

# esi

assembly instructions

# Railway™

data and power solution

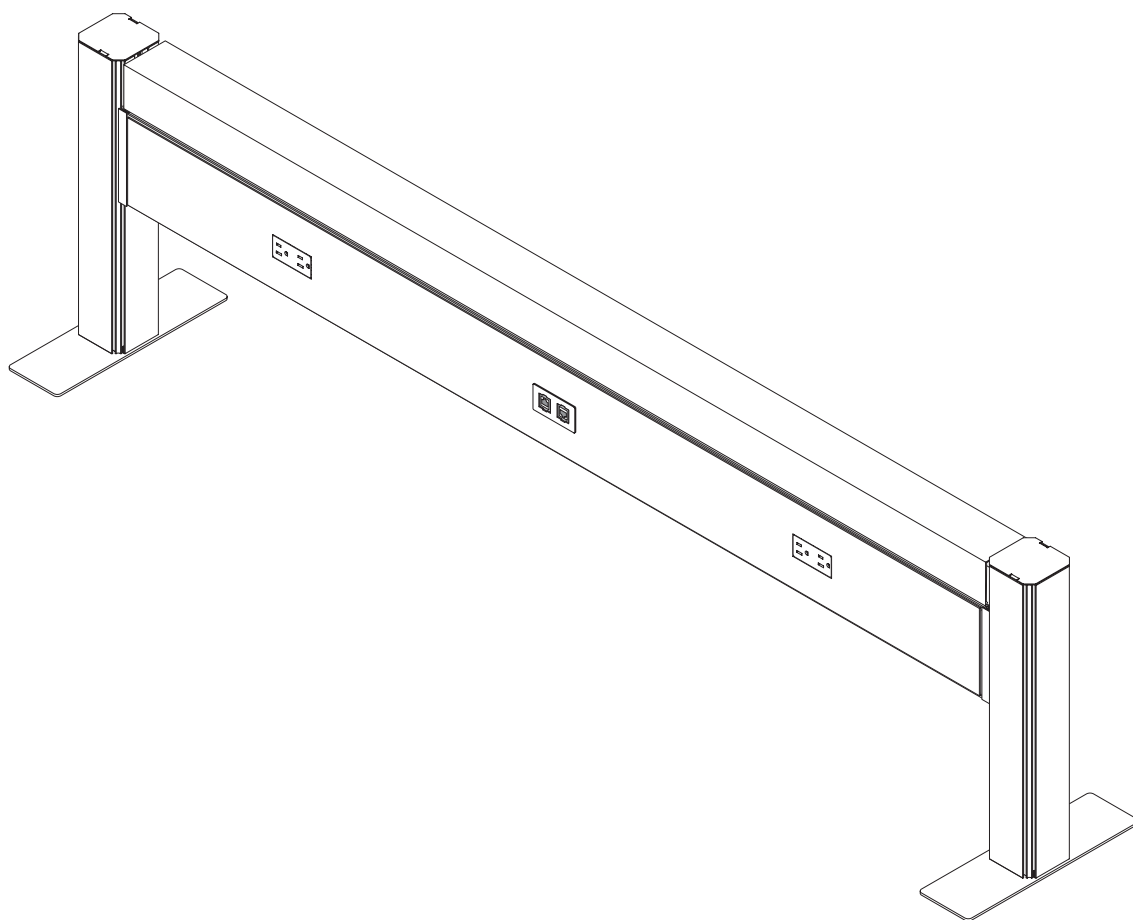
model# RAIL-LINEAR

model# RAIL-90°

model# RAIL-BULLPEN

model# RAIL-3WAY

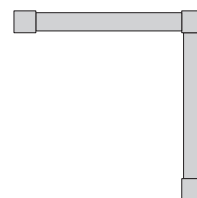
model# RAIL-4WAY



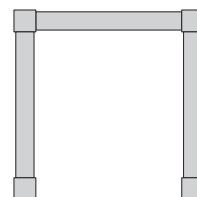
linear



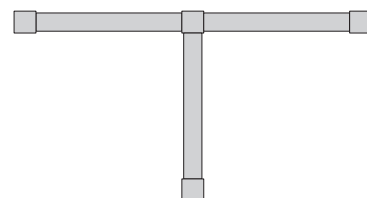
90°



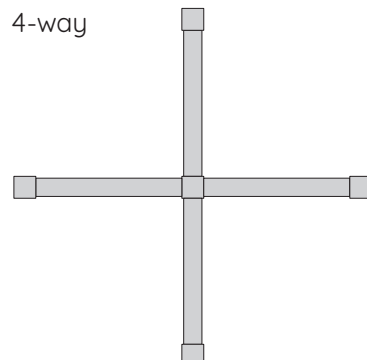
bullpen



3-way



4-way



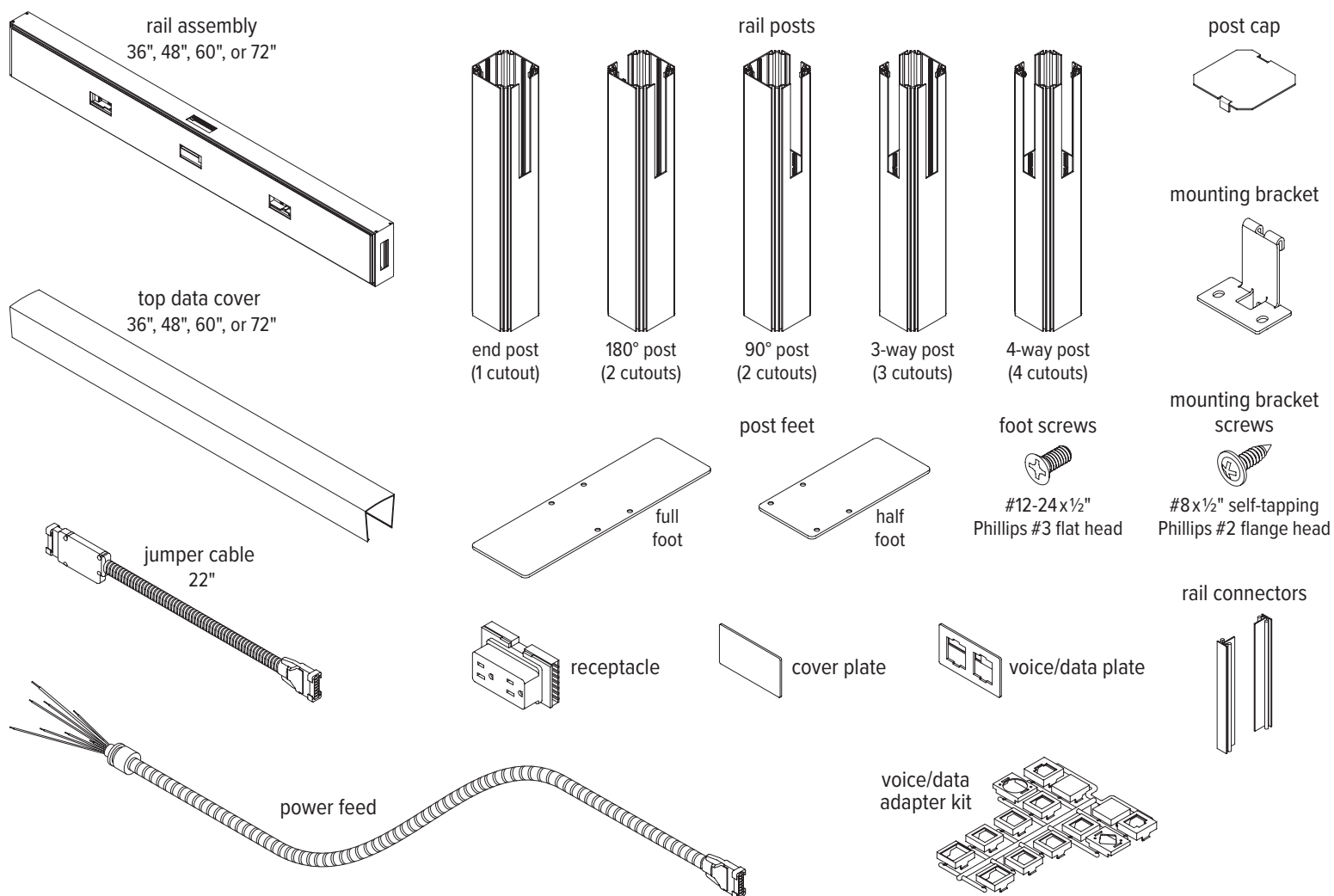


### Safety instructions/warning

- Only a licensed electrician should connect the power feed to building power.
- Connect the power feed to the unit **before** connecting it to building power.

**Please review** these instructions before beginning the installation. Use the illustrations below and the table on the next page to check that the all components needed for your installation were provided with your order. Do not discard the packaging until the product works to your satisfaction.

### Components

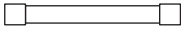
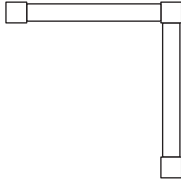
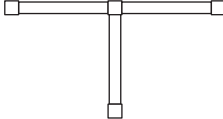
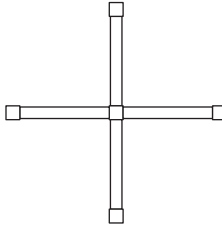
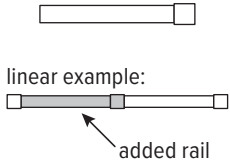


### Tools required

- Phillips screwdriver
- Power drill with Phillips #2 and #3 bits



**The table below** can be used to verify the quantities of each component provided with your order. The minimum number of rails is shown for each configuration. Additional rails may be added to any of the configurations. Use the “additional rail(s)” column to calculate the number of added components per additional rail. Bullpen configurations are configured as a 90degree plus an additional rail with a 90degree post instead of a 180degree. Be sure to read the important notes under the table for further details related to the configurations.

