# Power/Data Tile and Components

## Tools Required

- Cordless Drill/Driver
- #2 Phillips Screwdriver Bit
- Rubber Mallet
- Flat Blade Screwdriver

## Installation

***Note:*** *Mid-height block brackets must be staggered when using power/data tiles on opposite sides of a run. Independent and shared neutral components cannot be mixed.*

1. Lay tile face down on a non-marring surface. Remove filler plates where receptacles are to be located. From inside tile, carefully press small tabs to remove. Plate(s) may be stored taped to inside of tile. (Figure I).
2. Place mid-height block brackets with flanges down outside of tile. Face block cutouts toward ends of tile. (Figure A).
3. With north arrow pointing toward top of tile, insert mid-height block in block cutout. Align holes in wings of mid-height block with holes in mid-height block bracket. Attach with two screws provided. (Figure A). Repeat for all mid-height blocks and mid-height block brackets.
4. Plug base-to-tile jumper into lowest mid-height block socket closest to inside of tile. Push in until clips snap onto block. (Figure B).
5. Feed base-to-tile jumper down through mid-frame supports.
6. With north arrow pointing up, plug mid-block jumper into mid-height block socket closest to face of tile and plug into next mid-height block. Push in until clips snap onto blocks. (Figure C). Repeat to jump power to all mid blocks. See page 3 for jumper layouts.

   ***Note:*** *Might need to coil mid-block jumper to be space efficient.*
7. Turn brackets over. Plug receptacle into block. Install two screws provided and tighten to bracket. Repeat for all receptacles. (Figure D).

Figure A

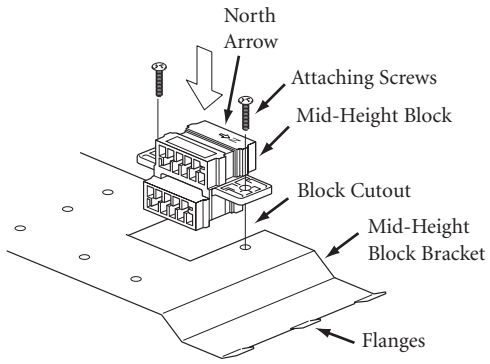



Figure B

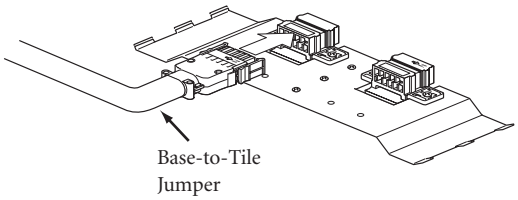



Figure C

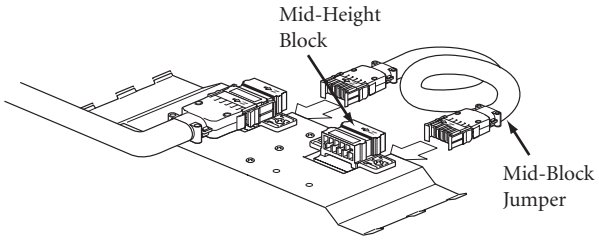
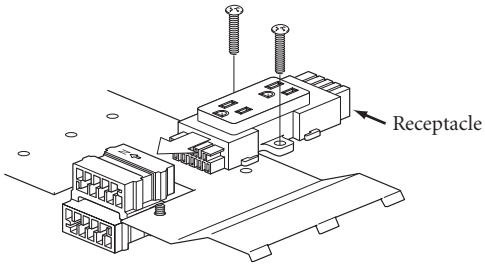



Figure D



## Installation (continued)

8. Install mid-height distribution bracket support centered horizontally and vertically between power/data holes of tile. Wipe clean contact area. Remove backing from tape on legs of bracket. Center bracket between power/data holes and press firmly for five seconds. (Figure E).
9. With bracket flanges down and blocks to the outside end of the tile, engage tabs on ends of bracket flanges into slots on inside edge of tile. Bow bracket slightly at end and engage tabs on opposite end into tile. (Figure F). Repeat for all bracket assemblies.
10. Install three #8 x 1/2" self-tapping screws provided through center of each bracket into support on tile and tighten.
11. Lift top of tile up into Xsite Traxx® and lower into Xsite Traxx below. Slide left or right to align. (Figure G).
12. Snap in data ports where required.
13. Feed jumper through bottom channel and with north arrow pointing up, plug into right hand block of base wireway harness. Install two retaining screws and tighten into harness block. (Figure H).

