

# gen<sup>2</sup> Electrical Connections



## Color Coding

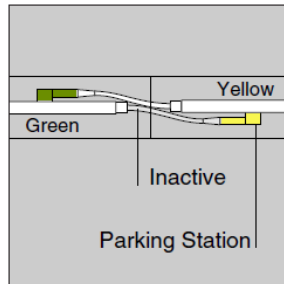
Color coding on powerways designates opposing ends of the powerway.

- Green represents the power-in end.
- The Yellow end can be used to extend the network to an adjacent powerway.

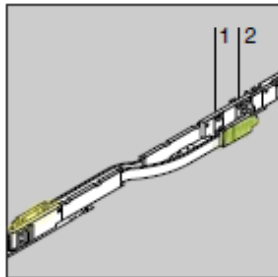
## Connections

**Two rules** for joining powerways apply to every installation:

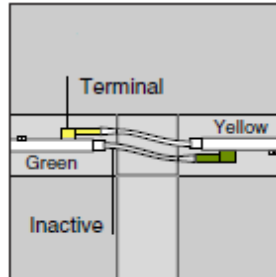
- There must be at least one green end at each intersection.
- There can be no more than one yellow end at each intersection.



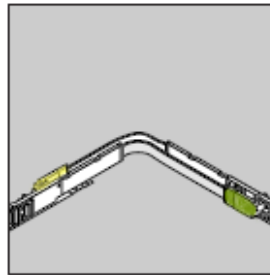
**Flag from the green end** of powerway is inactive. It connects to parking station on adjacent powerway.



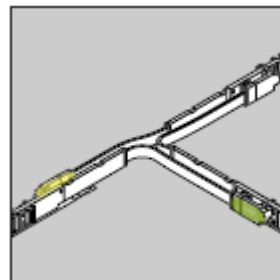
**Straight connection** is formed when a flag connector from the yellow end of one powerway attaches to the second powerblock terminal on the green end of the adjacent powerway.



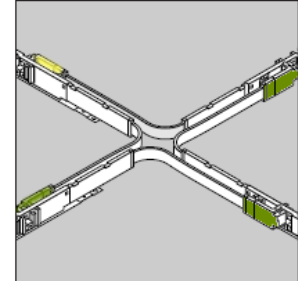
**Straight connection in a T-configuration** requires the flag connector to travel further. It connects from the yellow end of powerway to the first powerblock terminal on the adjacent powerway. Flag from the green end of powerway is inactive and parked on adjacent powerway.



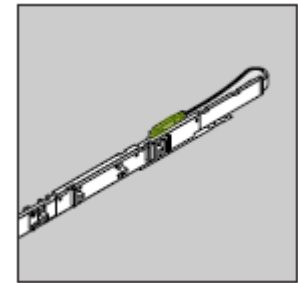
**L-connection** is formed when flag connector turns to left or right.



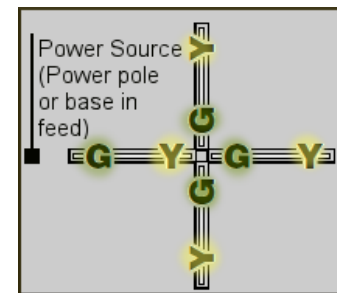
**T-connection** is formed by three flags—two forming an L-connection and the other a straight connection at the junction.



**X-connection** is formed by three flags that make right turns. Remaining connection is inactive.



**End of run** is terminated by folding the last flag back and connecting it to its own powerblock terminal.



**Although it is possible** to power all four panels in an X-configuration with only green ends at the intersection, it is not recommended. One end of a powerway in the intersection should be yellow.