configuration	linear	90°	3-way	4-way	additional rail(s)
					
item	quantity				
rail	1	2	3	4	1 per added rail
rail cover	1	2	3	4	1 per added rail
end post	2	2	3	4	—
180° post	—	—	—	—	1 per added rail (rail added in-line)
90° post	—	1	—	—	—
3-way post	—	—	1	—	—
4-way post	—	—	—	1	—
full or half foot*	2	3	4	5	1 per added rail
foot screws	8	12	16	20	4 per added rail
mounting bracket	2	4	6	8	2 per added rail
mounting bracket screws	6	12	18	24	6 per added rail
rail connectors	4	8	12	16	4 per added rail
post cap	2	3	4	5	1 per added rail
receptacle	2 (single run) 4 (double run)	4 (single run) 8 (double run)	6 (single run) 12 (double run)	8 (single run) 16 (double run)	2 or 4 per added rail (match adjacent rail)
voice/data plate	1 (single run) 2 (double run)	2 (single run) 4 (double run)	3 (single run) 6 (double run)	4 (single run) 8 (double run)	1 or 2 per added rail (match adjacent rail)
voice/data adapter kit	1	2	3	4	1 per added rail
jumper cable	—	1	2	3	1 per added rail
power feed	1	1	1	1	—

## Notes

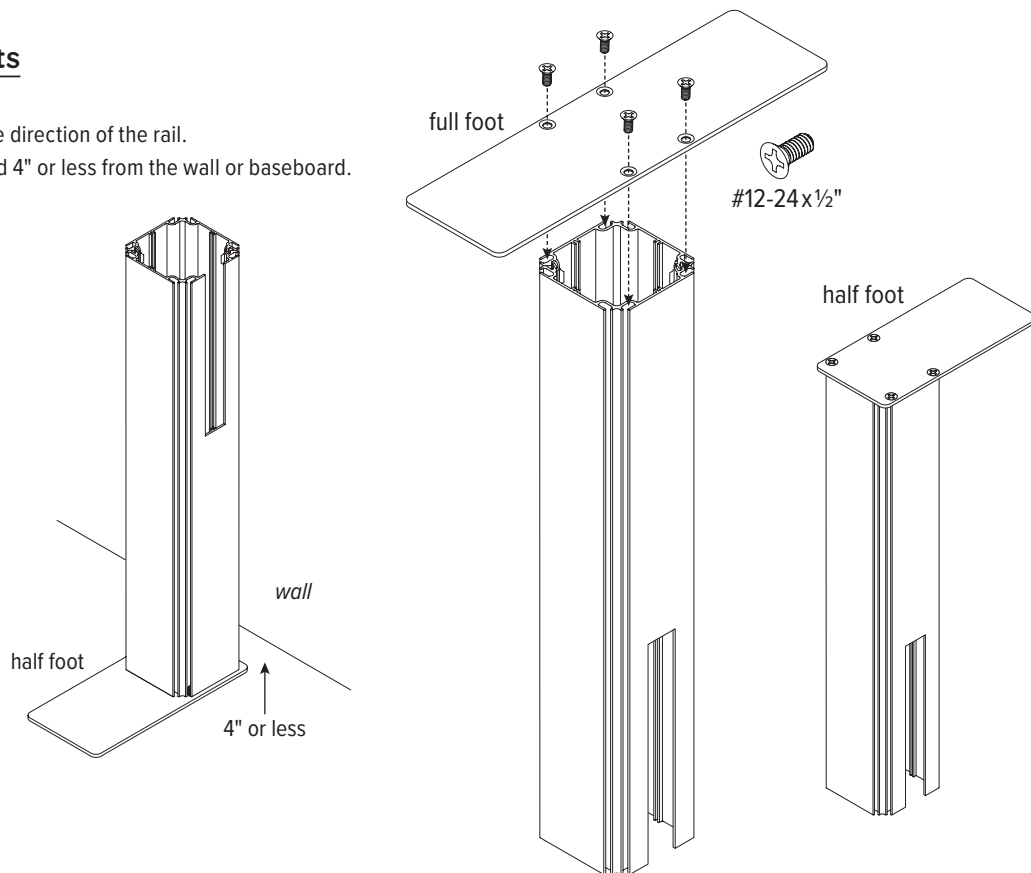
- \*The half foot is used when the unit will be positioned against a wall. Otherwise, the full foot is used.
- Power outlets and voice/data ports can be on one side of the rail (single run) or both sides (double run).
- Cover plates are installed when electrical receptacles or voice/data plates are not used.



