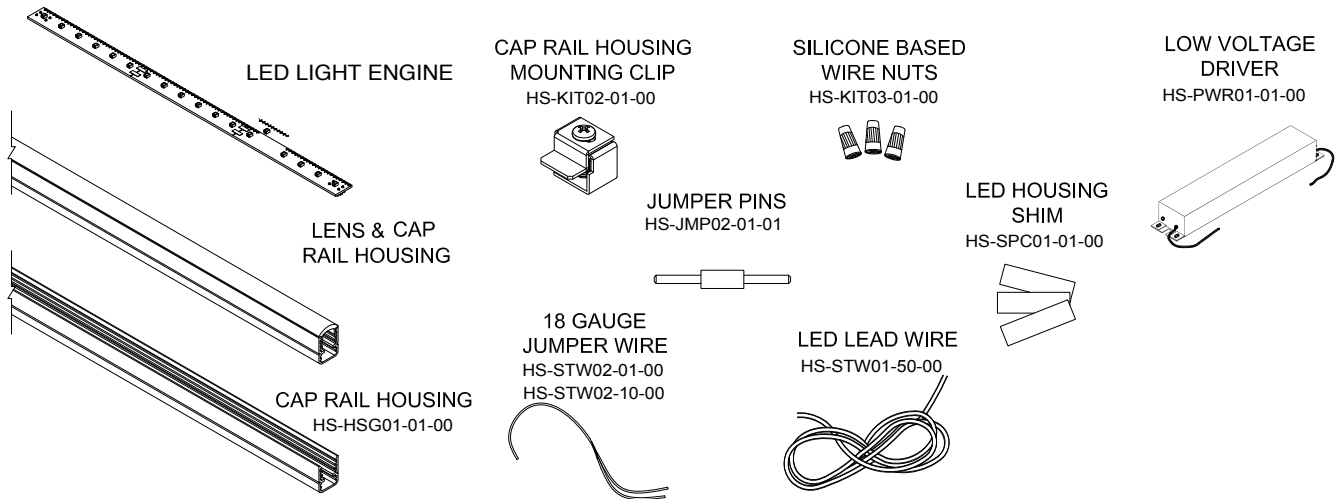
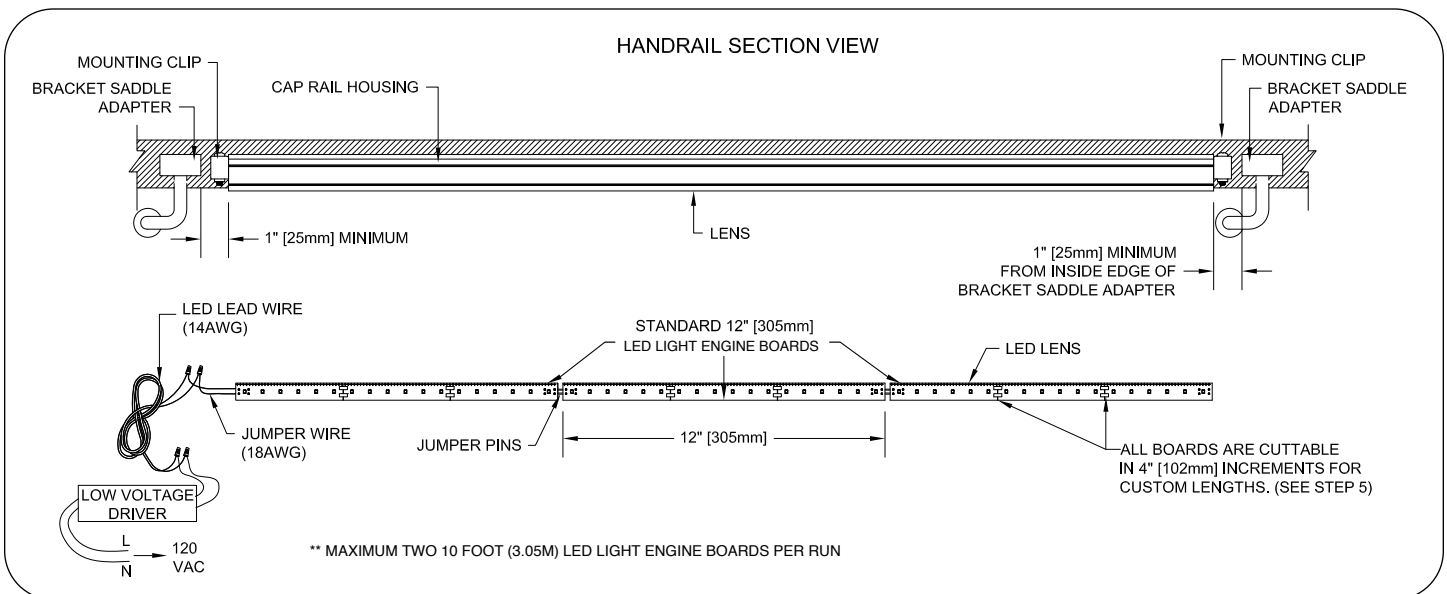


