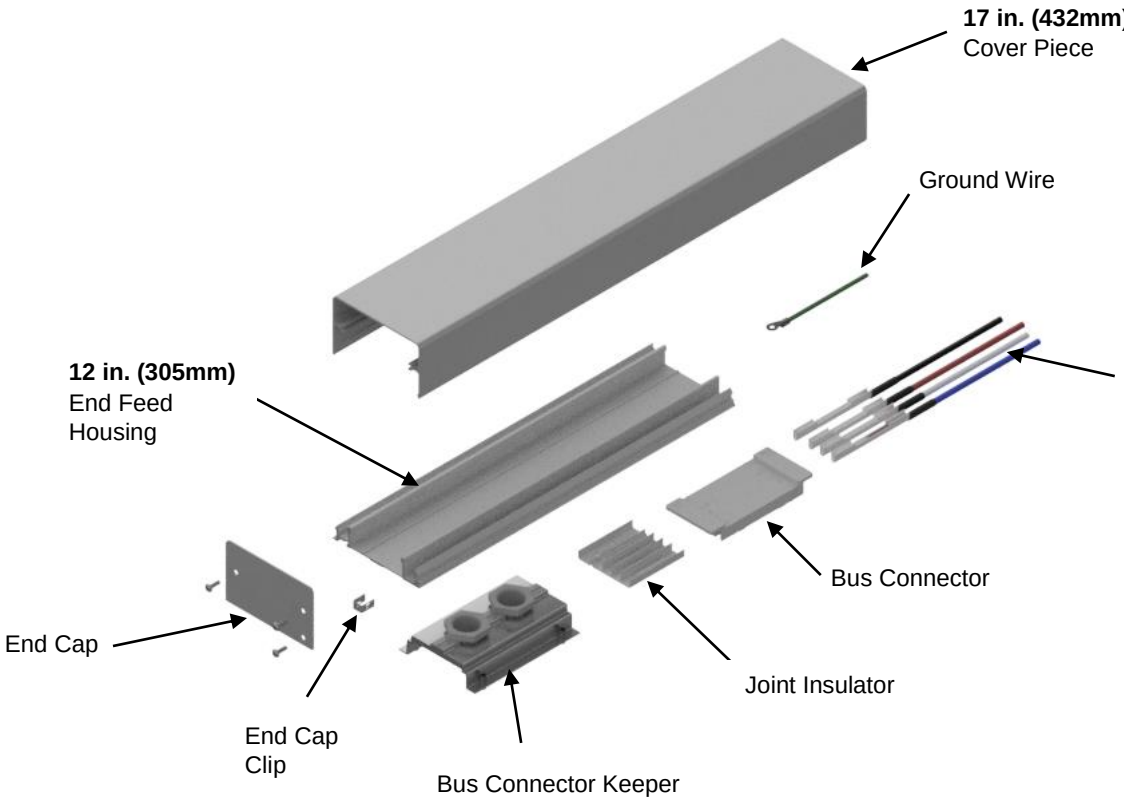
STARLINE PLUG-IN RACEWAY END FEED INSTALLATION

The Universal End Feed (product numbers beginning with URPF, URDF, or MRPF, MRDF) provides the installer a provision to connect supply power to the Plug-In Raceway system without the use of a junction box.