The following procedures are for a single rail two-post unit. These basic procedures apply to any Railway configuration. Contact Customer Service if you have any questions at: 800.833.3746

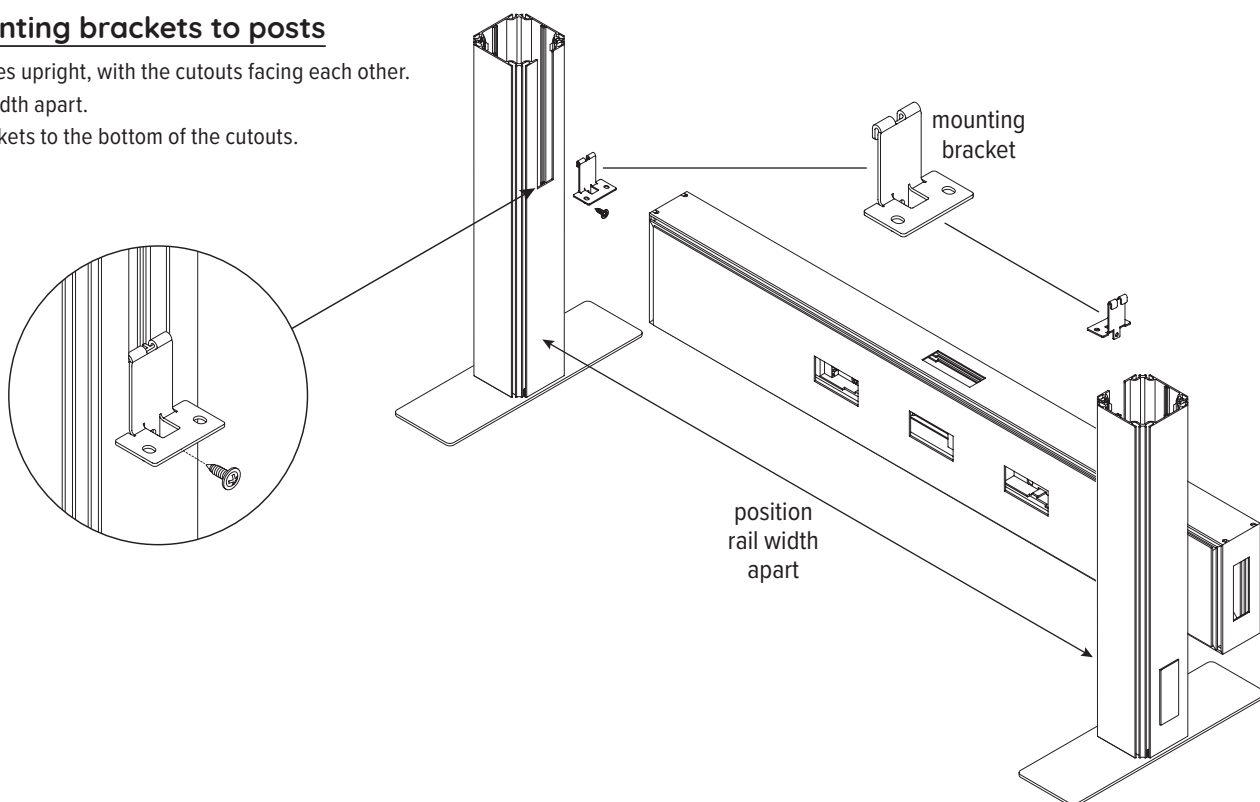
### Step 1: attach feet to base of posts

- Use four Phillips flat head screws per foot.
- Install the full foot or half foot perpendicular to the direction of the rail.
- Use the half foot when the posts will be positioned 4" or less from the wall or baseboard.



### Step 2: hook mounting brackets to posts

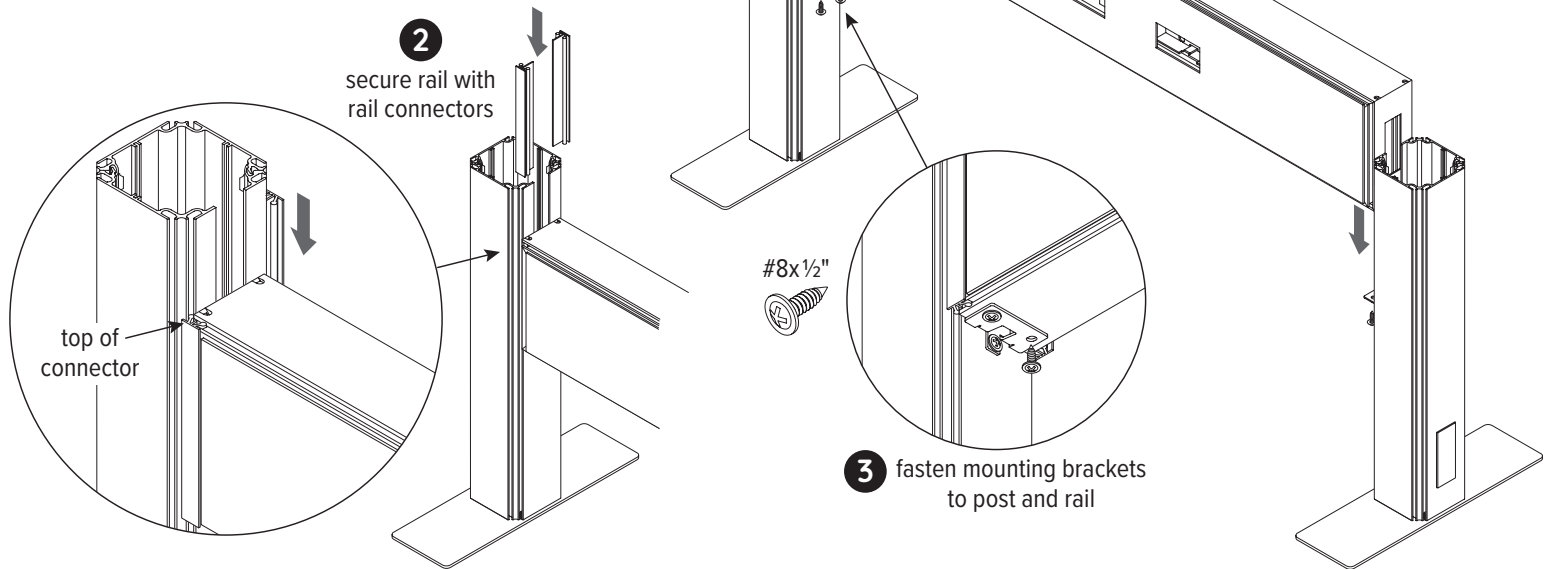
- Stand the post assemblies upright, with the cutouts facing each other.
- Position the posts rail width apart.
- Hook the mounting brackets to the bottom of the cutouts.





