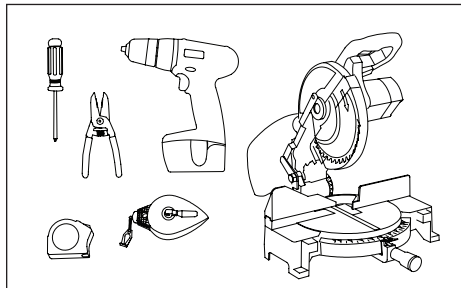
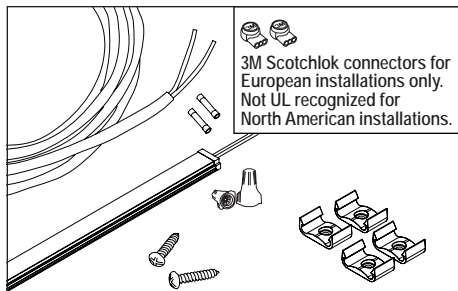


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CAUTION: Do not mount where fixture can be completely or partially submerged in water.

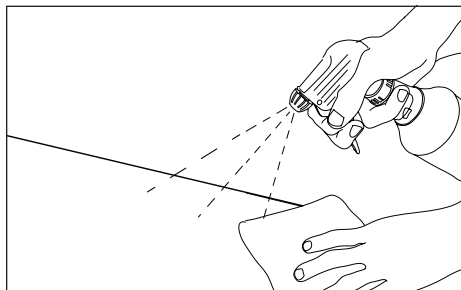


Tools: Required: Wire strippers, measuring tape, miter saw (for custom length field cuts), multimeter. **Optional:** Cordless drill, drill bits, #2 Phillips driver bits, chalk line.



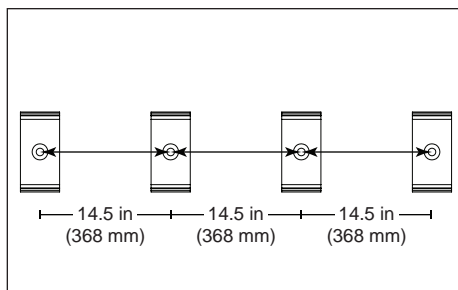
Supplies: Required: Butt splices or IDC connectors, wire nuts, IPS Weld-On® #16 Solvent Cement, and UL listed wet location, sunlight resistant PLTC cable. **Optional:** Mounting clips (P/N 401203), #6 Pan Head Phillips screws, appropriate thread anchor for the mounting surface.

NOTE: 3M™ Scotchlok™ connectors for European installations only.



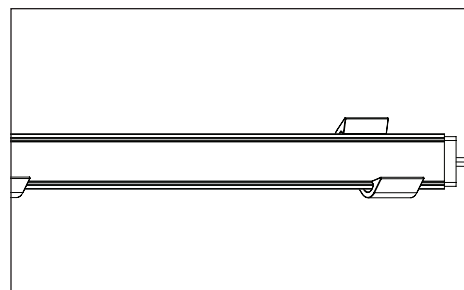
1. Peel and stick:

NOTE: If installing with mounting clips skip to Step 2.
Clean installation surface with rubbing alcohol and allow to dry. Remove tape backing and stick SlimLINER into place. Ensure it is firmly attached. Leave ¼ in (6 mm) gap between sections.



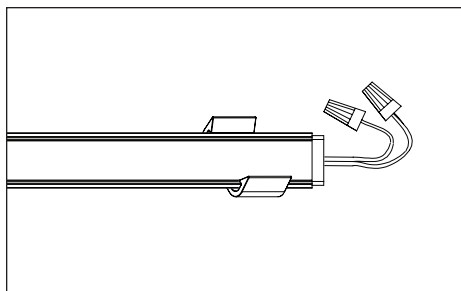
2. Install mounting clips:

NOTE: Skip Steps 2 and 3 if not installing with mounting clips.
Snap chalk line on surface for mounting. Install four (4) mounting clips per SlimLINER section. Place a mounting clip 1 ½ in (38 mm) from each end of SlimLINER section. Evenly space remaining two (2) mounting clips in approximate 14.5 in (368 mm) increments.

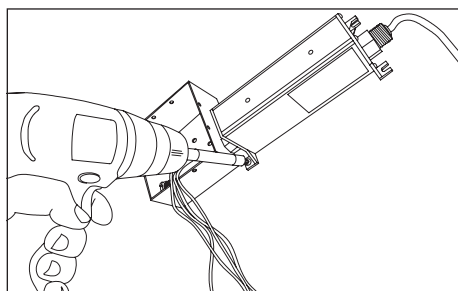


3. Install SlimLINER sections onto mounting clips:

Slide or snap SlimLINER sections onto mounting clips. Leave ¼ in (6 mm) gap between sections.



