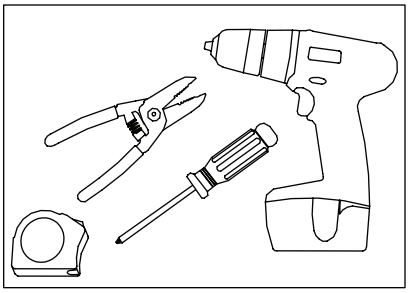
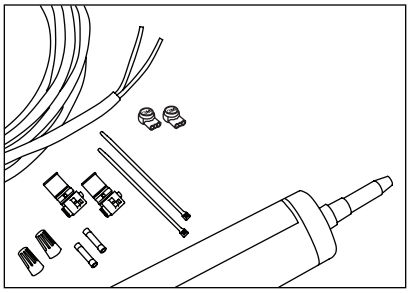
VL Plus

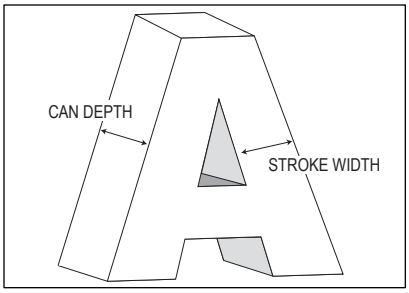
Installation Guide for 701269-(XXX)A1-MB, 701269-WVL(X)-MB, 701269-RVL(X)-MB



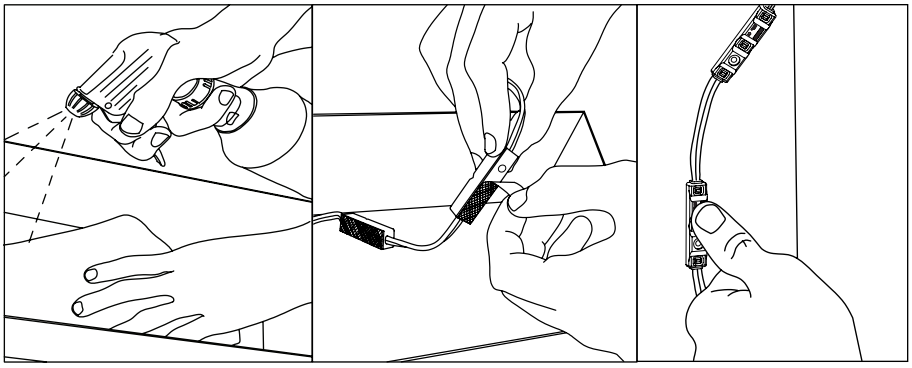
1. **Tools required:** Measuring tape, wire strippers (optional: drill, screwdriver).



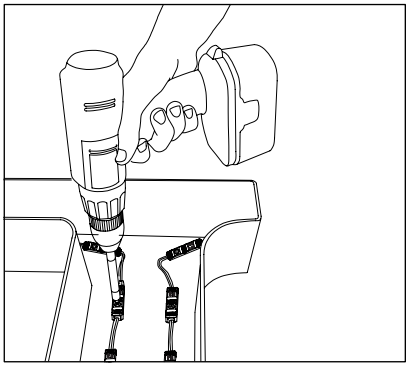
2. **Supplies required:** PLTC cable, wire nuts, IDC connectors or butt splices with appropriate safety agency markings, and cable ties. Optional: screws and silicone.



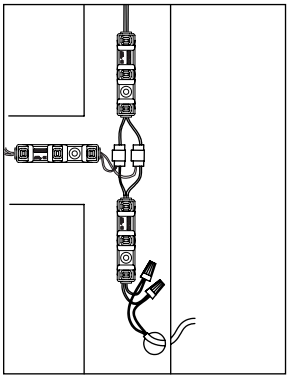
3. **Layout:** To populate sign, refer to density guidelines, test, or contact your SloanLED representative for recommendations.



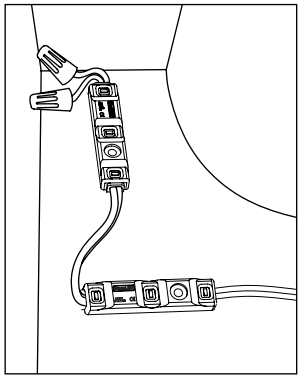
4. **Peel and stick:** Clean inside sign with rubbing alcohol and allow to dry. Using predetermined layout and LED placement from Step 3, remove tape backing and stick modules into place. Ensure modules are firmly attached. **CAUTION:** When handling modules, avoid pressing down directly on top of LEDs.



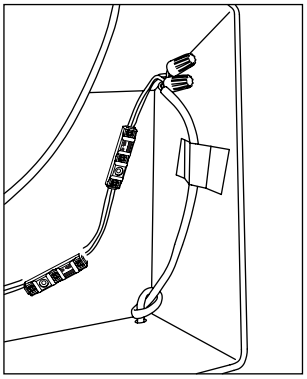
5. **Fasteners:** If desired, modules can be secured with #6 (3,5 mm) pan head sheet metal screws or 1/8 in (3 mm) aluminum rivets.



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



7. **Cap all unused wires:** The strand of modules should not be looped to create a closed circuit.



8. **Connect power supply to first module on string:** See Power Supply Install 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 the LEDs and will void product warranty.

SloanLED®
Leaders in LED Technology

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DC 12 V Power Supply capacity table for VL Plus

		Input		Output		Maximum feet (meter)/ Modules					
Power Supply	Part Number	Nominal Input Voltage	Input Current	Power Output	Output Current	Red Long	Red, Orange & Yellow Short	Green & Blue Short	White Long	White Short	White Mini
Self Contained 20	701680	100-240 V	0.3 A	20 W	1.5 A	25 (7,6)/50	25 (7,3)/62	20 (6,1)/50	25 (7,6)/50	20 (6,1)/50	16 (4,9)/65
MODW 60 W (North America)	701507-MODW	100-240 V	1.0 A	60 W	4.5 A	75 (23)/150	75 (22,9)/187	60 (18,3)/150	75 (23)/150	60 (18,3)/150	49 (14,9)/196
MODWE 60 W (Europe)	701507-MODWE	100-240 V	1.0 A	60 W	4.5 A	75 (23)/150	75 (22,9)/187	60 (18,3)/150	75 (23)/150	60 (18,3)/150	49 (14,9)/196
MOD277 60 W	701507-MOD277	277-347 V	0.5 A	60 W	4.5 A	75 (23)/150	75 (22,9)/187	60 (18,3)/150	75 (23)/150	60 (18,3)/150	49 (14,9)/196
Power used per foot (meter) in Watts						0.72 (2,35)	0.73 (2,38)	0.90 (2,95)	0.72 (2,35)	0.90 (2,95)	1.12 (3,67)

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 1 mm² or under 15,2 m for 2,5 mm²).

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 the modules don't 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 the entire leg does not light or lights intermittently.	The primary cause of a portion of a VL Plus leg not lighting or lighting intermittently is a bad connection or reverse polarity connection between the modules that light and the modules that don't light. Check this connection.
One module does not light, but all others in the leg light.	VL Plus modules are designed that 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 the leg do, replace this module with a new one.

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P/N 401014 Rev D 2015-11-04

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