WARNING: MAKE SURE POWER IS OFF BEFORE MAKING ANY WIRE CONNECTIONS

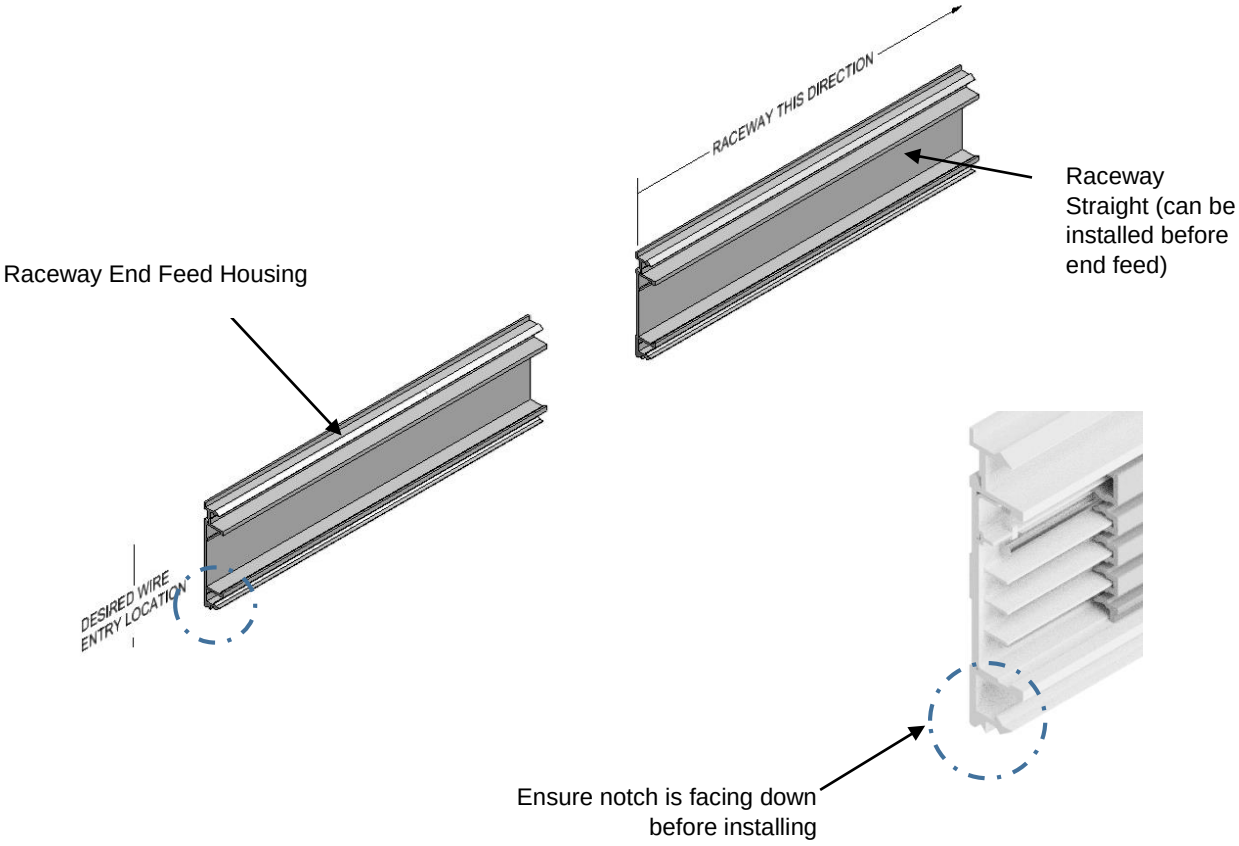


Phase colors are as follows:
Phase A: Black
Phase B: Red
Phase C: Blue

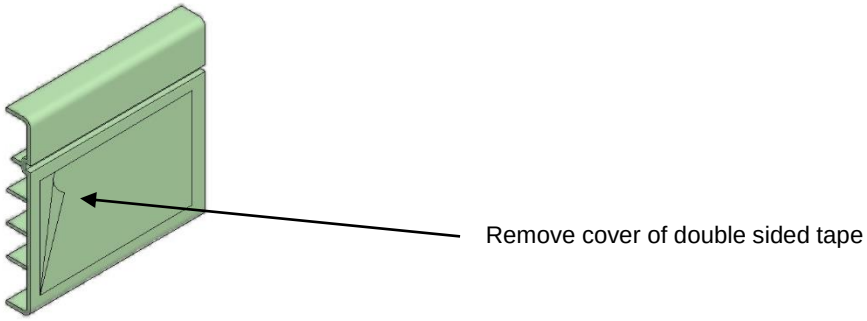
(can be installed on either end of housing)