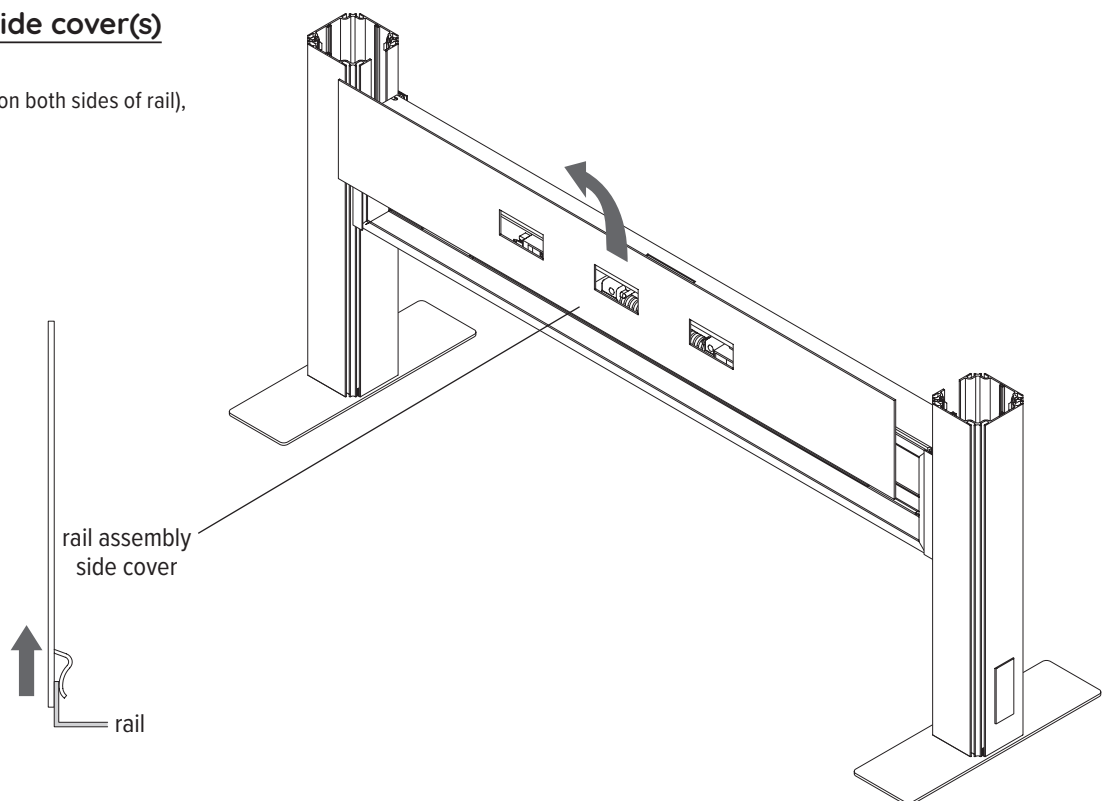
### Step 3: attach rail to posts

- Place the rail onto the mounting brackets.
- Secure the rails to the post using the rail connectors, as shown below.
- Fasten each mounting bracket to the post and rail using three #8 self-tapping Phillips flange head screws.
  - Screw the bracket to the post with a screw through the hole in the tab.
  - Screw the bracket to the rail with two screws through the bottom flange.



### Step 4: remove rail assembly side cover(s)

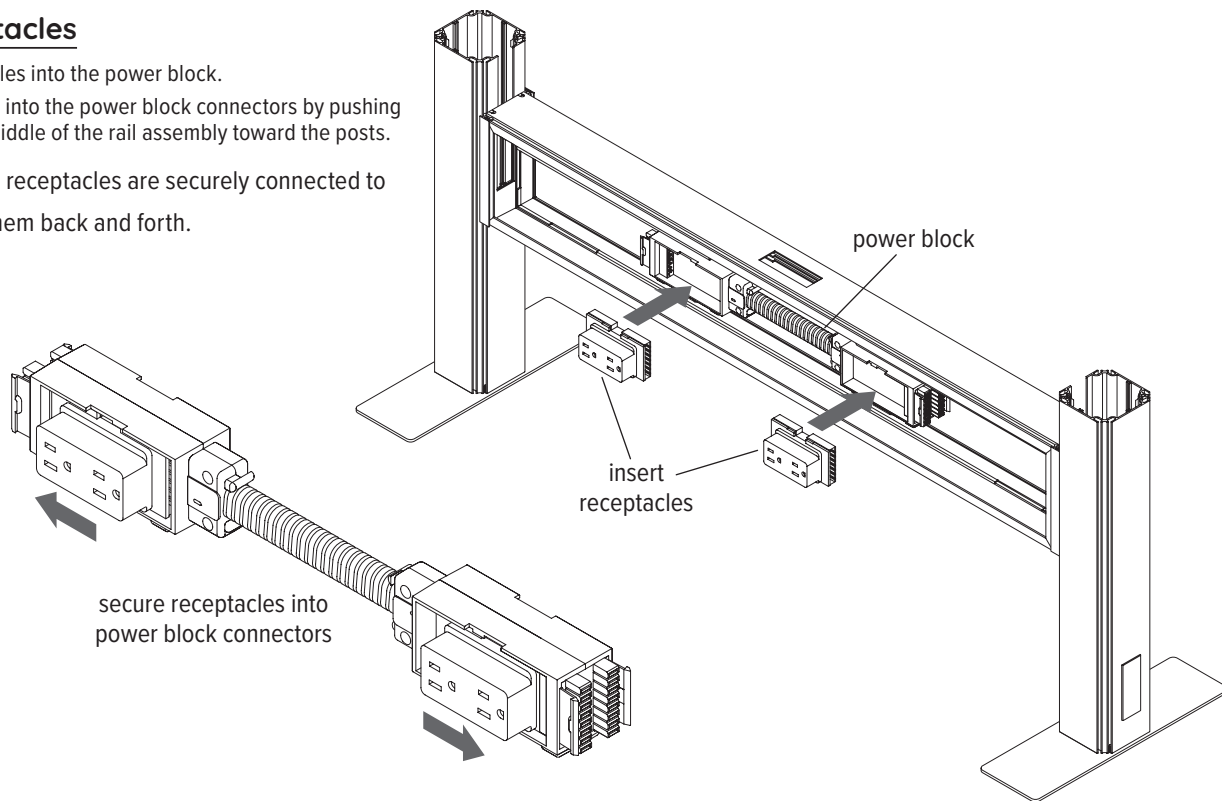
- Lift the side cover from the rail and pull it out.
- If this is a double-run Railway (power outlets on both sides of rail), remove the side cover from both sides.



### Step 5: install receptacles

- Insert the electrical receptacles into the power block.
- Then secure each receptacle into the power block connectors by pushing the receptacles away from middle of the rail assembly toward the posts.

