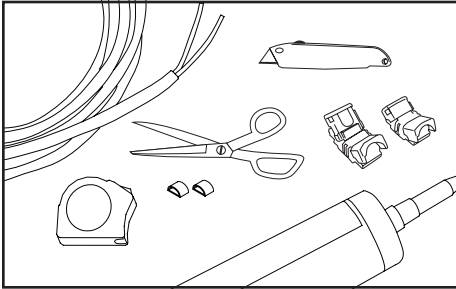
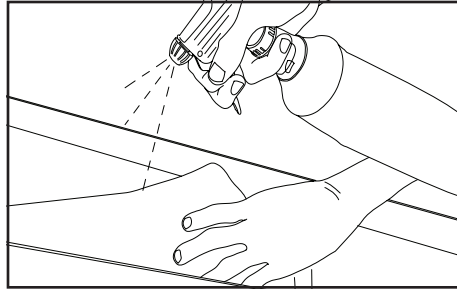


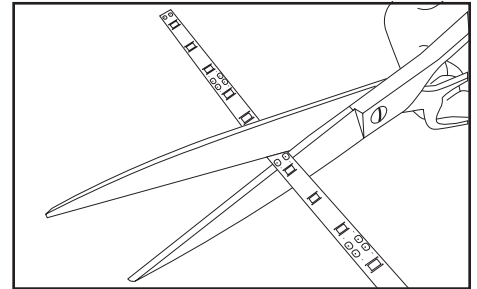
Installation Guide for 701990-(XX)12SA1



Tools and supplies: Required: Measuring tape, scissors or shears. **Optional:** PLTC cable, utility knife, Dow Corning® 737 or equivalent Principal Sloan approved neutral cure sealant. Soldering iron or FlexTAPE connectors. FlexTAPE silicone end caps.

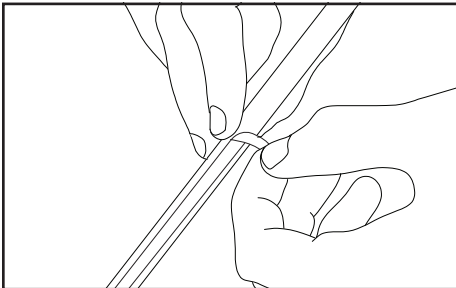


1. Clean surface: Clean inside channel letter or mounting track (FlexTAPE product dimensions are 0.32" x 0.11") with rubbing alcohol and allow to dry.

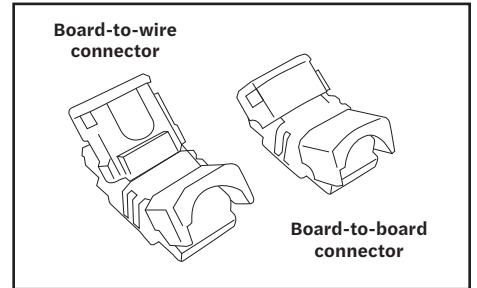
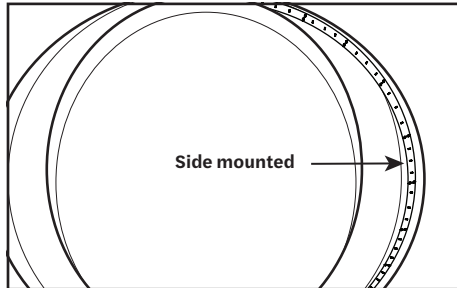


2. Cut to length: FlexTAPE can be cut in approximate 2" segments. Cut FlexTAPE to desired length.

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. **AVERTISSEMENT:** Les modules doivent être montés dans une armoire / boîte de signalisation fermée. Ce produit ne convient pas à l'immersion ou à l'exposition directe à l'eau pendant de longues périodes.

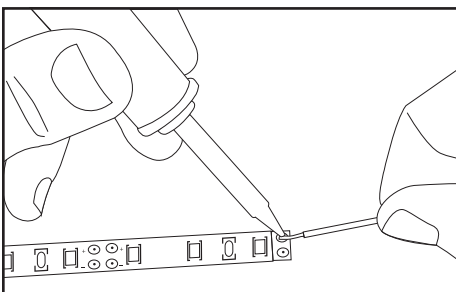


3. Peel and stick: Using predetermined layout, remove tape backing and stick strip in place. Ensure strip is firmly attached.

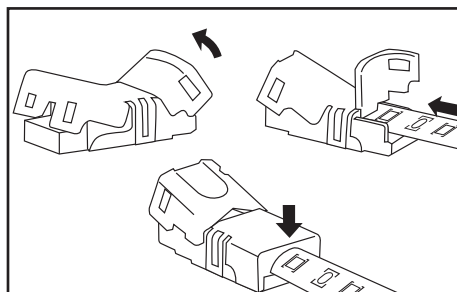


4. Connections: Sections may be connected in series or parallel. Connections may be made by soldering to wire pads or using FlexTAPE connectors. **NOTE:** To avoid significant line loss, do not use more than 16.4 ft in series.