***Warning:*** *Connection to building power must be completed by a licensed electrician. Installation must be in accordance with National Electrical Code and local codes.*

Figure E

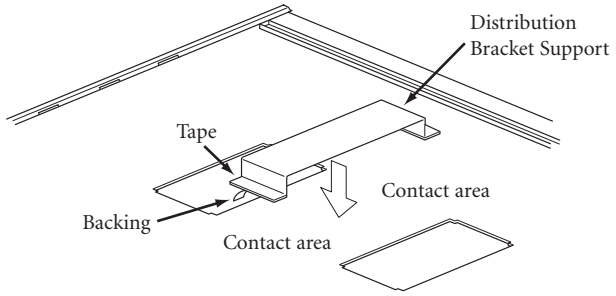



Figure F

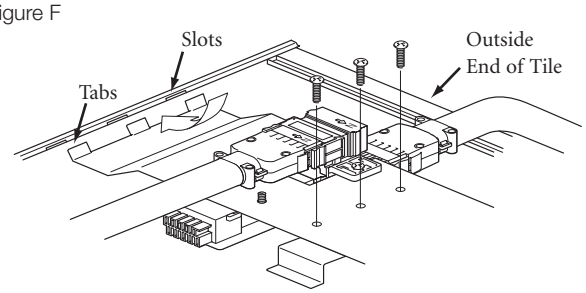



Figure G

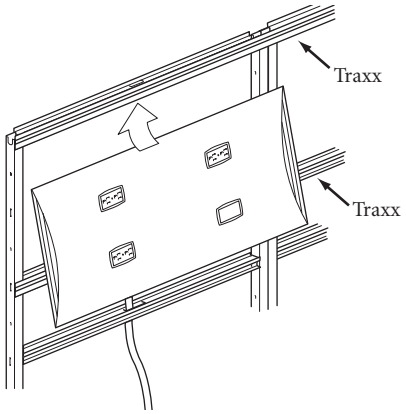
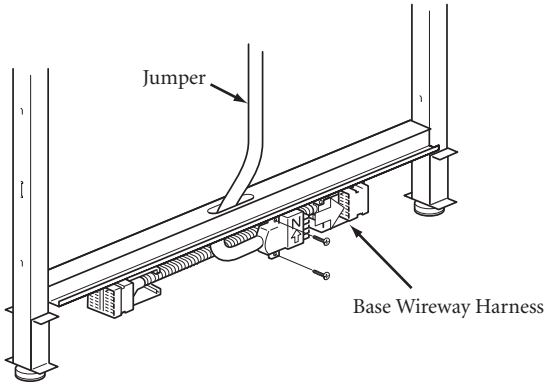



Figure H



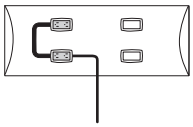
## Installation (continued)

## Power/Data Tile Jumper Planning

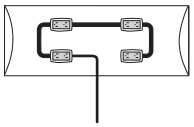
= Mid-Block Jumper
= Base Wireway Pass-Thru Jumper
= Base to Power/Data Tile Jumper

### Jumper Connections One Side of a Run

2 receptacles

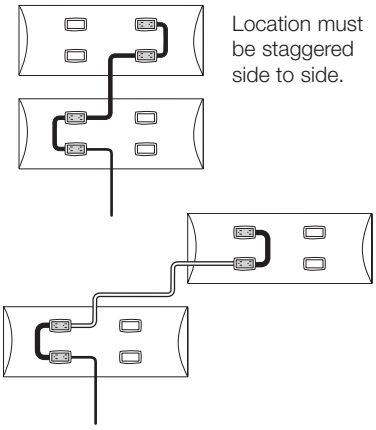


4 receptacles



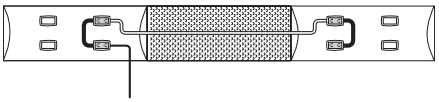
### Jumper Connections Back to Back

2 receptacles per side only



Location must be staggered side to side.

