BUSWAY SUPPORTS ARE SUPPLIED BY OTHERS WITH THE MAXIMUM SPACING BETWEEN HANGERS OF 10'–0". A VARIETY OF HANGERS ARE AVAILABLE TO SUIT MOST SITUATIONS (SEE CATALOG).

Tools needed to install Busway: 3/32" allen screwdriver, 9/16" open end wrench and a slotted head screwdriver. Two men are needed to install a 20ft. section of B40/B50/60C series Plug–in Busway.

(1) Begin installation at one end of the Busway, preferably the end at the customer supplied power source. (2) Insert the hanger bolts, as shown into the hanger channel of the busway at 10'–0" maximum intervals. Orient the striped side of the busway to align properly with the power feed unit in use. See diagram. Secure this section to the Busway supports.

(3) Locate the HC40/50/60C–2 housing coupler, used for joining adjacent busway sections. Loosen the two set screws in the coupler and slide it over the end of the busway section, positioning it away from the joint. Note that the housing coupler is polarized to match the offsetting flanges on the top of the busway housing and will only install in one direction.

(4) Install the next busway section in a manner, ensuring that the striped side of each section matches that of the adjacent section. Reposition housing coupler and tighten set screws.

(5) Locate the BC40/50/60C type bus connector which is used for the electrical connection between adjacent busway sections. Two pole systems use a BCxx–2; four pole systems use a BCxx–4. The bus connector is polarized and will only install in one direction. Orient the bus connector with the clips facing into the busway, and the arrows on the bottom of the connector pointing toward the striped side of the busway. The connector MUST BE CENTERED on the joint. Insert the bus connector into the busway such that the clips in the connector engage the corresponding conductors. Press firmly until the connector snaps into place, securely seated in the busway.

(6) Repeat the above steps until the busway run is complete.

(7) Install the EC40/50/60C end cap at the end of the busway run and tighten the set screw to secure it in place.

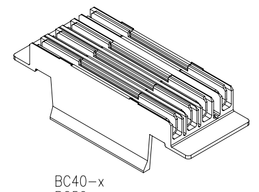
(8) The ells, tees and crossovers are designed to carry power around a corner or intersection. These fittings come prewired, providing electrical connector heads that connect directly to adjoining busway sections. Refer to the diagram showing the various orientations of these fittings.

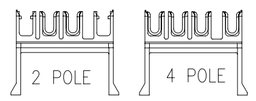
Warning: Plug–in Units cannot be installed into an ELL or TEE.

You must be a minimum of 6 inches away from the Housing Couplers on the Busway to install a Plug–in Unit.

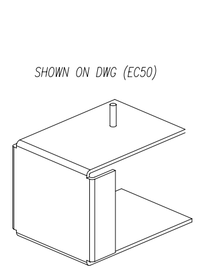
Check to be sure that all electrical connections are secure.

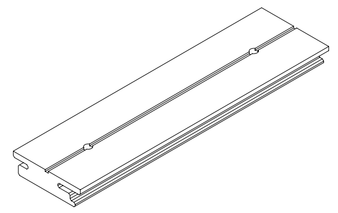
(9) Start installation of the ell, tee or crossover fitting by inserting housing couplers on each adjoining busway section. Position the fitting between the busway sections and then center the busway couplers over each joint. Tighten the set screws on each housing coupler. Install a bus connector at each joint in the typical manner.

