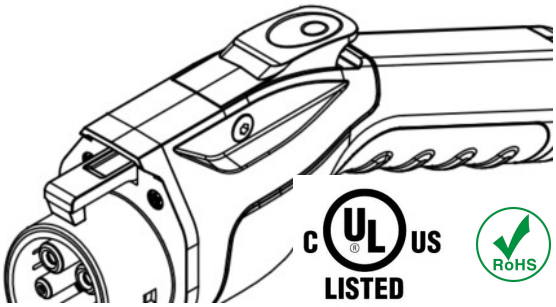
Installation Instructions

EVCC Series

J1772 Electric Vehicle Charging Cables

These UL certified J1772 EV charging cables provide a robust and reliable replacement solution for cables on Level 2 charging stations that have either exceeded their useful life or have been damaged. The durable overmolded charging guns are rated for 10,000 mating cycles.



PRODUCT SPECIFICATIONS

Charging Connector	SAE J1772
Wiring Terminations	Pre-Stripped L1, L2, G, CP
Rated Voltage	240 V Single-Phase
Rated Current	EVCC-1772L232-18, 32 A EVCC-1772L240-18, 40 A EVCC-1772L248-18, 48 A EVCC-1772L280-18, 80 A
Cable Length	18’
Mating Cycles	10,000
Mating Force	<75 N
Operating Temperature	-30°C to +50°C

WARNING!

Only qualified personnel should install or service this system. Electrical safety precautions must be followed when installing or servicing this equipment. **To prevent risk of electrical shock, turn off and lock out/tag out all power sources to the unit before making electrical connections or servicing.**

For safe operation, ground MUST be reliably connected.

INSTALLATION

Removal of Existing Charging Cable – After turning off all power sources, follow the charging station manufacturer’s instructions for removing the cover to the cable wiring terminals, and uninstall all conductors.

Installation of Replacement Charging Cable – Connect the L1, L2, G/PE and CP conductors to the appropriate wiring terminals within the charging station referencing the schematic diagram in Figure 1 and the AC power service diagrams in Table 1. Finally, follow the manufacturer’s instructions to replace the cover for the cable wiring terminals.

Verifying Operation of Replacement Charging Cable – Turn power sources back on. Connect the cable to a compatible electric vehicle and verify charging rate meets expected applicable specifications.

NOTE 1: The Control Pilot (CP) pin provides bi-directional communications between the EV and the charging system, and checks the maximum amount of current that the EV is able to consume.

NOTE 2: The Connection Signal (CS) pin monitors the connection of the charging gun to the EV. Charge current will not flow to the EV if the CS pin is not connected, and the EV cannot drive away while the CS pin is connected.

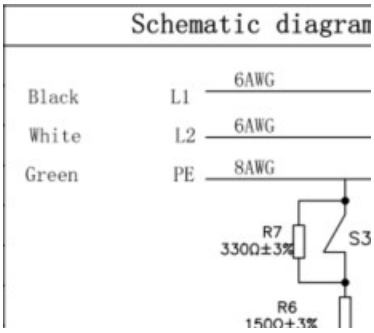


Figure 1 – Charging cable wiring schematic

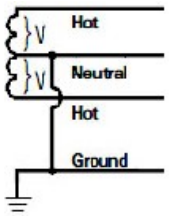
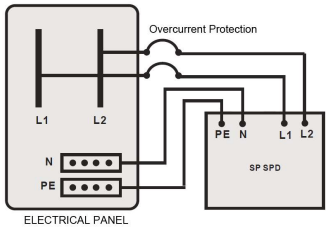
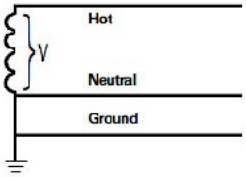
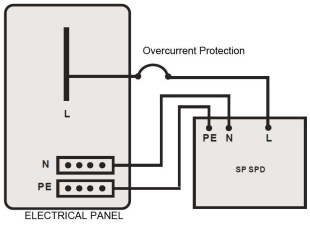
Part No.	Nominal Voltage (50/60Hz)	Rated Current	Service Diagrams	Wire Connections
EVCC-1772L232-18 EVCC-1772L240-18 EVCC-1772L248-18 EVCC-1772L280-18	120/240 V	32 A 40 A 48 A 80 A	Split phase 	
EVCC-1772L232-18 EVCC-1772L240-18 EVCC-1772L248-18 EVCC-1772L280-18	120 V	32 A 40 A 48 A 80 A	Single phase, 2W+G 	

Table 1 - AC power service diagrams wire connections

TROUBLESHOOTING

If the charging cable fails to energize, check all connections and voltages to the unit. If all connections are made and reliable, and proper voltages are supplied to the unit, please contact www.transtector.com.

DIMENSIONS Note: units are in mm