### Jumper Connections Continuous Beltline Power



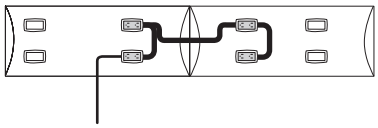
- Tile separating the power/data tiles must be embossed metal. The frame vertical must be at 3" from the end of the metal tile
- Use a base pass-thru jumper to connect two inside mid-block distribution assemblies as shown above:

| *Metal Tile* | *Specify Jumper Model* |
|---|---|
| 24"W | 36P36EPT |
| 30"W | 36P42EPT |
| 36"W | 36P48EPT |

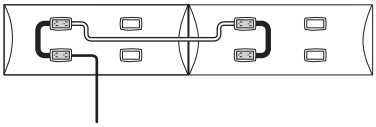
***Note:*** *If metal tile exceeds 36"W, there is no standard jumper size available.*

### Jumper Connections Tile to Tile

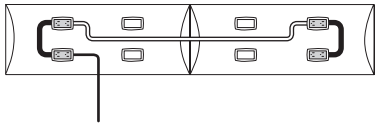
**Option 1**



**Option 2**



**Option 3**

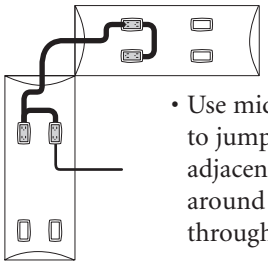


### Selecting the Correct Base Wireway Pass-Thru Jumper

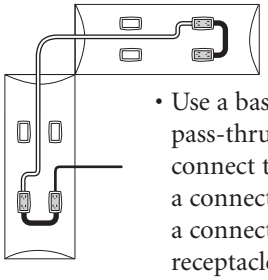
| | | **For Tile to Tile Options 1 & 2** | **For Tile to Tile Option 3 and at Turns** |
|---|---|---|---|
| *Tile 1* | *Tile 2* | *Specify Jumper Model* | *Specify Jumper Model* |
| 30"W | 30"W | 36P30EPT | 36P36EPT |
| 30"W | 36"W | 36P36EPT | 36P42EPT |
| 36"W | 36"W | 36P42EPT | 36P48EPT |

***Note:*** *If tiles are separated by a perpendicular wall, the next size up pass-thru must be used between tiles.*

### Jumper Connections at Connector



- Use mid-block jumpers to jump between adjacent receptacles around a connector or through a connector



- Use a base wireway pass-thru jumper to connect tiles through a connector or around a connector when receptacles are on opposite sides

## Installation (continued)

### Power/Data Tile–Hardwired

***Note:*** *RACO 660, RACO 951 and 844 cover, Decora style receptacles, wires, EMT listed conduit, and fittings to be supplied by contractor. No tiles should be in place on opposite side of frame during this installation. Power/data tiles cannot be used back to back in a hardwire application.*

***Warning:*** *All hardwired connections must be completed by a licensed electrician. Installation must be in accordance with local codes and National Electrical Code.*

1. Remove filler plates where receptacles are to be located. From inside tile, carefully press small tabs to remove. (Plate(s) may be stored taped to the inside of the tile.) (Figure I).
2. Lay tile face down on a non-marring surface.
3. Remove attachment screws from receptacle and carefully center receptacle within trim ring. Mark location of attachment holes. Repeat for all receptacles. (Figure I).
4. Remove trim rings at receptacle locations. Carefully push large tabs to remove. (Figure I).
5. Drill $^{3}/_{16}$" pilot holes as previously marked. (Figure I).
6. Attach wires to receptacle. Feed wire through end of RACO 660 junction box. (Figure J).
7. From front of tile, insert 2 screws removed from receptacle through pilot holes into receptacle and junction box. Tighten screws. (Figure J). Repeat for all receptacles and junction boxes.
8. Cut EMT conduit to length required to reach RACO 951 junction box centered on tile. Feed receptacle wires through anti-short bushings and conduit into junction box. (Figure J). Repeat for all receptacles.