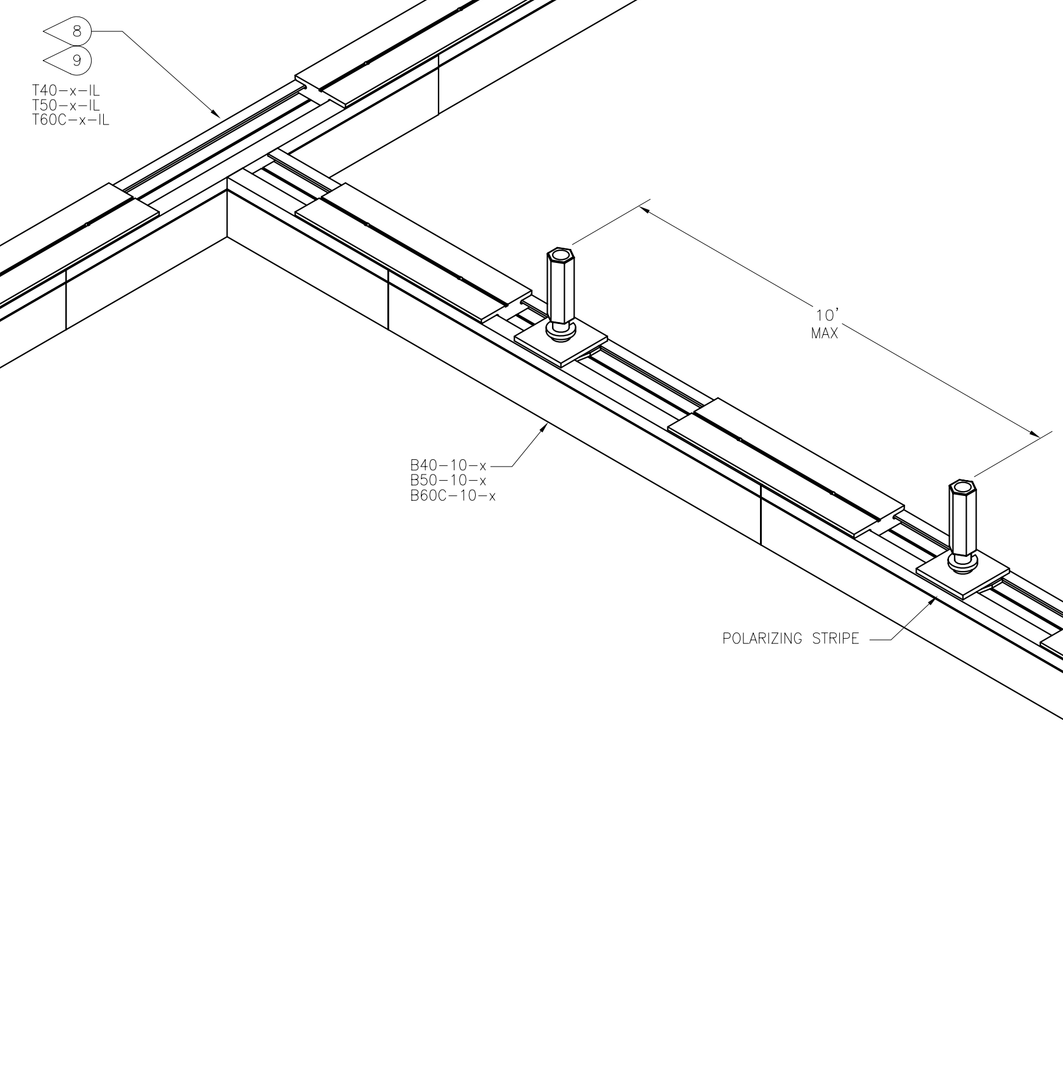


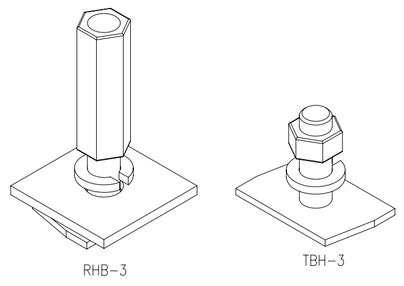


Catalog #	Wt.
B40/50–5–4	4.0 lb.
B40/50–10–4	8.0 lb.
B40/50–20–4	15.0 lb.
B60C–20–4	18.0 lb.
HCxx–2	.8 lb.
ECxx	.2 lb.
THB–3	.2 lb.
ELxx–4–IH	.5 lb.
Txx–4–EL	1.0 lb.
EFxx–4	3.3 lb.
PWxx–4	2.0 lb.









(10) The EF40/50/60C–x end feed units are used to feed power to the end of the busway run. For all versions, safety ground connection is made to the box with the lug provided.

Warning: Make sure the power is off before making your wire connections inside the End Feed Box.

These units must be aligned properly with the adjoining busway section. See diagram.

(11) To install, slide the THB–3 hanger bolt supplied with the unit into the busway section. Position the enclosure of the power feed against the end of the busway section. The connector head should be resting against the exposed conductors at the end of the adjoining busway section. Slide the hanger bolt into the mounting tab on the power feed and tighten it to 150 in–lbs. Seat the connector head of the power feed into the busway section in a manner similar to installation of the bus connector.

(12) For incoming wiring, knock out the appropriate size hole for the wire being used into the side or end of the end feed box. A terminal block is mounted inside the end feed box for field wiring. The terminal accepts a wire range of #4 thru #14AWG. Check to be sure that all electrical connections are secure before you close the lid on the end feed unit.

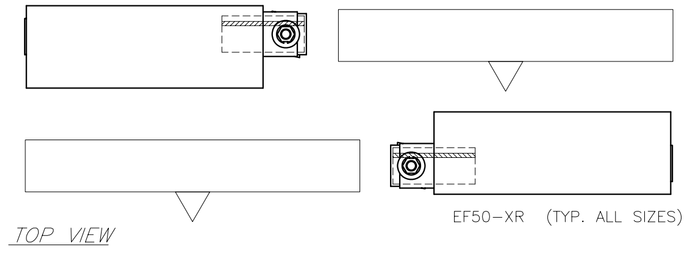
(13) The PW40/50/60C–X type power feed starter sections and CF40/50/60C–X center power feed sections are used to supply power to a run of track busway without the use of a junction box, and are typically used where aesthetics are important.