**IMPORTANT:** Check that the receptacles are securely connected to the power block by sliding them back and forth.

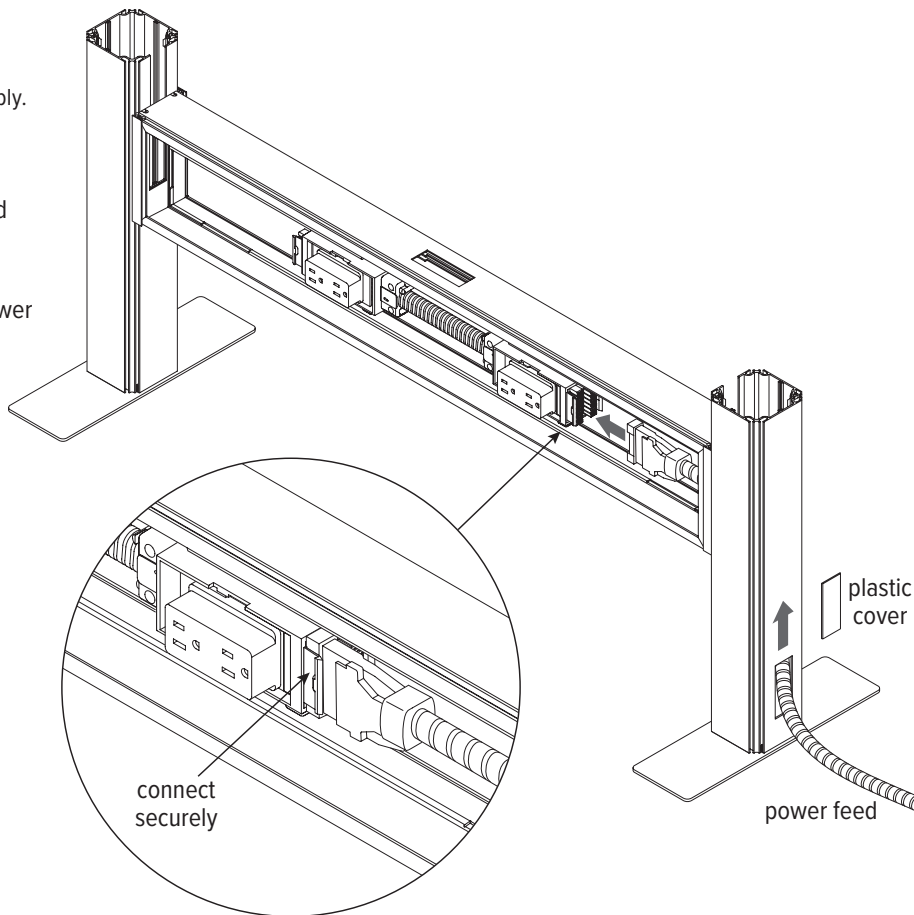


### Step 6: connect power feed to power block

- Remove the plastic cover from the base of the end post.
- Route the power feed up through the post and into the rail assembly.
- Insert the connector on the power feed into the power block.
- Coil the remaining power feed for safety.

**IMPORTANT:** Check that the power feed is securely connected to the power block.

**NOTE:** The power feed may be connected to the building's power through the floor, wall, or ceiling.



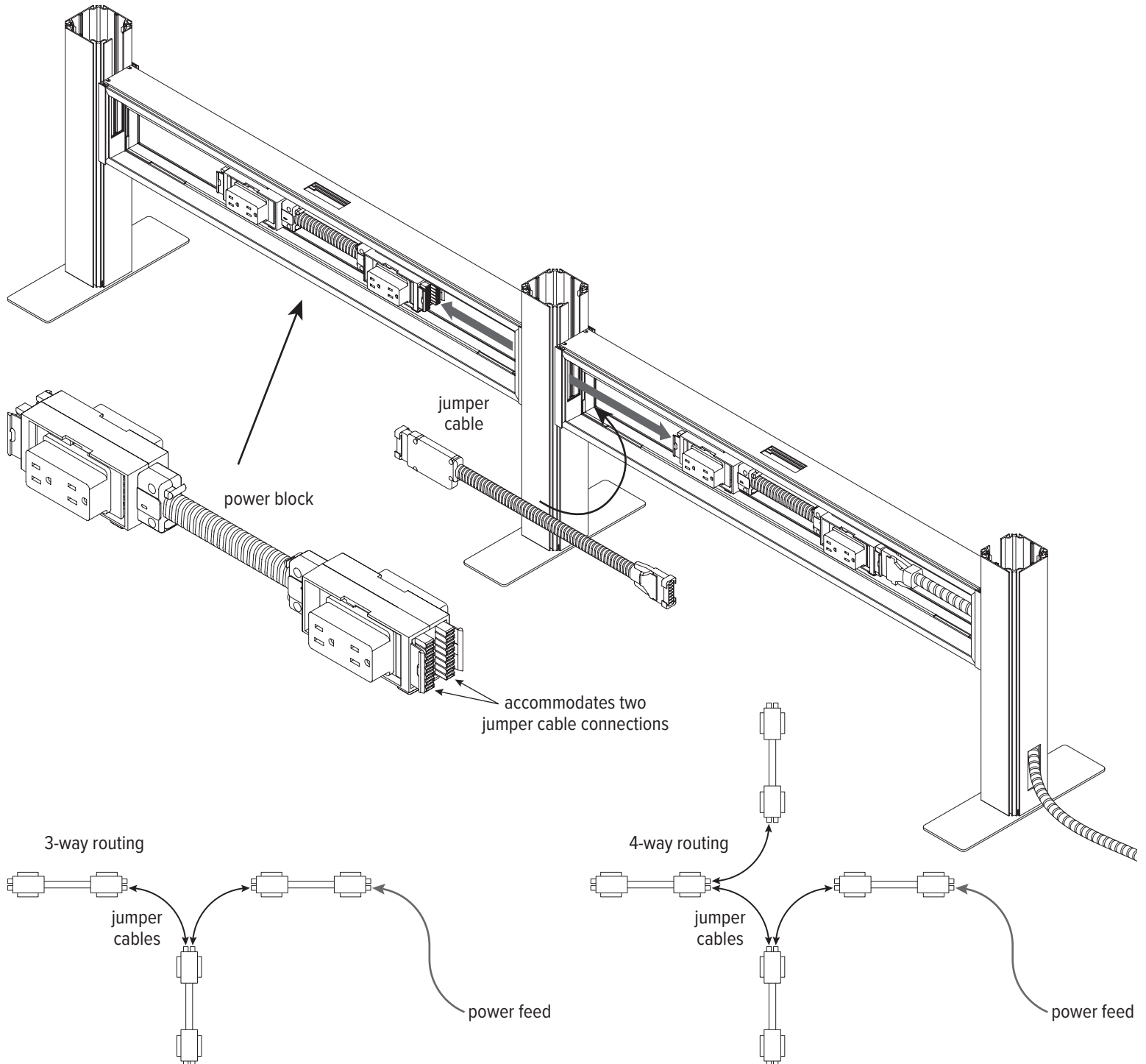


### Step 7: connect power blocks with jumper cable(s) if necessary

One or more jumper cables are used to connect power blocks in two or more rail assemblies. Skip this step if your unit has only one rail assembly.

- Run the jumper cable through the openings in the rail ends and post.
- Insert the connectors on the jumper cable onto the power block in each rail assembly.
- With 3-way configurations, two jumper cables are used. With 4-way configurations, three jumper cables are used.
  - Each end of the power block can accommodate two jumper cable connections.
  - Refer to the illustrations at the bottom of the page to see how the jumper cables are routed for 3-way and 4-way configurations.