Figure I

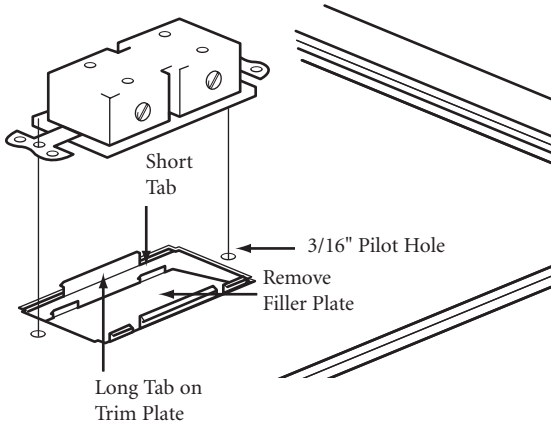



Figure J

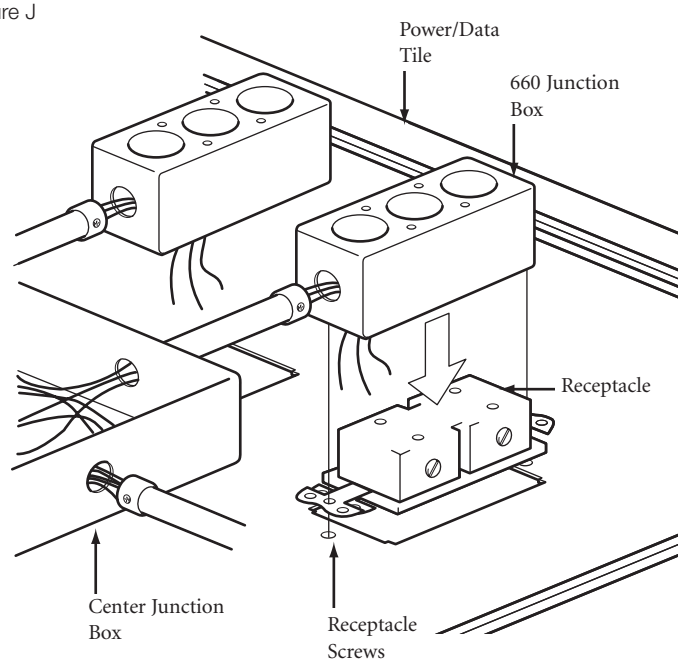
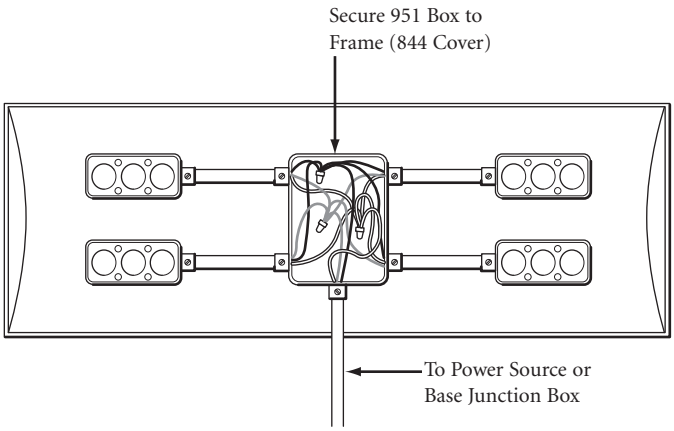



Figure K



## Hardwired Installation (continued)

9. Lift top of tile up into Xsite Traxx and lower into Xsite Traxx below. Slide left or right to align. (Figure G).
10. Secure 951 box to structure frame in accordance with local code. (Figure K). (Reference Article 370 of the Chicago Municipal Electrical Code)
11. Cut and bend conduit to length required to feed down through frame to base wireway junction box. Make appropriate connections of all receptacles in 951 junction box. Install conduit in frame and connect conduit to junction box. Feed wire down through conduit to power source or base wireway junction box. Connect wires. (Figure L).

    ***Note:*** *If bend radius is below code, use a conduit body or pull elbow suitable, to comply with code.*
12. Install RACO 844 cover to center junction box. (Figure K). Install base wireway junction box cover. (Figure L).
13. Snap in all receptacle trim plates. (Figure I).

Figure L