Warning: Make sure the power is off before making any wire connections.

Start by attaching your 1" conduit or fitting to the busway. On PW units, a threaded hub is provided, and slips into the underside of the busway, and your conduit through the hole in the top side of the busway. See illustration. CF units come with a factory–installed, 1" set screw conduit connector. Field wiring connections may be made inside the PW busway section. Field wires are pulled through the conduit to meet with the color–coded PW/CF wire leads. Connections are made using the lugs and shrink tubing provided. A separate ground lead is provided, and may be used as necessary. Once the wiring connections are complete, snap the plastic closure strip over the open slot of the busway section.

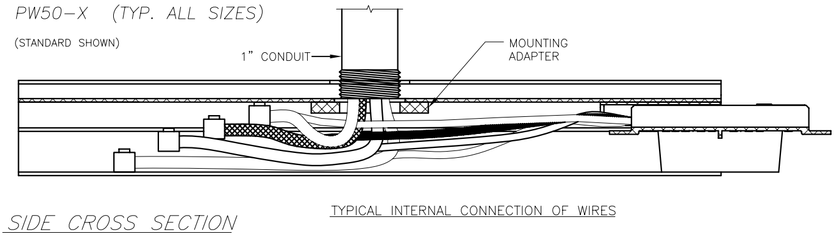
The aluminum housing is Listed by UL for use as a ground conductor. The plug–in units that are bolted to the Busway can be grounded through the housing. Extension of this ground to the customer's equipment should be done in a manner to comply with the National Electric Code.

EF50–X (TYP. ALL SIZES)



TOP VIEW

PW50–X (TYP. ALL SIZES)



SIDE CROSS SECTION

TYPICAL INTERNAL CONNECTION OF WIRES

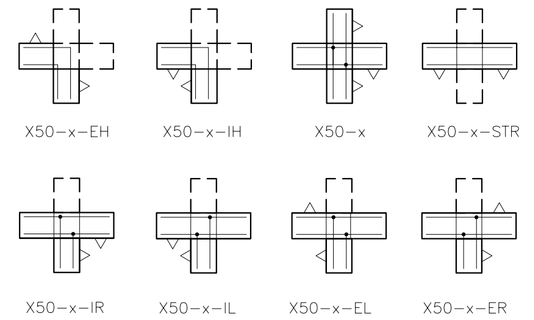
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	C	ADDED PW	08/02/02	

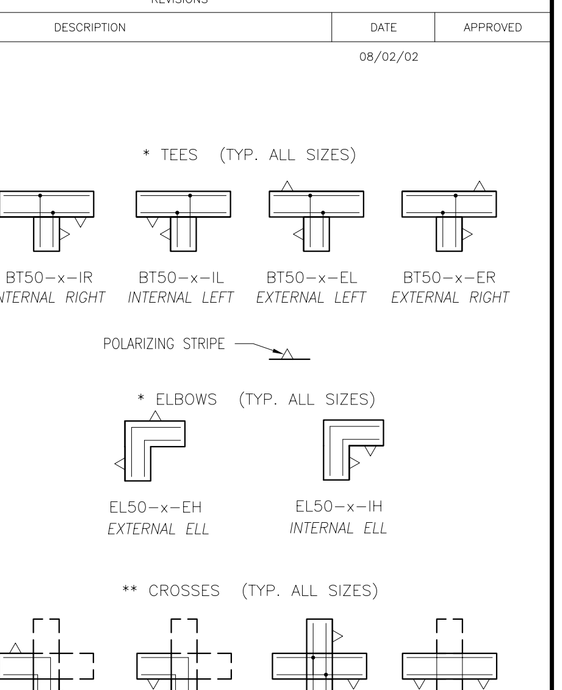
* TEES (TYP. ALL SIZES)

POLARIZING STRIPE

* ELBOWS (TYP. ALL SIZES)

** CROSSES (TYP. ALL SIZES)





NOTES:

BUSWAY WEIGHT RESTRICTIONS:
75 LBS. @ 10'–0"

B50–20–4
- B50: AMP RATING OF BUSWAY 40, 50 OR 60C
- 20: LENGTH IN FEET
- 4: 2 OR 4 POLE

STARLINE TRACK BUSWAY
A DIVISION OF UNIVERSAL ELECTRIC CORPORATION

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B40, B50, B60C SERIES INSTALLATION INSTRUCTIONS

SIZE	DRAWN BY	DATE	DWG NO.	REV
D	EJS	06/12/01	209–0001–0	C
	APR BY	APR BY		
SCALE NTS		SHEET 1 OF 1		