## iLight Technologies Handrail Lighting System

### HANDRAIL LIGHTING SYSTEM COMPONENTS



### HANDRAIL LIGHTING SYSTEM OVERVIEW

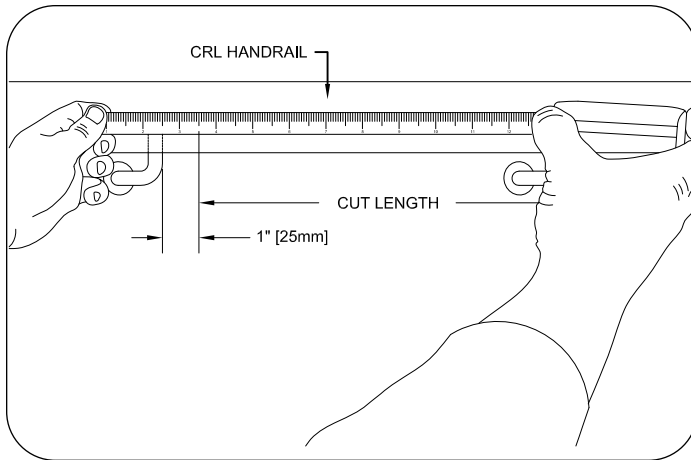


### WARNING / CAUTION

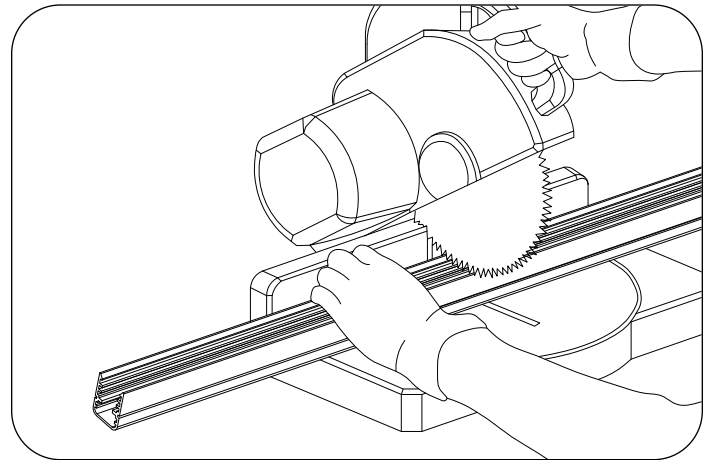
- Read these instructions carefully prior to installation.
- All wiring of the low voltage driver shall be done in accordance with the National Electric Code (NEC) and local codes.
- **Risk of electrical shock.** Disconnect power before servicing or installing product.
- **Risk of injury.** Gloves, safety glasses and/or other safety devices should be worn during the installation of this product.
- Failure to comply with installation instructions may void the product warranty.
- **Do not touch** LED lens. Only handle lights by holding LED light board edge.
- **Do not exceed maximum lengths** for LED light board, LED drivers, lead or jumper wires as it may void warranty.
- This product is a plastic product. The lens and housing may be cleaned with mild soaps (such as dishwashing liquids) mixed with water. **Do not use** products that contain solvents (other than water), acids, alkalis, and/or strong oxidizing agents. **Do not use** high pressure or water jets on this product as it may void warranty.