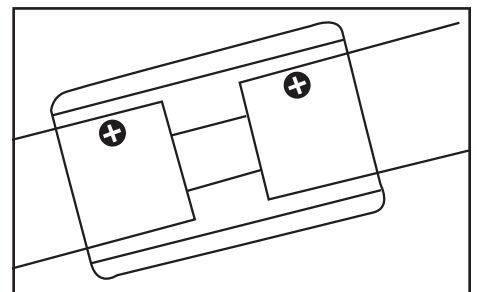
NOTE: Avoid pressing down directly on top of LEDs or circuit components and use caution to not damage LEDs or circuit components in tight bends around sharp corners. **REMARQUE:** Évitez d'appuyer directement sur les DEL ou les composants du circuit et veillez à ne pas endommager les DEL ou les composants du circuit dans les virages serrés autour des angles aigus.



4a. Solder connections: Wire connections can be made by soldering to top or bottom side wire pads. If soldering to bottom pads, remove tape covering pads prior to soldering. If soldering to top wire pads, very carefully remove clear modling material prior to soldering. Do not cut or damage traces. Take care to ensure correct polarity. Ensure connections are covered after soldering to avoid electrical short circuits. If soldering wires, it is recommended to use silicone end cap (P/N: 402566) and silicone seal cut end and solder joint. See step 5.



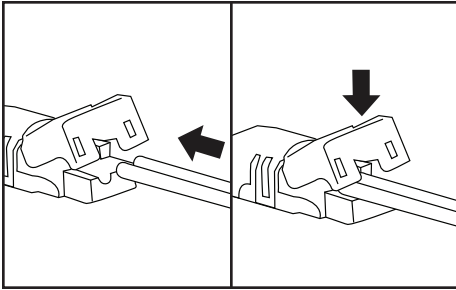
4b. FlexTAPE connectors: Open connector and insert FlexTAPE until fully seated. Press down on transparent cover until fully snaps into place.



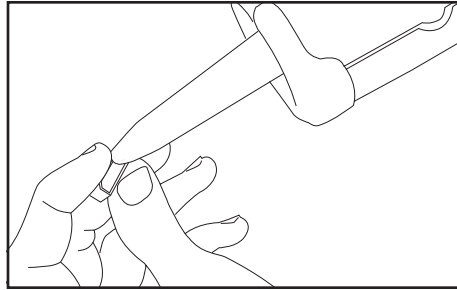
4c. For board-to-board connectors, ensure that polarity of connections matches (+) to (+) and (-) to (-).

NOTE: All electrical connections must be protected from mechanical damage and the environment. Seal all connections that may be exposed to water with electrical grade non-corrosive silicone. **AVERTISSEMENT:** Toutes les connexions électriques doivent être protégées des dommages mécaniques et de l'environnement. Scellez toutes les connexions qui peuvent être exposées à l'eau avec du silicone non corrosif de qualité électrique.

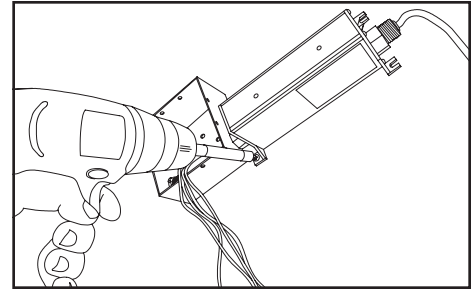
Installation Guide for 701990-(XX)12SA1



4d. For board-to-wire connectors, insert wires into opposite (longer) side of connector. Stranded 18-22 AWG wire may be used. DO NOT strip wires. Ensure wire polarity is correct, (+) to (+) and (-) to (-). Insert wires until fully seated and press down on transparent cover until it fully snaps into place.



5. Seal all cut ends and connections with clear electrical grade non-corrosive silicone. On cut ends, use FlexTAPE silicone end caps for a reliable seal. Fill end cap with clear silicone and slide onto ends of FlexTAPE. Wipe off excess silicone. When using silicone end caps, use P/N 402566 for ends with wires and 402566-NH for ends without wires.



6. Connect power supply: See Power Supply Installation Guide for more information regarding power supply installation.

12 VDC Power Supply Capacity Chart

Power output	Maximum feet	
	Red	White (6500 K, 5000 K, 3500 K)
20 W	16.4	12.8
60 W	49.2	38.4
120 W	2 x 49.2	2 x 38.4
Power used per ft in Watts	1.1 W	1.4 W

Capacities based on 90% of power supply output.

Troubleshooting

NOTE: A licensed electrician should perform all applicable steps.

Entire FlexTAPE leg does not light after complete installation.	Check connection from power supply lead to first section of FlexTAPE. 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 (+) and BLACK to (-).
Still does not light.	Disconnect FlexTAPE from power supply. Check output voltage of power supply using a multimeter. The output voltage should be 12.0 VDC \pm 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 FlexTAPE leg not lighting or lighting intermittently is a bad connection or reverse polarity connection between sections that light and sections that don't light. Check this connection. Inspect FlexTAPE for damage. Ensure there are not cuts in assembly.
An entire power supply leg of FlexTAPE is dim.	Ensure maximum number of feet 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.	FlexTAPE 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.



Customer service and technical support

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