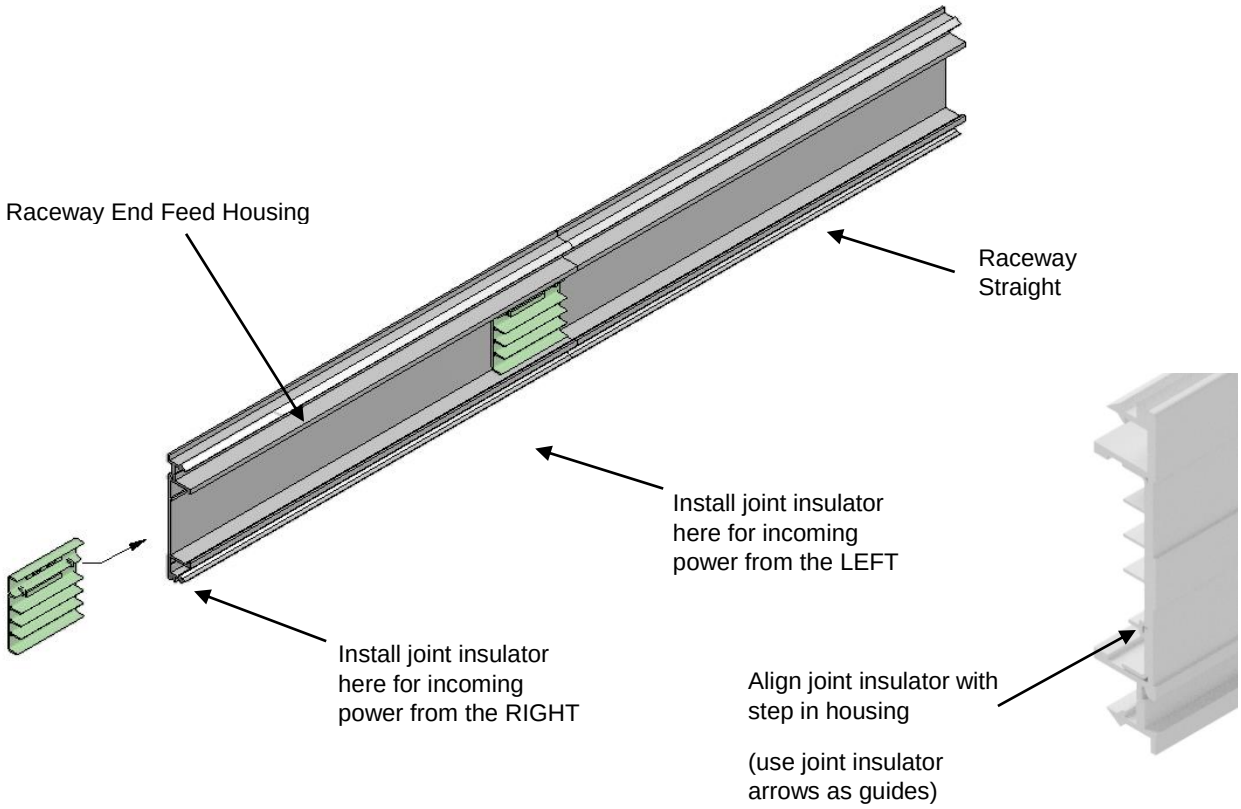
*Contractor to connect incoming power to End Feed Wires using provided terminal lugs and shrink tubing (not shown)

