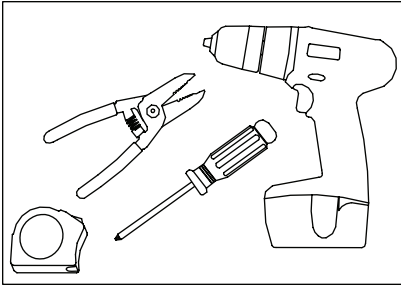
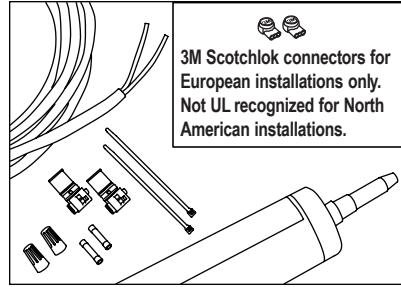


V Series

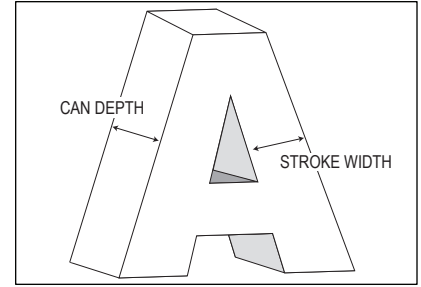
Installation Guide 701269-(Color)LPY-MB and 701269-(Color)LP-MB



1. **Tools required:** Measuring tape, wire strippers (optional: drill, screwdriver).

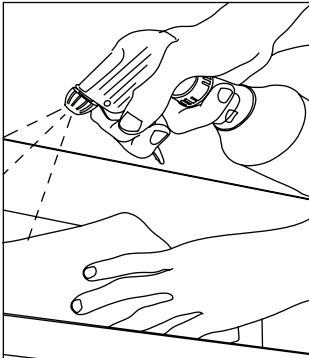


2. **Supplies Required:** PLTC cable, wire nuts, IDC connectors or butt splices and cable ties Optional: screws and silicone. **(3M™ Scotchlok™ connectors for European installations only.)**

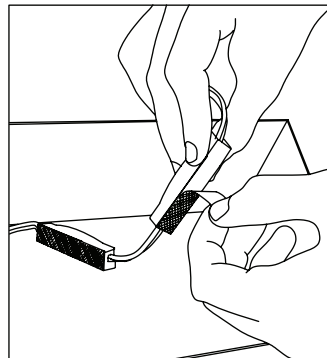


3. **Layout:** To populate sign, refer to V Series density guidelines, test, or contact your SloanLED representative for recommendations.

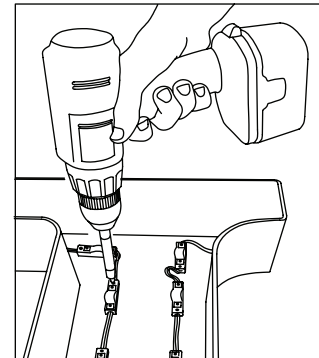
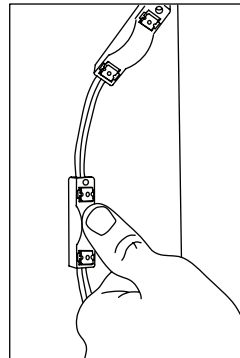
Note: Modules must be mounted in an enclosed sign cabinet/box. This product is not suitable for immersion or direct exposure to water for extended periods of time.



4. **Clean Channel Letter:**
Clean inside letter with rubbing alcohol and allow to dry.



5. **Peel and Stick:** Using predetermined layout and LED placement from step 3, remove tape backing and stick modules into place. Ensure modules are firmly attached. **(CAUTION:** when handling the module, avoid pressing down directly on top of LED.)

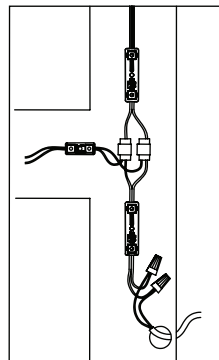


6. **Fasteners:** If desired, modules can be secured with #6 pan head sheet metal screws or 1/8 in (3 mm) aluminum rivets.

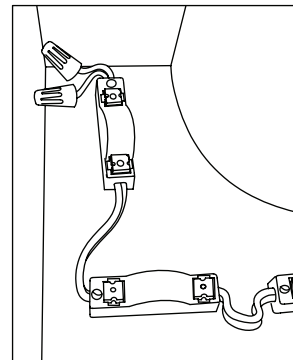
WARNING

Check polarity:

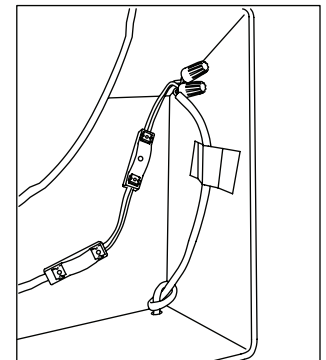
All connections must be RED-TO-RED (+) and BLACK-TO-BLACK (-). Reverse polarity connections may damage the LEDs and will void product warranty.



7. **Connections:** Modules may be connected in series or parallel.



8. **Cap all Unused Wires:** Strand of modules should not be looped to create a closed circuit.



9. **Connect Power Supply to First Module on String:** See Power Supply Install Guide for more information regarding power supply installation.

V Series

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12 VDC Power Supply capacity chart for V Series

Power Supply	Part # (Each)	Input		Output		Maximum feet (meter) / Modules
		Nominal Input Voltage	Input Current	Power Output	Output Current	All Colors (Red, Orange, Yellow, Green, Blue, Whites)
Self-Contained 20 W	701680	120-240 V	0.55 A	20 W	1.5 A	10 (3) / 30 modules
Compact 12/25 W	410174	120-277 V	0.40 A	25 W	1.9 A	12.3 (3.8) / 37 modules
60C1 60 W	701507-60C1	100-277 V	0.80 A	60 W	4.5 A	30 (9) / 90 modules
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)	120-240 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	2 × 30 (9) / 90 modules
Power used per Foot (Meter) in Watts:						1.8 W (5.9)

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.

Extension of Power Supply Leads

If longer lead wire from power supply to LED modules is needed, an extension can be used. Extension should be kept as short as possible: under 15 ft for 18 AWG UL Listed PLTC or under 50 ft for 14 AWG UL Listed PLTC. (4.6 m for 1mm² or under 15.2 m for 2.5mm²).

Troubleshooting:

Entire sign or leg does not light after complete installation.	Check connection from power supply lead to first module. Make sure polarity of connections made at the power supply lead and any jumper wire is correct. Power supply outputs should be connected RED-to-RED and BLACK-to-BLACK.
Still does not light.	Check output voltage of power supply using a voltmeter. The output voltage should be DC 12.0 V ± 0.5 V. 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, try a different power supply.
Still does not light.	If power supply is getting primary power and modules don't light, there may be a short in 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 V Series leg not lighting or lighting intermittently is a bad connection or reverse polarity connection between modules that light and modules that don't light. Check this connection.
One module does not light, but all others in the leg light.	V Series is designed so if one module fails, it will not cause the entire sign or leg to go out. If one module does not light, but all others in leg do, replace this module with a new one.



Customer service and technical support

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