**iLight Technologies Handrail Lighting System**

**MEASURING AND CUTTING TO LENGTH**

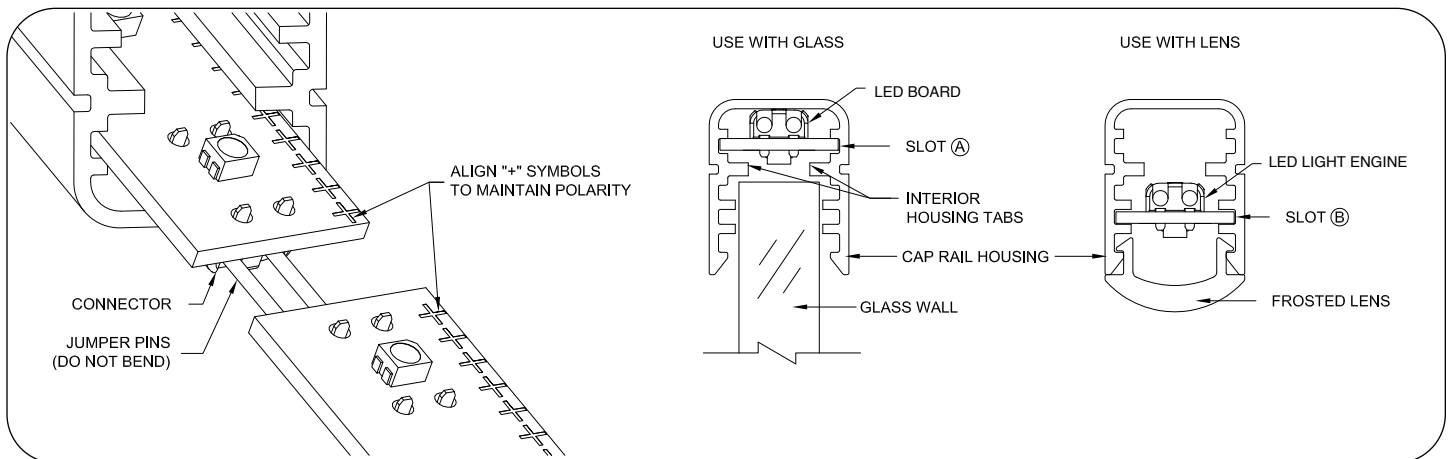


**1** Measure the distance between handrail supports. Subtract 2" (51mm) total from the measurement to allow for clip space.