4. Connections: Sections may be connected in series or parallel. The string of SlimLINER luminaires should not be connected to create a closed circuit. Cap all unused, exposed wire ends.



5. Connect power supply: See Power Supply installation guide for more information regarding power supply installation.

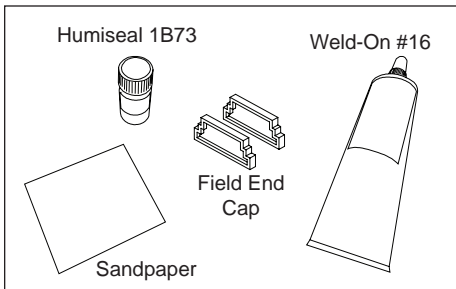
WARNING: Check Polarity: All connections must be RED-to-RED (+) and BLACK-to-BLACK (-). Reverse polarity connections may damage LEDs and will void product warranty.

CAUTION: To maintain the integrity of end caps and prevent water penetration around wires, do not pull or tightly bend wires or allow tension between wire connections.

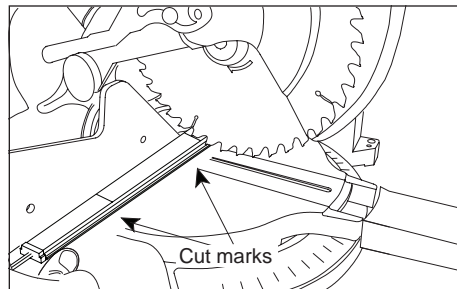
Installation Guide for 701956-XWL461

Field Cuts

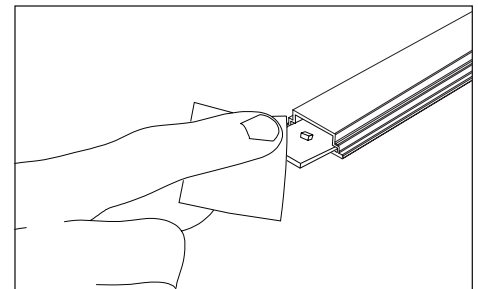
SAFETY WARNING: Failure to strictly follow these instructions may subject the installer or others to personal injury. Failure to strictly follow these instructions will also void the manufacturer's warranties and may cause risk of fire, product damage, damage to property and injury to persons. Please read all warnings contained below and follow all instructions carefully.



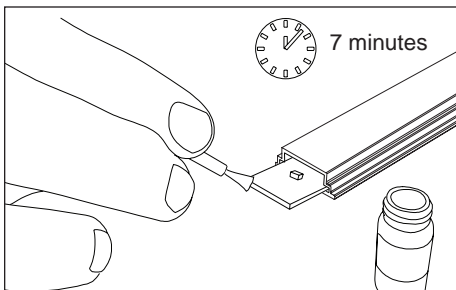
- 1. Gather materials:** Sandpaper, Weld-On #16, Humiseal 1B73 conformal coat (for sealing edge of LED board), and acrylic field end cap.



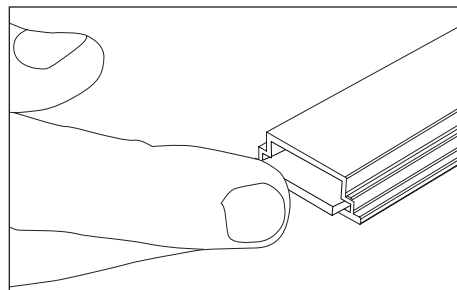
- 2. Cutting custom lengths:** Each SlimLINER can be cut in the field—for two (2) usable sides—in approximate 5 ½ in (140 mm) increments. If a custom length is required, use a power miter saw to make a clean, straight cut on the black cut line. NOTE: Perpendicular cuts ONLY. Set miter saw to 0°. No angled cuts. After cutting, each piece will still light if connected to power.



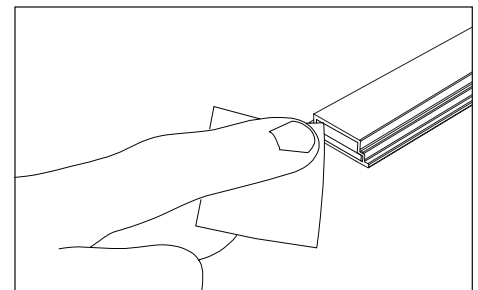
- 3. Deburr LED board and extrusion:** Gently pull LED board out of extrusion about ¼ in (6 mm). Deburr cut-end of LED Board and SlimLINER extrusion with enclosed sandpaper. Make sure to remove all debris from LED board and extrusion.



- 4. Seal end of LED board with conformal coat:** Brush Humiseal 1B73 conformal coat onto cut edge of LED board to seal from moisture. Allow to dry for 7 minutes. Do not apply conformal coat to cut edge of extrusion or end cap.

