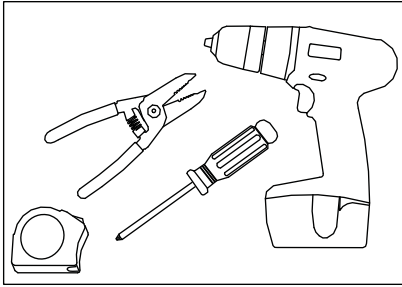
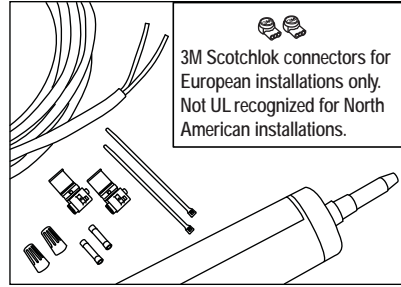


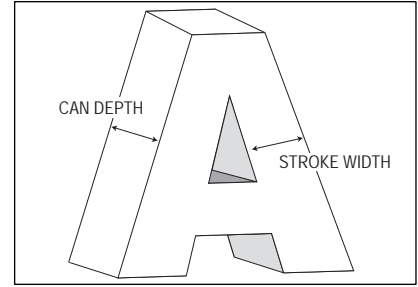
Installation guide for 701269-WLP2-MB



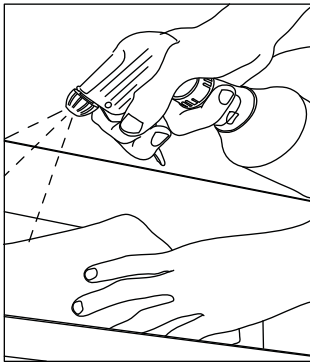
1. **Tools required:** measuring tape, wire strippers, optional: drill, screwdriver



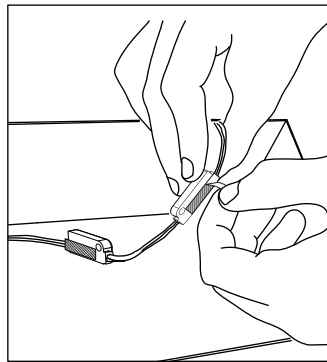
2. **Supplies required:** PLTC cable, wire nuts, IDC connectors or butt splices and cable ties, optional: screws and silicone (3M Scotchlok connectors for European installations only.)



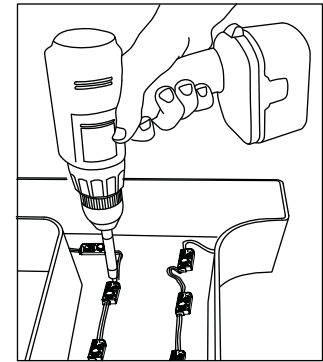
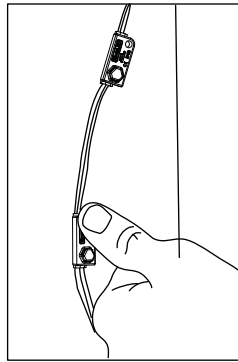
3. **Layout:** For layout guidelines for V180 either test or contact your SloanLED representative for recommendations.



4. **Clean channel letter:** clean inside the letter with rubbing alcohol and allow to dry.



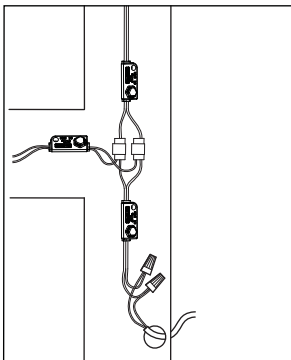
5. **Peel and stick:** using predetermined layout and LED placement from step 3, remove tape backing and stick modules into place. Ensure modules are firmly attached. (**CAUTION:** when handling the module, avoid pressing down directly on top of LED.)



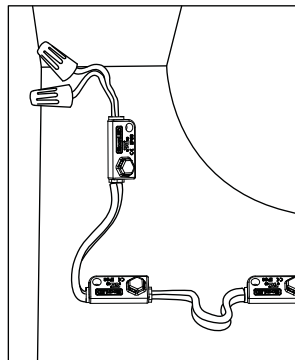
6. **Fasteners:** if desired, modules can be secured with 3,5 mm (#6) pan head sheet metal screws or 3,0 mm (1/8 in) aluminum rivets.

WARNING Check polarity:

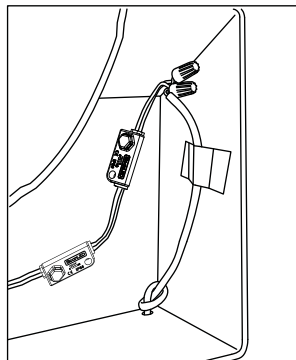
All connections must be RED-TO-RED (+) and BLACK-TO-BLACK (-). Reverse polarity connections may damage the LEDs and will void product warranty.



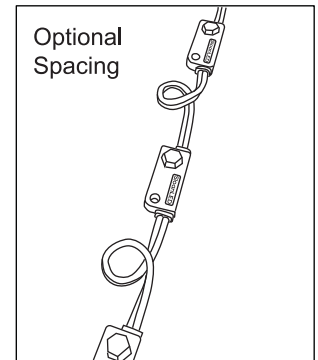
7. **Connections:** modules may be connected in series or parallel.



8. **Cap all unused wires:** the 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.



NOTE: If sign requires modules to be condensed from natural wire spacing, loop wires as shown to avoid wires creating shadows on the sign face.



Installation guide for 701269-WLP2-MB

For layout guidelines for V180 either test or contact your SloanLED representative for recommendations.

12 Volt DC power supply capacity chart for V180

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, white)
Self Contained 20	701680	120-240 V	0.3 A	20 W	1.5 A	20 (6,3) / 50 modules
Mod 60	701507-ModW	120-240 V	1.0 A	60 W	4.5 A	60 (18,7) / 150 modules
Quad 240*	701495	120-240 V	3.6 A	240 W	4.5 A / leg	240 (75,0) / 600 modules
Power used per meter (foot) in Watts: 2,88 (.9)						

*Quad 240 has four output legs; maximum lengths expressed are total (divide by four for maximum per leg).

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 4,6 m for 1mm² PLTC or under 15,2 m for 2.5 mm² PLTC (15 ft for 18 AWG UL Listed PLTC or under 50 ft for 14 AWG UL Listed PLTC).

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 \pm 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 V180 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	V180 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 the leg do, replace this module with a new one.

US patents and foreign patents pending



UL file number: E215393



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