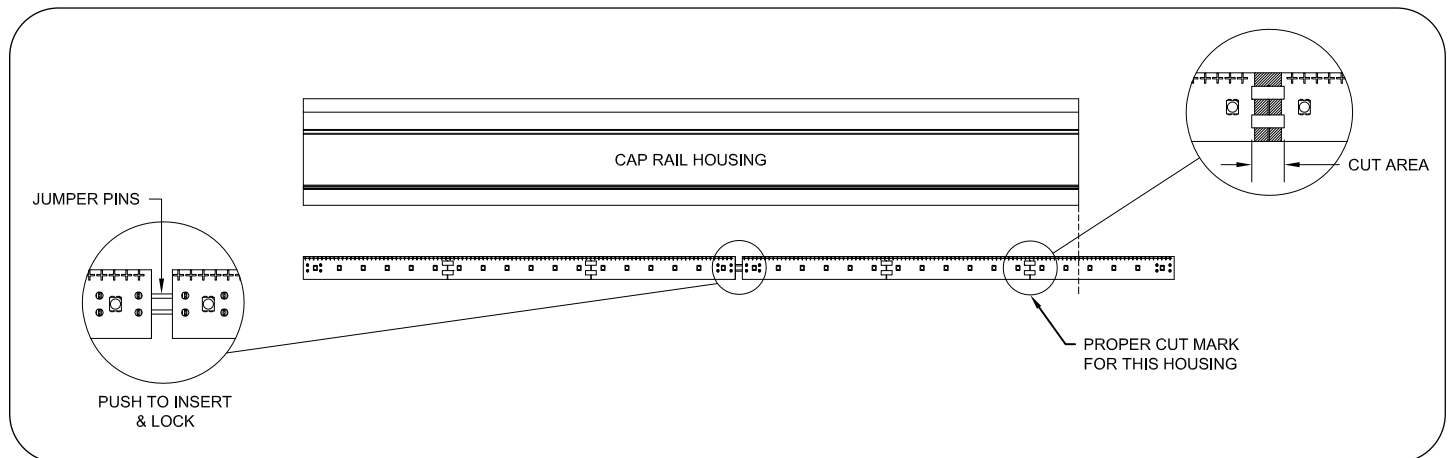


**2** Take reduced measurements and cut cap rail housing to length with chop saw. If using lens, cut lens to same length as cap rail housing. Do not cut both at same time.

**INSERTING JUMPER PINS & CONNECTING HANDRAIL LIGHT ENGINES**



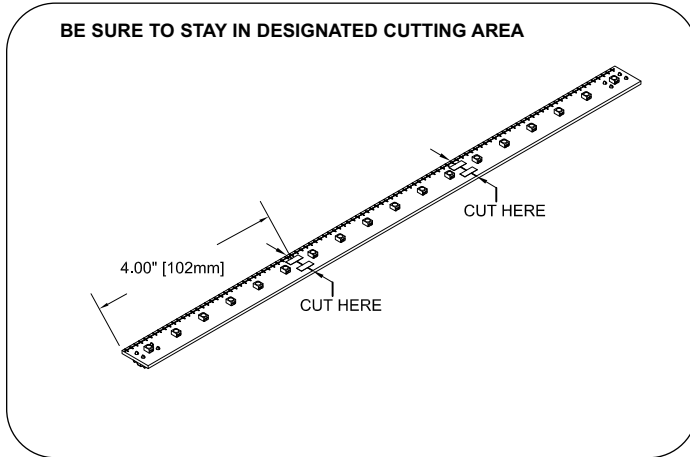
**3** Slide LED light engine boards into cap rail housing slot. If using with glass, place LED light engine board into slot (A). Slot options (A) or (B) are available if using with lens. Once inserted, take two jumper pins and insert into female connectors on end of LED light engine board light. To connect LED boards, align the “+++” of the first board to the “+++” on the second LED board. Press the two tabs on the connector to remove jumper pins and lead wires.



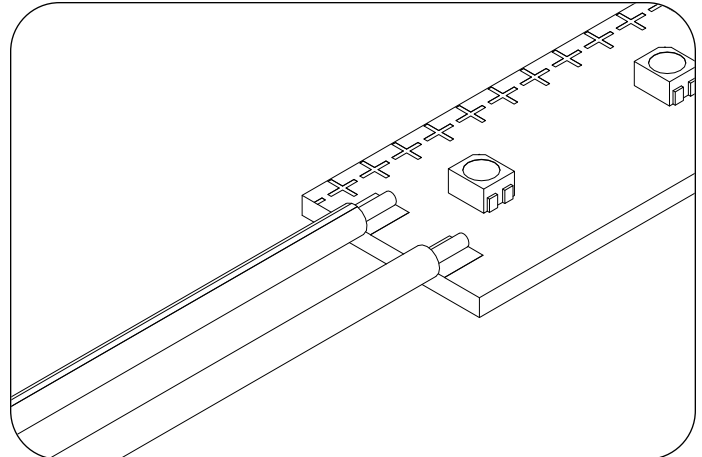
**4** Slide LED light board into the extended jumper pins until boards link securely together. Custom cut option is described in **Step 5**.