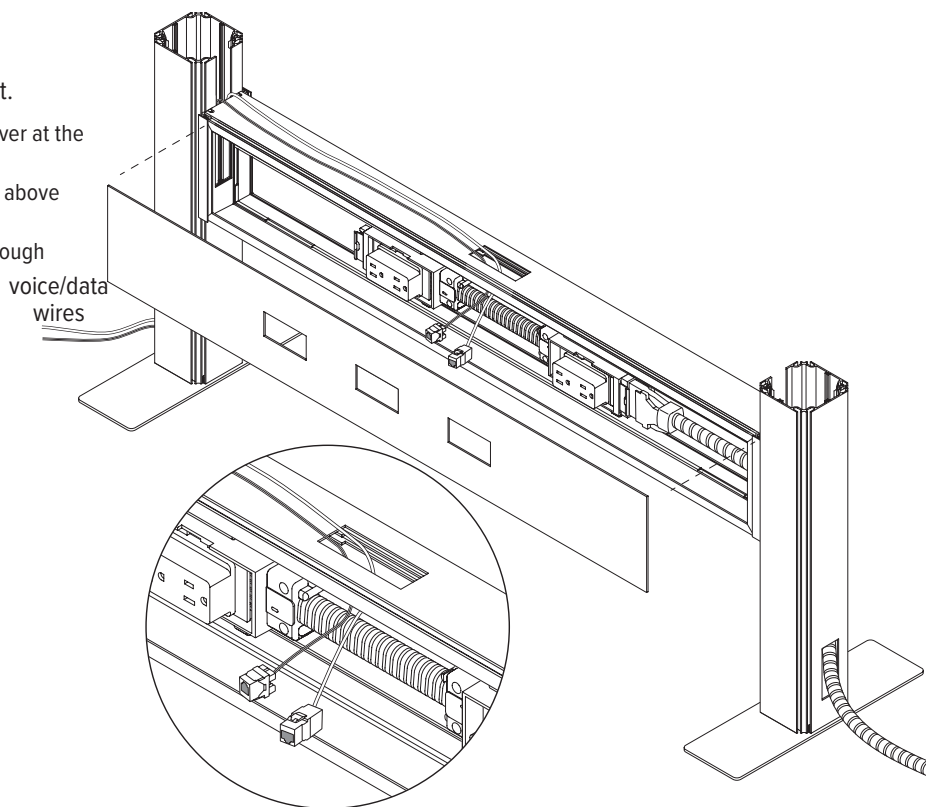
**IMPORTANT:** Check that each end of the jumper cable is securely connected to the power block.



## Step 8: route voice and/or data wires

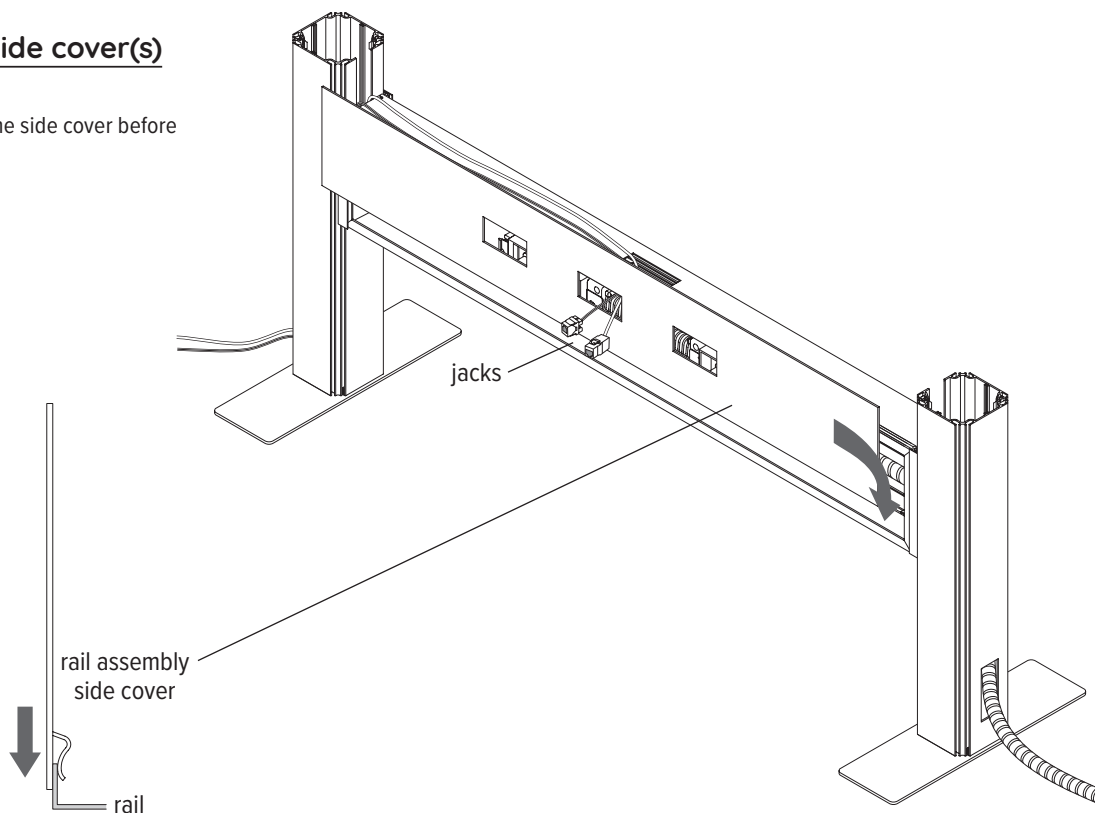
Skip this step if voice/data wires will not be used with the unit.

- If routing through the base of an end post, remove the plastic cover at the base of the post.
- Route the wires up through the post and out the slotted opening above the rail.
- Route the wires across the top of the rail assembly and down through the center opening.
- The wires may be routed in other appropriate ways depending on installation type and installer preference, as long as the voice/data jacks exit the center of the rail assembly, as shown.



## Step 9: reinstall rail assembly side cover(s)

- Reverse the procedure described in step 4.
- Pull the jacks out through the center hole in the side cover before securing the cover in place.

