CABLING GUIDE

Suggested approaches for common configurations

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www.chiliconpower.com

(310) 800-1396
CABLE & ACCESSORIES

- MBC – Modular Branch Cable
  - Connects each micro to the trunk cable
  - Now integrated into the microinverter
- MTC – Modular Trunk Cable
  - 1.025m, 1.7m & 2.15m
- MTC-JBOX – J-Box whip
- T6-WTRPRF male end cap
- AC & DC disconnect tools
MICROINVERTER CONNECTION TO TRUNK CABLE
## LEGEND FOR COMMON CONFIGURATIONS PAGES

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<th>PART</th>
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<td>Microinverter Cable</td>
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<td>CP-MTC-1.025</td>
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<td>CP-MTC-1.7</td>
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<td>CP-MTC-2.15</td>
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<td>CP-MTC-JBOX (whip)</td>
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<td>CP-720-dBC (microinverter)</td>
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Module orientation
Module junction box (diodes)
DC cables from the module junction box
Microinverter cable
Trunk cable: CP-MTC-2.15
(N-1) cables required for N microinverters
Trunk cable whip: CP-MTC-JBOX
End cap: CP-WTRPRF-CAP
Duo microinverter: CP-720 - dBC

30A Breaker
C60 OR 72 CELL PORTRAIT-TWO ROWS

Module junction box (diodes)
DC cables from the module junction box
Microinverter cable
Trunk cable: CP-MTC-1.025
(N-2) cables required for N microinverters
Trunk cable whip: CP-MTC-JBOX
Duo microinverter: CP-720 - dBC
60 CELL LANDSCAPE-TWO ROWS

- Module junction box (diodes)
- DC cables from the module junction box
- Microinverter cable
- Trunk cable: CP-MTC-1.7 (N-2) cables required for N microinverters
- Trunk cable whip: CP-MTC-JBOX
- Duo microinverter: CP-720
- 30A Breaker
72 CELL LANDSCAPE-TWO ROWS

Module junction box (diodes)
DC cables from the module junction box
Microinverter cable
Trunk cable: CP-MTC-2.15 (N-2) cables required for N microinverters
Trunk cable whip: CP-MTC-JBOX
Duo microinverter: CP-720-dBC

30A Breaker
**60 CELL LANDSCAPE-ONE ROW**

Module junction box (diodes)

DC cables from the module junction box

Microinverter’s MBC cable

Trunk cable: CP-MTC-1.7

2(N-1) cables required for N microinverters

Trunk whip: CP-MTC-JBOX

End cap: CP-WTRPRF-CAP

(N) caps required for N microinverters

Duo microinverter: CP-720-dBC
Module junction box (diodes)
DC cables from the module junction box
Microinverter cable
Trunk cable: CP-MTC-2.15
2(N-1) cables required for N microinverters
Trunk cable whip: CP-MTC-JBOX
End cap: CP-WTRPRF-CAP
(N) caps required for N microinverters
Duo microinverter: CP-720-dBC
Module junction box (diodes)
DC cables from the module junction box
Microinverter cable
Trunk cable: CP-MTC-2.15 (N-1) cables required for N microinverters
Trunk cable whip: CP-MTC-JBOX
End cap: CP-WTRPRF-CAP
Duo microinverter: CP-720-dBC
Single microinverter: CP-250E-iBC

30A Breaker
60 OR 72 CELL PORTRAIT
“INVERTED T” CONFIGURATION

Cables required:
CP-MTC-1.025  5
CP-MTC-2.15   1
CP-MTC-JBOX   1
Connected modules

Module orientation
60 OR 72 CELL - COMPLEX LAYOUT

Cables required:
- CP-MTC-1.025 4
- CP-MTC-1.7 2
- CP-MTC-2.15 2
- CP-MTC-JBOX 1

Connected modules

For a complex layout, different cable lengths and panel orientations will be required.

Contact Chilicon Power at (310) 579-2449 if you require assistance.
CONNECTING TO SPLIT CELL MODULES

- Split cell modules require more careful consideration of microinverter placement.
- Split cell options: side-by-side or top-bottom

- Minimum DC lead length needed: 1.1 m (>1.2 m recommended)
- Shorter leads will require an additional DC MC4 jumper cable
- Top-bottom may still require an additional DC MC4 jumper cable in some configurations.
- Connection to the module frame may eliminate need for a jumper
TYPICAL SPLIT CELL CONNECTIONS

Place micro DC connectors at edge of PV module

Place micro DC connectors at middle of PV module

Portrait

Landscape
OTHER CONFIGURATIONS

Modules with uneven cable lengths
Note: Modules must be rotated and shorter DC lead must be closest to the micro.

Frame attach option
Attach micro to frame using either M8 -1.25 or ¼” dia. bolt or MLPE Mount (such as Unirac 008114M)