1. Locate the End Feed housing where you want to install the end feed to attach incoming power.



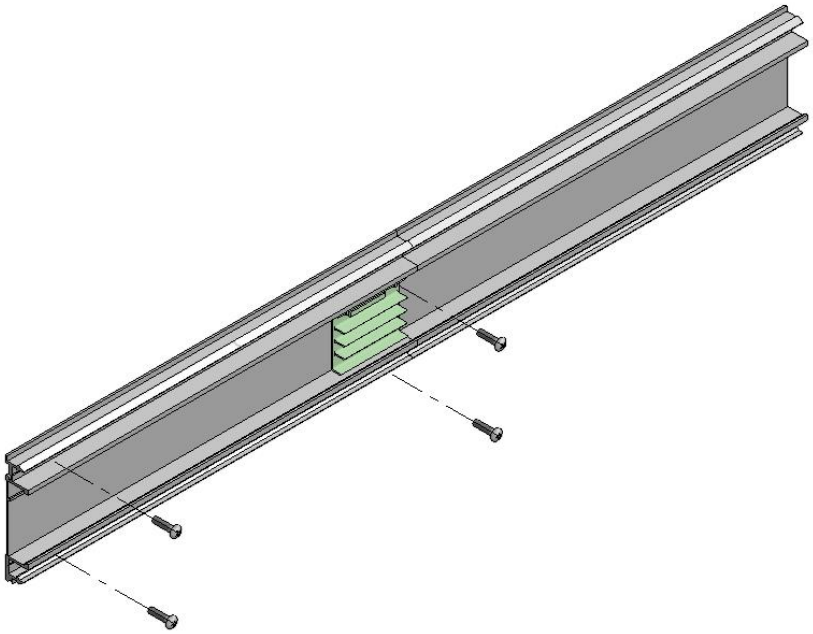
2. Secure the joint insulator to the End Feed housing by removing the cover of the double-sided tape attached to the back of the joint insulator. Install the joint insulator so that the edge is flush with the end of the end feed section.



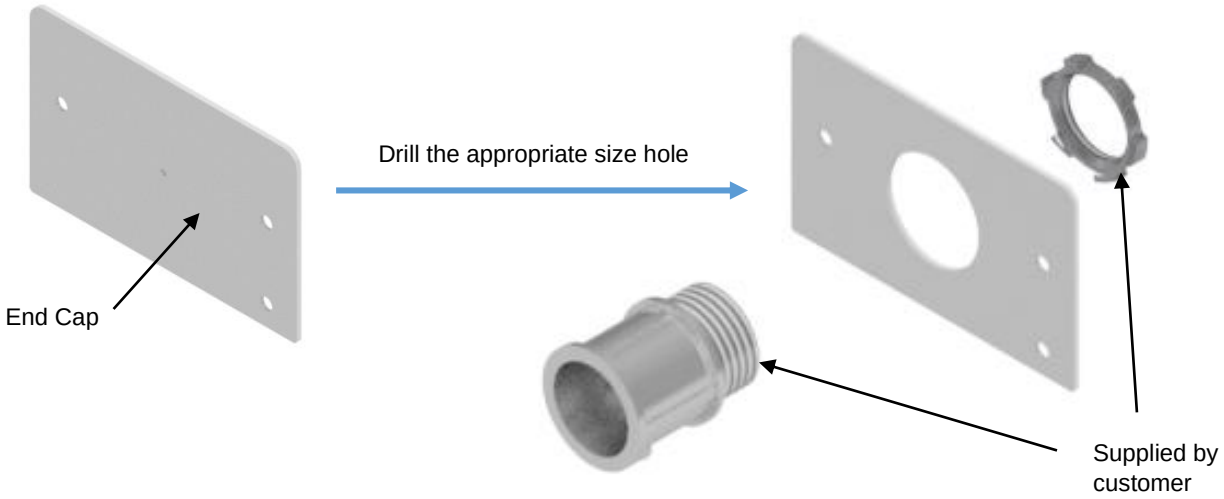


3. Secure the end feed housing to the surface using wall mounting clips (Cat No. SRPWMC-PIR or SRDWMC-PIR) OR drilling through the end feed housing at the scoring lines for guidance. Use the following screws for:

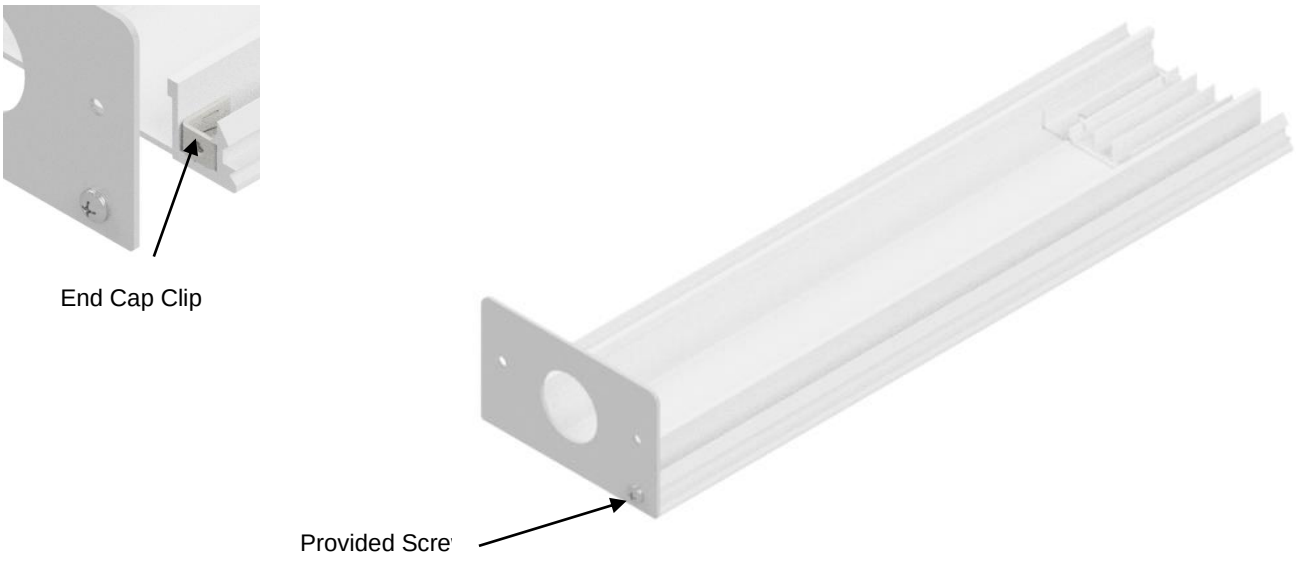
    a. Drywall: use self-drilling drywall anchors with #8x1-1/2” [4mm Dia x 40mm Length] flat head wood screw)
    b. Concrete: use (3/16x1-3/4” [4.8mm Dia x 45mm Length] tapcon flat head screw).



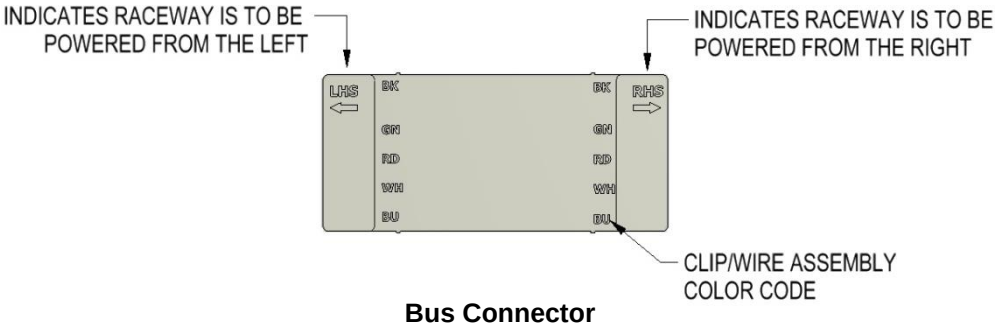
4. To install conduit so to connect power to the raceway end feed, drill the required size hole through the end cap, then install the conduit fitting in the end cap. (Parts provided by customer)