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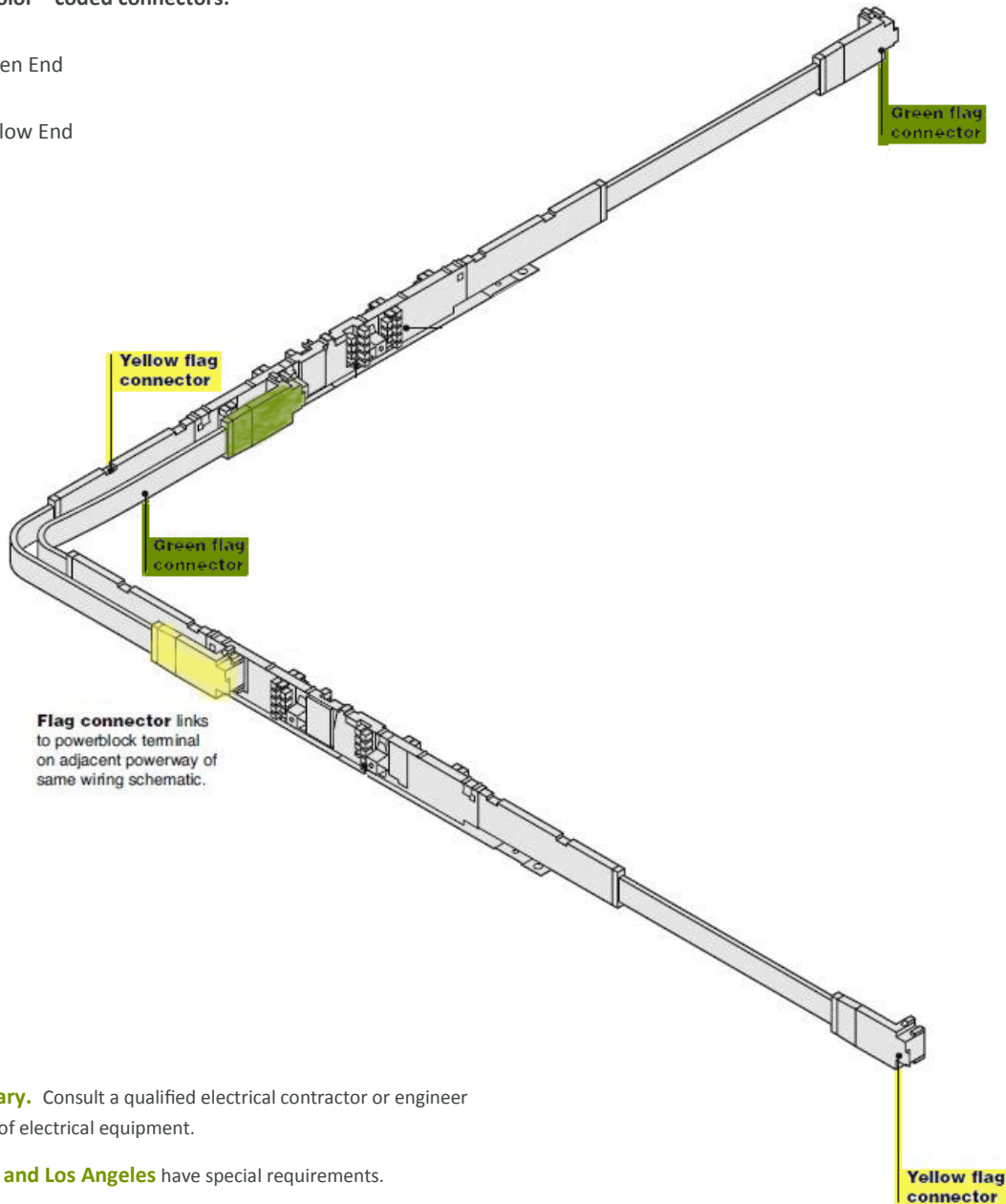


## Powerways

**Powerways** that are installed in the panel base cavity allow power to be distributed wherever panels go.

**Powerways have two color—coded connectors:**

-  Green End
-  Yellow End



**Local electrical codes vary.** Consult a qualified electrical contractor or engineer for the proper installation of electrical equipment.

**Chicago, New York City and Los Angeles** have special requirements.

**Powerways are concealed** when they are properly installed.