## iLight Technologies Handrail Lighting System

### CUTTING & JUMPING LED LIGHT BOARD

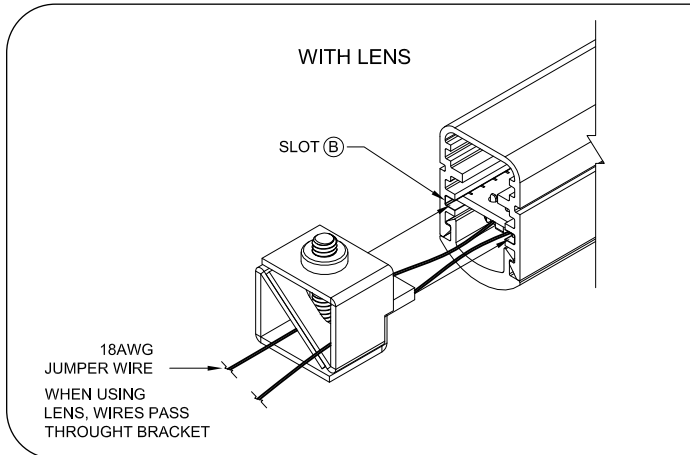


**5** The LED light engine board is designed to be cut in 4" (102mm) lengths as indicated by the double lines on the LED board. Use a hack saw or other fine toothed saw to cut the LED board. If cut LED board is used at the end of run, no soldering is required. Note: the remainder LED light engine board is usable elsewhere if needed.

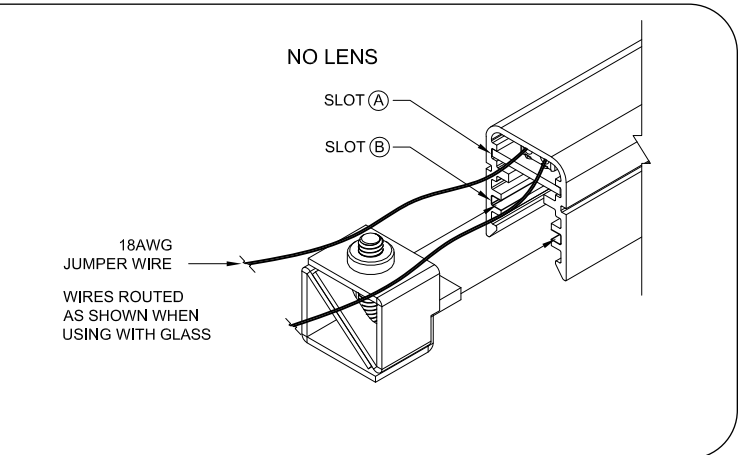


**6** If the cut piece is in middle of run, prepare LED light engine board by using a soldering iron tip with solder to burn off transparent waterproof coating at LED light board cut lines. Then solder 18 AWG jumper wires to cut LED board to connect to adjacent LED board. Note: The black & white striped wire is positive (+) and black wire is negative (-).