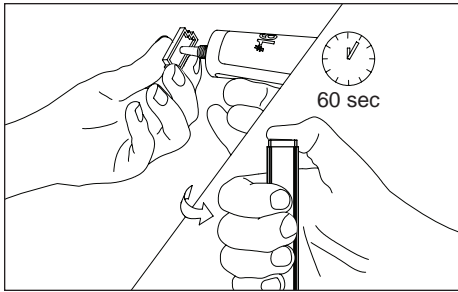


- 5. Push PCB back into extrusion:** After Humiseal has dried for at least 7 minutes, press the circuit board as far into the tube as it will go.



- 6. Clean extrusion:** Ensure end of extrusion is clean and free of any foreign material. If any Humiseal adhered to the extrusion, gently sand off. Avoid sanding the edge of the LED board.

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7. **Cap custom cut lengths:** Clean any debris from cut end and ensure that any exposed wires are not in contact with each other (trim wires if necessary). Apply IPS Weld-On #16 to entire rim of SlimLINER field end cap and bond to the cut end of SlimLINER segment. Apply pressure to end cap for 60 seconds to ensure a strong bond.

NOTE: After cutting a custom length, any piece with black and red wires protruding from original end cap will still light.

CAUTION: It is important to review and follow the safety instructions on the IPS Weld-On #16 packaging.

WARNING: Field end caps must not have any gaps which would allow water penetration. Ensure end cap completely seals the end of the SlimLINER section.

WARNING: Field end cap must create a water tight seal. All debris must be removed to promote a good end cap bond and to avoid electrical failure. Use of other types of saws and/or use of a dull blade may lead to chipping or cracking of the extrusion or create a cut that cannot be sealed resulting in product failure. Ensure extrusion bonding surface is clean. Contaminants or any adhesive other than Weld-On #16 on this surface may lead to poor bonding, water ingress, and product failure. Product failures resulting from failure to strictly follow field cut instructions are not covered by any product warranty.

12 VDC Power Supply Capacity Chart for SlimLINER

Power supply	Part number	Input		Output		Fixtures	Max feet (meters)
		Nominal input voltage	Input current	Power output	Output current		
Self-Contained 20 W	701680	100-240 V	0.55 A	20 W	1.5 A	2	8 (2.4)
60C1 60 W	701507-60C1	100-277 V	0.80 A	60 W	4.5 A	6	24 (7.3)
60W1 60 W	701507-60W1	100-240 V	0.85 A				
60W2 60 W	701507-60W2	100-277 V	0.80 A				
MODW(E) 60 W	701507-MODW(E)	100-240 V	1.00 A				
MOD277 60 W	701507-MOD277	277-347 V	0.50 A				
120D1 120 W	701507-120D1	100-277 V	1.70 A	2 × 60 W	2 × 4.5 A	6 × 2	24 (7.3) × 2
All footage based on 90% of rated capacity				Power used per foot (meter) in watts:		2.25 W (7.4)	

NOTE: Each 12 V circuit must be limited to 5 A (60 W) or less. For North American installations, a power supply that meets NEC Class 2 specifications is required.

Troubleshooting

NOTE: A licensed electrician should perform all applicable steps.

Entire SlimLINER leg does not light after complete installation.	Check connection from power supply lead to first section of SlimLINER. Make sure polarity of connections made at power supply lead, any jumper wire, and at first section are correct. All connections must be RED-to-RED and BLACK-to-BLACK.
Still does not light.	Disconnect SlimLINER from power supply. Check output voltage of power supply using a multimeter. The output voltage should be 12.0 VDC ± 0.5 VDC. If there is no output voltage, have a licensed electrician check input voltage. Make sure power supply is connected correctly and getting primary power. If power supply is connected properly and getting primary power and there is still no output voltage, replace power supply.
Still does not light.	If power supply is getting primary power, has the correct output, and no sections light, there may be a short in the secondary wiring. Check all connections and cap all loose wires.
The beginning of a leg lights, but entire leg does not light or lights intermittently.	The primary cause of a portion of a SlimLINER leg not lighting or lighting intermittently is a bad connection or reverse polarity connection between the sections that light and sections that don't light. Check this connection.
An entire power supply leg of SlimLINER is dim.	Ensure maximum number of feet (meters) has not been exceeded (see above 12 VDC Power Supply Capacity Chart). Check secondary voltage. If voltage is below 11.5 VDC, power supply leg may be overloaded.
One segment does not light, but all others in the leg light.	SlimLINER is designed so if one segment fails, it will not cause the entire leg to go out. If one segment does not light, but all others in the leg do, replace the entire section with a new one.



UL file number: E215393

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