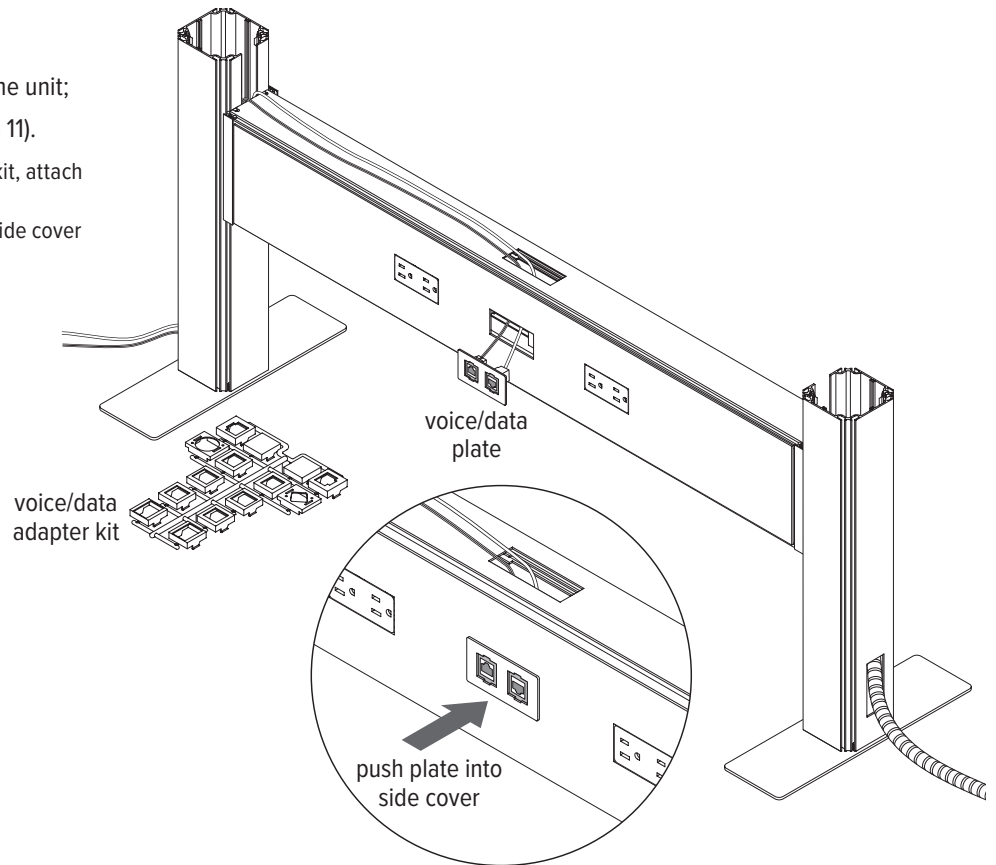




### **Step 10: install voice/data plate(s)**

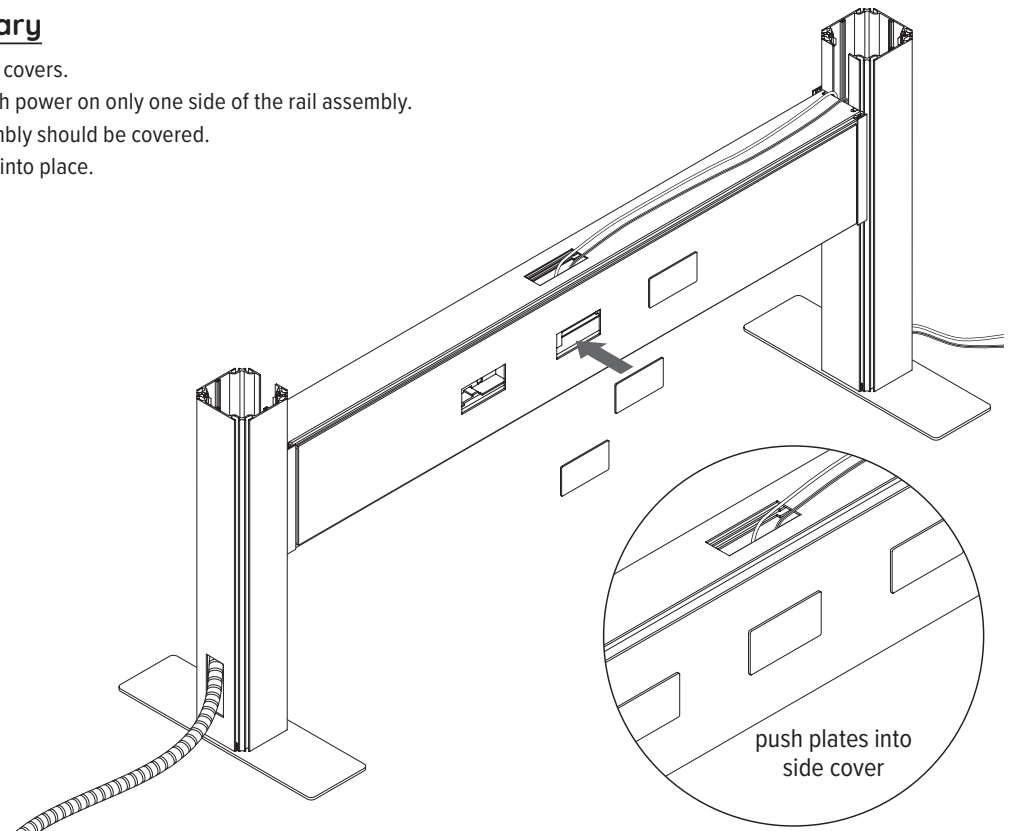
Skip this step if voice/data wires will not be used with the unit; instead, install a cover plate over the opening (see step 11).

- Using the appropriate adapters in the voice/data adapter kit, attach the jacks to the voice/data plate.
- Insert the voice/data plate into the center opening of the side cover and push it securely in place.