### INSERTING CAP RAIL HOUSING MOUNTING CLIPS INTO CAP RAIL HOUSING

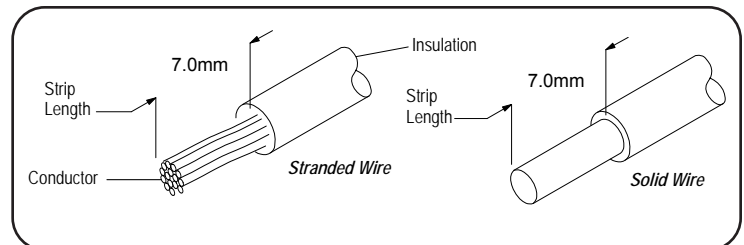
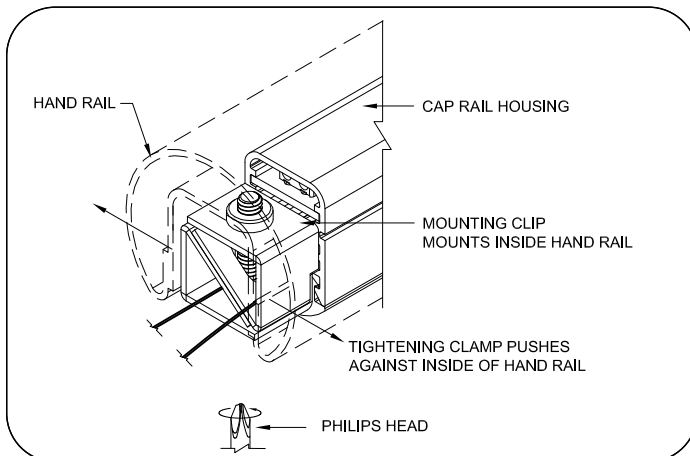


**7** If using lens, feed 18 AWG jumper wire through LED mounting clip as shown (above left), and slide clip in cap rail into Slot (B).



**8** If lens is not used, feed 18 AWG jumper wire as shown (above right), and slide clip in cap rail housing into Slot (B).

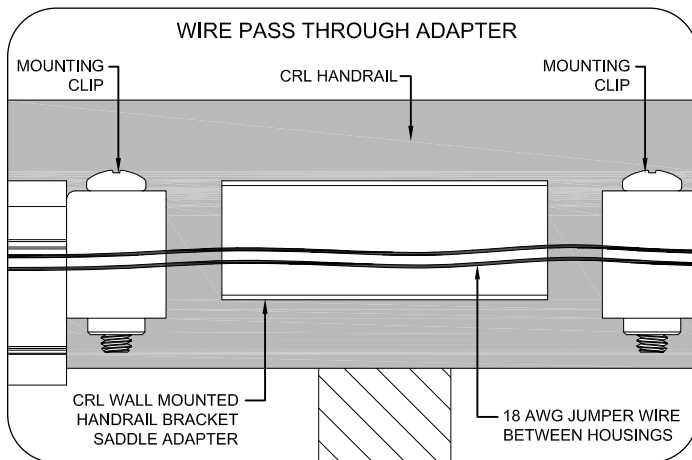
When preparing stranded wire, it is recommended NOT to twist strands after stripping the insulation. The stranded wire will insert best if the strands are straight (or slightly twisted) as the wire is manufactured.



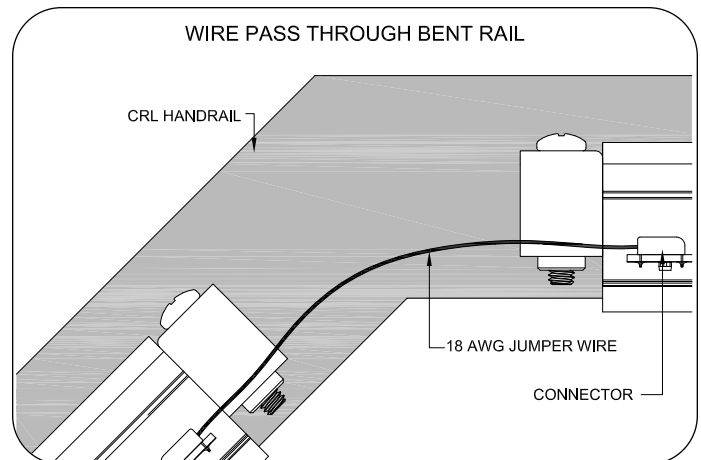
**9** After jumper wires and mounting clips are inserted into hand rail, screw into hand rail housing. Clip will expand until tight with housing. Make sure clips are securely fastened.

