

# INSTRUCTIONS CP-250E-60/72-208/240-MC4-MTC

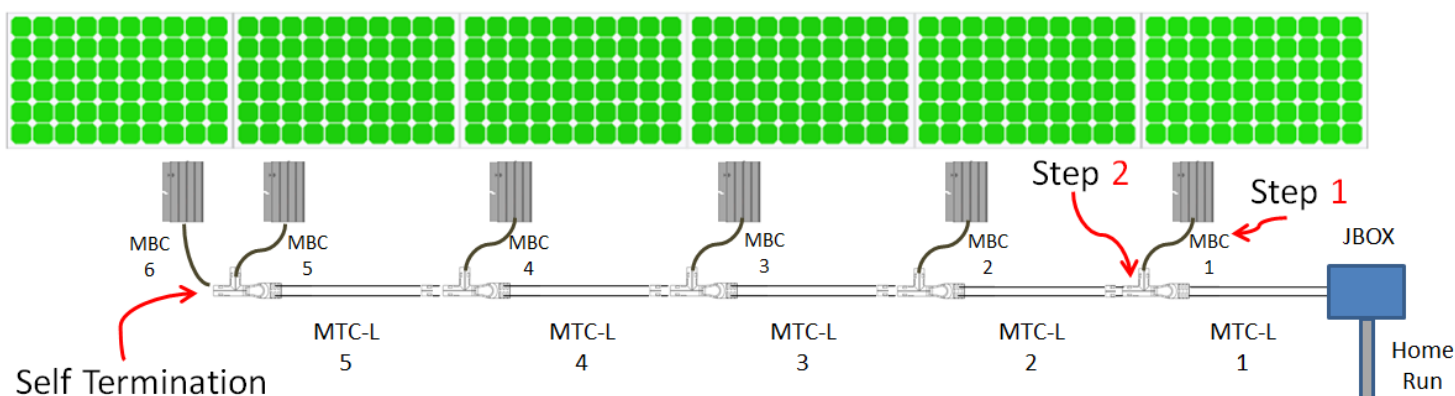
## STEP1: DC CONNECTION



**IMPORTANT:** ALWAYS CONNECT DC FIRST. DO NOT ENERGIZE AC BUS TO INVERTERS UNTIL ALL INVERTERS HAVE BEEN DC POWERED **WITH ENOUGH SUN LIGHT** (LED code continuously blinking)

## STEP2: AC CONNECTOR – INSTALLATION PROCEDURE

- 1) Place the modular branch connector (MBC) on the inverter FIRST. This will make it easier to align the small pins on the inverter with the connector. They self-align and are keyed.
- 2) Join the larger connector of the MBC to the T-Junction of the modular trunk cable (MTC).
- 3) Chilicon's 10AWG trunk cable allows up to 20 inverters (240V) or 18 inverters (208V) on one string.



## LED CODES

### AFTER DC is applied

Blink Sequence	Meaning
Slow, 1 blink every 4 seconds	DC Connected, <b>NOT Ready for AC</b> to be applied
Continuous Blinking	DC Connected, <b>Ready for AC</b> to be applied (see step 1 warning)

### AFTER AC is applied

Blink Sequence	Meaning
1 blink every 16 seconds	<b>Normal</b> operation, inverter bound to gateway
1 blink every 8 seconds	<b>Normal</b> operation, inverter not bound to gateway
2 blinks every 4 seconds	Inverter phase locked to Grid, no export, no errors
3 or 4 blinks every 4 seconds	<b>Error:</b> Grid voltage out of range
5 blinks every 4 seconds	<b>Error:</b> PV module voltage out of range

## WIRING FOR COMMUNICATION TO THE GATEWAY (240 V SPLIT-PHASE SYSTEMS)

Chilicon Power trunk cables have 4 color-coded conductors: **RED, BLACK, WHITE, GREEN**

**BLACK** and **WHITE** conductors are for the PLC communication. The same grid line (**BLACK**) must be used to connect the inverter to the Gateway to ensure robust communication. Specifically, the Gateway inside the home (120 V) should be powered using **GRID HOT LINE B** (= **BLACK** trunk conductor) and **GRID NEUTRAL** (= **WHITE** trunk conductor).

**NOTE:** Communication with the Gateway is usually fine even if the Gateway is connected in the wall socket to the **RED** and **WHITE** trunk-equivalent wires. However, the signal will be weaker. The Gateway socket survey screen indicates the strength of the signal. In the worst case, you simply have to swap the **RED** and **BLACK** trunk wires on the breaker or at the AC disconnect.

**NOTE:** Miss-wiring AC grid lines to the inverter trunk (for instance swapping a GRID L1 for GRID NEUTRAL) will not damage the inverters. However, they will not export power in this configuration. If inverters are miss-wired, LED single blink export confirmation from the LED will never be established.

**WARNING:** NEVER CONNECT **GREEN** to a Live Wire **Max units = 20 (240V) or 18 (208V) / String**

### Solar AC Subpanel

