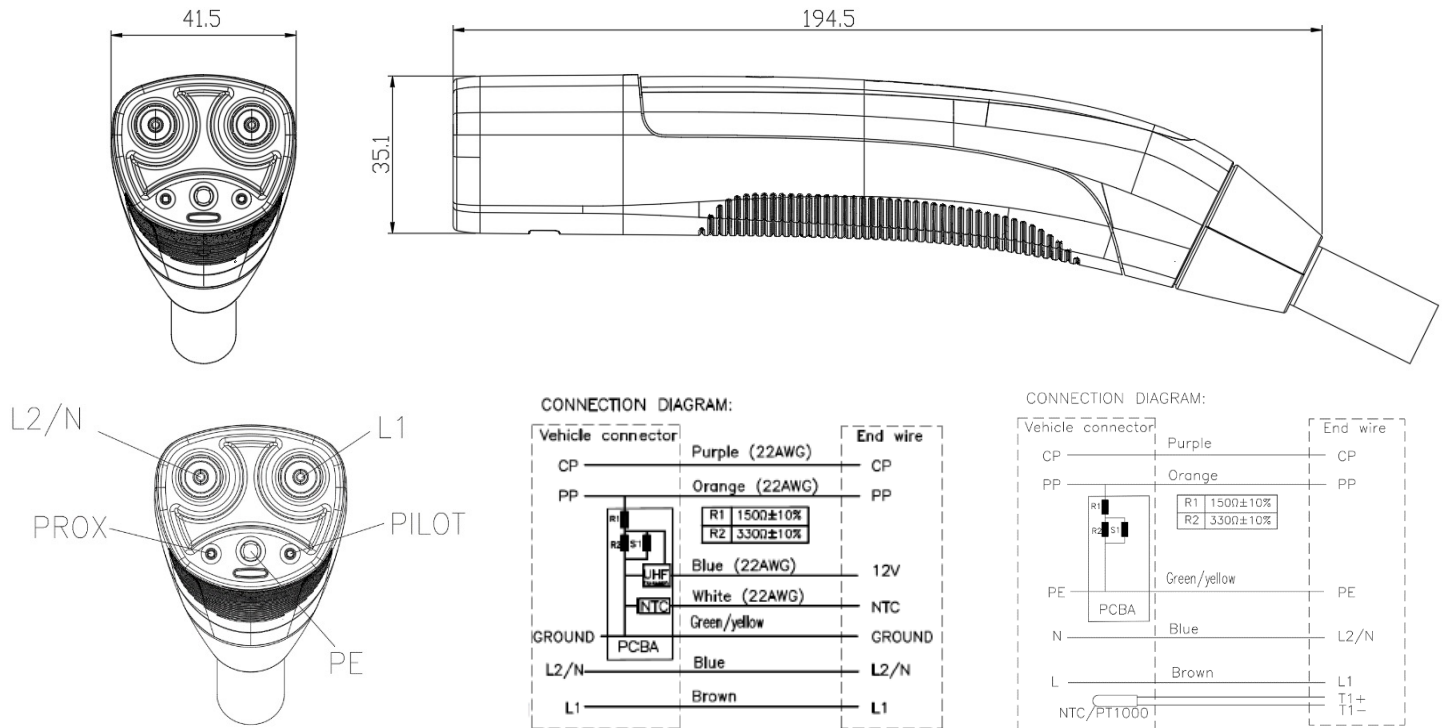


NACS 40A / 48A / 80A Charging Cable



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	1		
Rated Voltage for Power Contacts	240V AC		
Rated Current for Power Contacts	32A / 40A	48A / 50A	80A
Maximum Charging Power	7.7 kW / 9.6 kW	11.5 kW / 12 kW	19.2 kW
Number of Power Contacts	3 (L1, N, PE)		
Temperature Sensor Type	NTC 10K		
Temperature Sensor Threshold	75°C (NTC on PCBA) 90°C (NTC on Terminal)		
Insulation Resistance	≥ 100 MΩ		
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)		
MECHANICAL PROPERTIES			
Mating Cycles	> 10,000		
Insertion Force	< 90 N		
Withdrawal	< 90 N		
Rated Drop Resistance	200 Drops		

NACS MECHANICAL DRAWING



MATERIAL		DESIGN	
Material Housing / Handle Area	Plastic	Housing / Handle Area Colour	Black
Material Mating Face	Plastic	Mating Face / Locking Lever Colour	Black
Flammability Rating	VO	Protective Cap Colour	Black
Material Contacts	Cu-Alloy	Housing with Customer Logo	On Request

CABLE

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

AMPERAGE	CABLE STRUCTURE	CABLE O.D.	PHASE
32A / 40A	3 x 10AWG + 4 x 22AWG	12 mm	1 Phase
48A / 50A	2 x 8AWG + 1 x 10AWG + 4 x 22AWG	14.5 mm	
80A	2 x 6AWG + 1 x 10AWG + 6 x 22AWG	19.1 mm	

CABLE RESISTANCE AT 20°C

6AWG	8AWG	10AWG	18AWG	22AWG
≤ 1.4 Ω/km	≤ 2.23 Ω/km	≤ 3.51 Ω/km	≤ 22.4 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.