### **Step 11: install cover plate(s) if necessary**

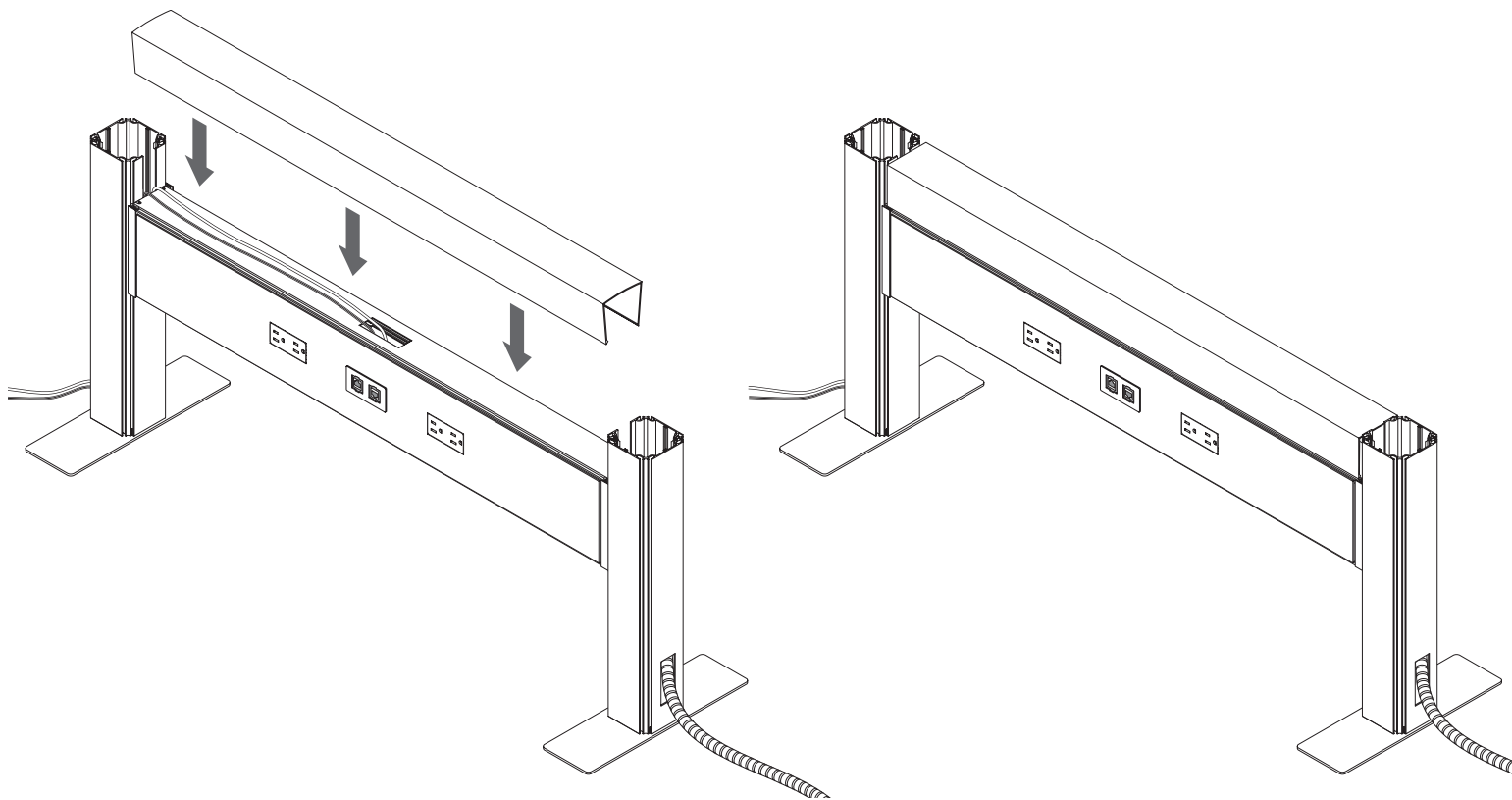
- Install cover plates into any unused openings in the side covers.
  - In the example shown, the Railway is “single run,” with power on only one side of the rail assembly.
  - The three openings on the other side of the rail assembly should be covered.
- Push the cover plates into the side cover until they snap into place.





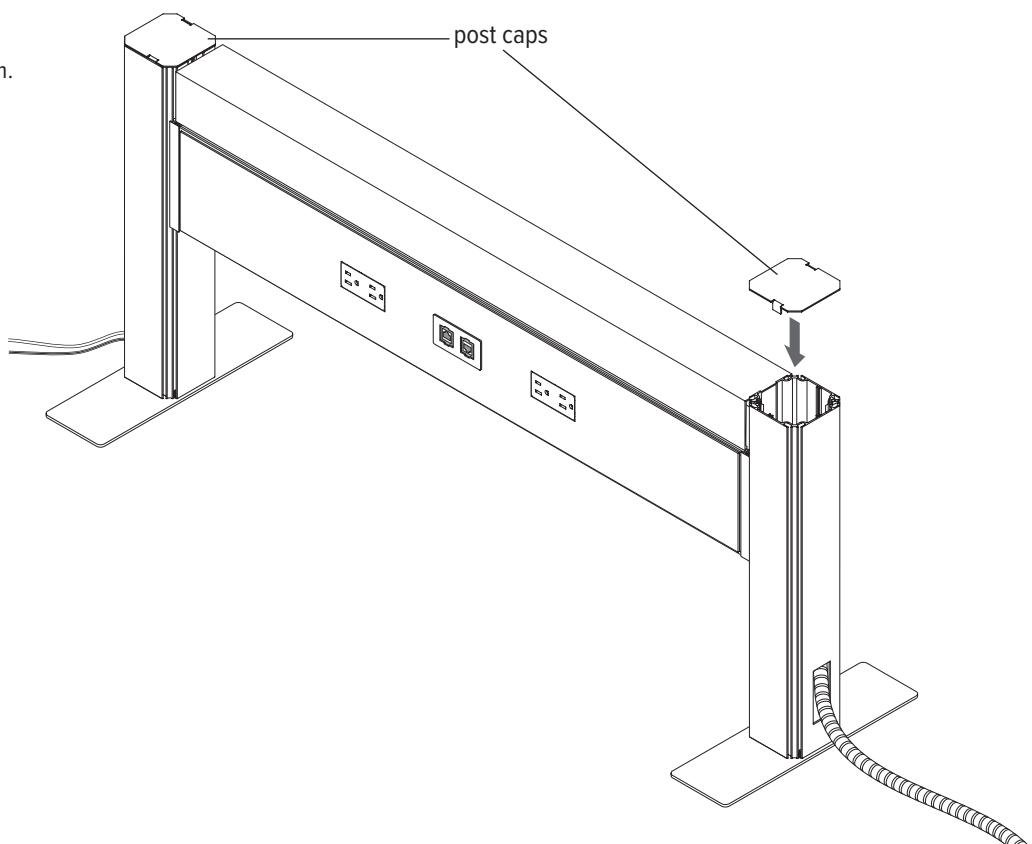
### Step 12: install top data cover

- Snap the top data cover onto the top of the rail assembly to conceal any wiring on the top of the rail and to provide a finished appearance.



### Step 13: install post caps

- Place post caps on the top of each end post as shown.





#### **Step 14: connect power feed to building power (licensed electrician required)**

- The connection to building power may be made through the floor, wall, or ceiling.
- A tag attached to the power feed shows the required wiring.
- Check that there is power to all receptacles. The licensed electrician should correct any problems.



evolution of motion™

# Railway™

data and power solution

Please contact Customer Service with any questions or comments at 800.833.3746 or visit our website at [esiergo.com](http://esiergo.com)

## LIMITED WARRANTY

ESI warrants this product to be free from defects in manufacturing for a period of 15 years on structural parts and 7 years on electrical parts from the date of original purchase. This warranty extends only to the original purchaser, and does not apply if the product has been damaged or fails to function properly as a result of misuse, abuse, modification, alteration, or improper cleaning or maintenance. This warranty does not apply to damage in shipment caused by carriers, damage caused during installation, normal wear and tear, or excessive use (meaning consistent use in excess of an eight hour shift). ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF ORIGINAL RETAIL PURCHASE. ESI's sole obligation under this warranty or any implied warranty, and the purchaser's sole remedy, is limited to the repair or replacement, at ESI's option, of the product or any defective part. Costs (such as installation, labor fees or express shipping) incurred due to replacement of products are not covered under warranty. IN NO EVENT SHALL FELLOWES, ITS AFFILIATES, SUBSIDIARIES, RELATED ENTITIES OR THEIR RESPECTIVE OFFICERS, DIRECTORS, OR EMPLOYEES, BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY, OR SPECIAL DAMAGES.

To make a warranty claim, contact ESI at 800-833-3746 or [customerservice@esiergo.com](mailto:customerservice@esiergo.com). You must provide proof of purchase, such as the original purchase order number.

The duration, terms and conditions of this warranty are valid worldwide, except where different limitations, restrictions or conditions may be required by local law.