## iLight Technologies Handrail Lighting System with C.R. Laurence Post Mount Lighted Handrail System

### WIRE MANAGEMENT FOR RAIL

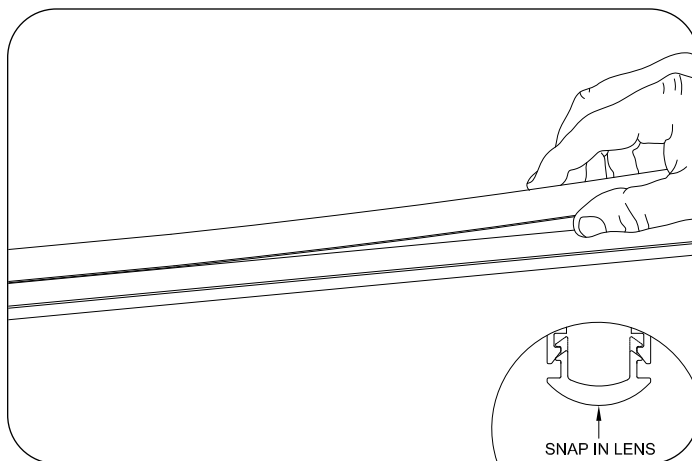


**10** The CRL Saddle Adapter is designed to allow LED wiring to pass through inside of handrail and should be used where needed.

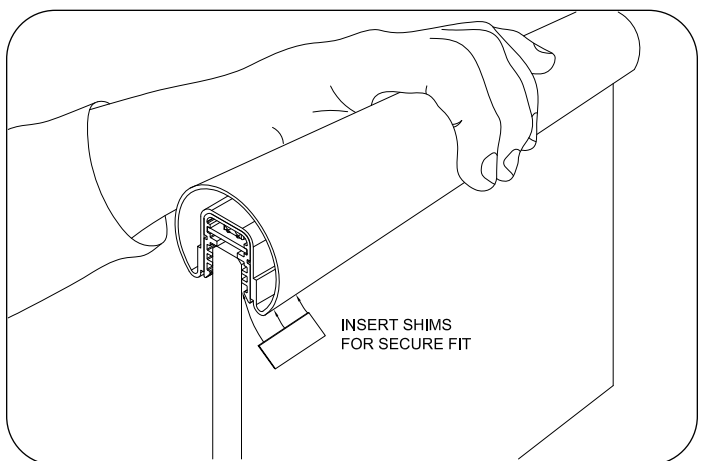


**11** Use 18 AWG jumper wire to accommodate angled rails. The connectors are designed for use with stranded and solid core 18 AWG. Inserting stranded 18 AWG wire into connectors is easier if wire is lightly tinned.

### INSERTING FROSTED LENS OR GLASS



**12** Gently snap on lens at end of cap rail housing. Continue to press lens down length of housing channel, snapping it securely in place.



**13** If using handrail with glass, insert handrail with completed cap rail housing and LED light engine onto glass once all the above steps are completed. Glass enters base of cap rail housing and stops at interior housing tabs. Note: If loose after glass insertion, cut LED housing shims to size and insert between glass and housing.

### INSTALLING LOW VOLTAGE DRIVER

For specific instructions on the low voltage driver setup and example driver and run configurations, please refer to the "INSTALLATION GUIDE FOR LOW VOLTAGE DRIVER FOR ILIGHT TECHNOLOGIES HANDRAIL LIGHTING SYSTEM" that is included with every driver.

**For questions regarding this product or to order additional components, please contact iLight Technologies at [www.ilight-tech.com](http://www.ilight-tech.com) or at 312-876-8630.**

### PRODUCT MAX CONFIGURATION

- **20 feet (6.10m)** Max. LED product length per LED driver  
Two 10 foot (3.05m) runs
- **40 feet (12.19m)** Max. total length 14 AWG lead wire in any given run
- **20 feet (6.10m)** Max. total length 18 AWG jumper wire in any given run