIES	
Mating Cycles	> 10,000
Insertion Force	< 90 N
Withdrawal	< 90 N
Rated Drop Resistance	200 Drops
Replaced component	HV Terminal & Plug Head

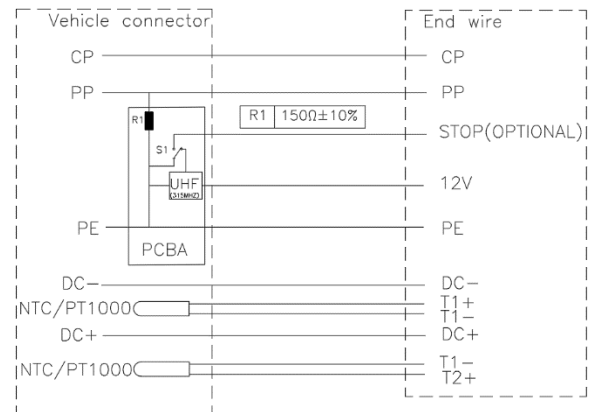
NACS DC MECHANICAL DRAWING



CONNECTION DIAGRAM:



CONNECTION DIAGRAM:



MATERIAL

Material Housing / Handle Area	Plastic
Material Mating Face	Plastic
Flammability Rating	VO
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.
80A	EVC 2 x 6AWG + 1 x 8AWG + 8 x 22AWG	19.1 mm

CABLE RESISTANCE AT 20°C

6AWG	8AWG	22AWG
≤ 1.4 Ω/km	≤ 2.23 Ω/km	≤ 56.8 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.