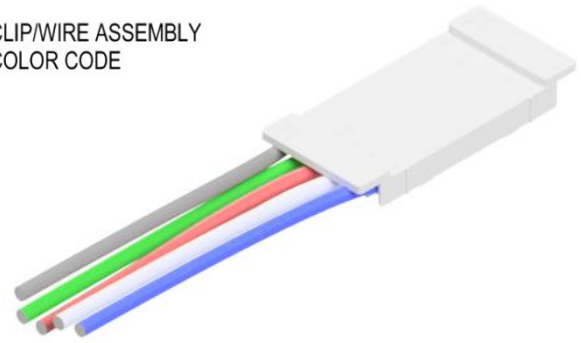
5. Install the End Cap clip into the channel along the raceway backplane (the deeper channel). Secure the end cap to the end feed housing by mounting the provided screw into the installed End Cap Clip.



6. Now that the direction of the end feed unit has been established, the color-coded wires may now be inserted into the bus connector.

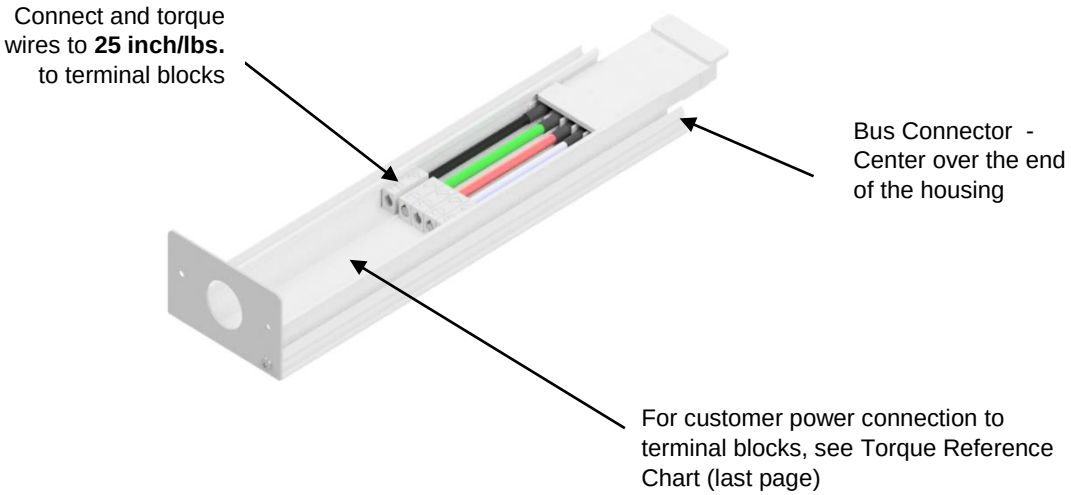


Bus Connector



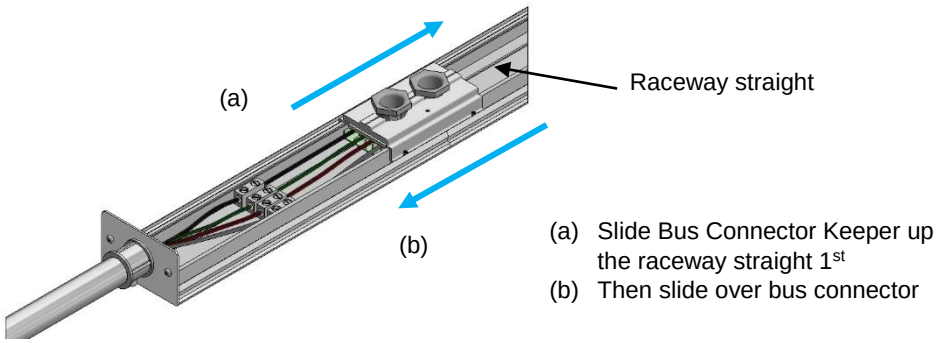
Finished End Feed Connector Body

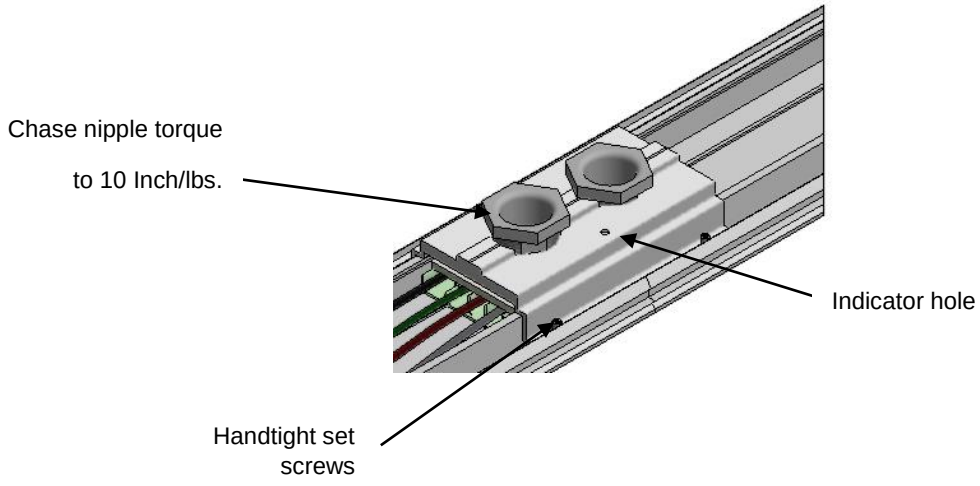
7. Insert the bus connector over the joint insulator and center it on the seam, or joint. Secure the loose end feed wires to one side of the terminal blocks.



8. To make the electrical connection from the end feed kit to the 1st raceway straight, follow these steps:

   a) Slide the bus connector keeper up the 1st raceway straight to be used adjacent to the end feed kit.
   b) Now slide the bus connector keeper over the bus connector such that the indicator hole is lined up at the section joint.
   c) Once the bus connector keeper is in position, turn the chase nipples to lock the connector body in place. After the chase nipples are tightened, use an allen wrench to tighten the four set screws against the backplane.

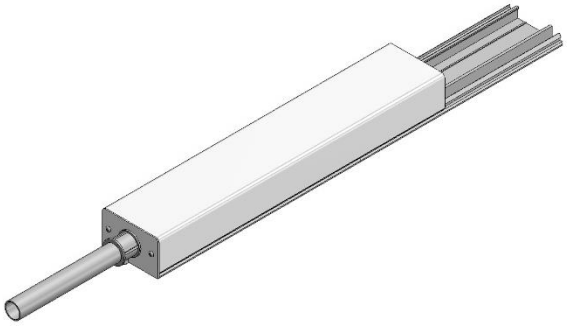




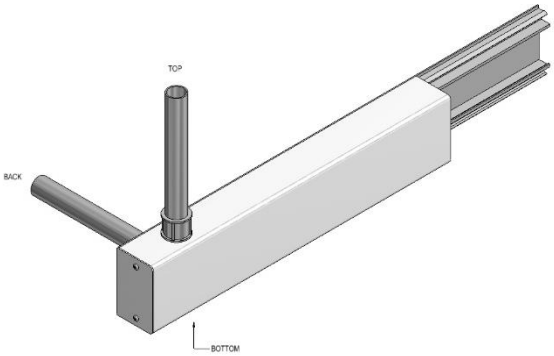
9. Field wiring connection can be made inside the end feed section. Field wires are pulled though the conduit to meet with the color coded end feed wire leads. Connections are made using the terminal blocks and shrink tubing provided.

10. A separate ground lead is provided with the end feed kit, and may be used as necessary. (Drill a 0.160 diameter hole in the back plane, use the #8-32x.375 self-tapping screw and ring lug for ground).

11. Once the wiring connections are complete, snap the cover back onto the end feed housing.



Note: Alternative conduit entrances can be made through the top, bottom or back of the end feed section. Drilling modifications (not shown here) can be made in the field.



Tightening Torque Values For ILSCO Connectors

AWG Size	TORQUE (in-lbs)
14, 16, 18	20
12	20
10	20
8	25
6	35
4	35
2	40