

Commercial Grade Light String

Installation instructions for LS-C, LS-I, LS-M and LS-MS light string product for permanent installation

WARNING: These products may represent a possible shock or fire hazard if improperly installed or attached in any way. Products should be installed in accordance with the owners manual, current electrical codes and/or the current National Electric Code (NEC).

CAUTION – To reduce the risk of fire, electric shock or injury to persons:

1. Commercial Grade Light String is intended for installation by trained, qualified electrical contractors.
2. Light string can be supported by steel guide cables, with zip ties and eyebolts. Proper diameter cabling must be used for the maximum span distance between supports according to local building codes. See chart on reverse side for maximum span distances between supports.
3. Suspend strings properly by attaching suspension cable (not provided) to solid support structures, such as joists, beams or wall studs.
4. Light sockets must be suspended so that bulbs are facing down ONLY.
5. Keep combustible material clear of bulbs. Do NOT allow lamps or sockets to come into contact with walls, ceilings, fabrics associated with shades, blinds or other materials. Lamps should hang freely in a downward direction with a minimum of 3" space from the nearest object.
6. Do not cluster the bulbs.
7. Not intended for installation in ceilings, soffits, cabinets or other enclosed spaces.
8. Not intended for lighting aquariums.
9. Do NOT secure light string to buildings or other structural supports using nails, staples or other sharp, conducting materials.
10. Avoid damage to the insulation during installation. Do NOT pierce or otherwise compromise wire's or socket's outer covering, jacket or sheathing.
11. Periodically inspect wire and sockets for degradation due to weather, UV light or other damage. Promptly replace worn out light string.
12. **DO NOT MOUNT THE LIGHT STRINGS WITH SOCKETS FACING UPWARD!**
13. **DO NOT OVERLOAD ANY SOCKET'S MAXIMUM WATTAGE RATING!**
14. **DO NOT OVERLOAD MAXIMUM WATTAGE CAPACITY IN ANY RUN!**

WARNING – RISK OF ELECTRIC SHOCK!! Disconnect power at source prior to wiring, re-lamping or servicing in any way.

LIGHT STRING KITS WITH FUSED PLUG

1. Do not connect the light string to any other string.
2. The light string kits are supplied with an attached polarized plug that will only fit into a polarized outlet. If it does not fit, reverse the plug. If it still does not fit, contact a qualified electrician. Do not alter the plug.
3. **DO NOT EXCEED THE MAXIMUM WATTAGE FOR LIGHT STRING KITS WITH ATTACHED PLUG: 600 WATTS!**



Commercial Grade Light String

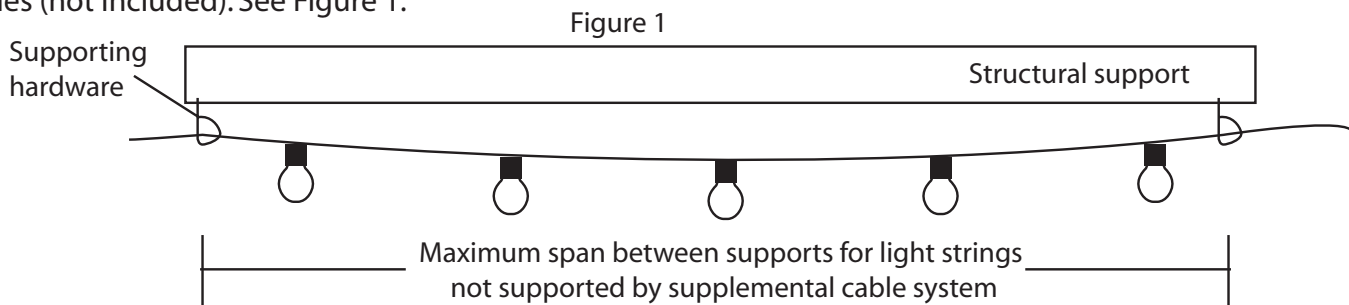
Installation instructions for LS-C, LS-I, LS-M and LS-MS light string product for permanent installation

SUSPENDING LIGHT STRINGS

- Light string must be securely attached to a support structure at each end of each span. See chart below for maximum span distances:

MODEL #	Max. span between supports
LS-M and LS-MS 24" spacing between sockets	10 sockets or 20'
LS-I with 15" spacing between sockets	15 sockets or 19'
LS-C with 12" spacing between bulbs	20 sockets or 20'

- Secure light string to supporting hardware (eyebolts, brackets, etc., not provided) using cable ties (not included). See Figure 1.

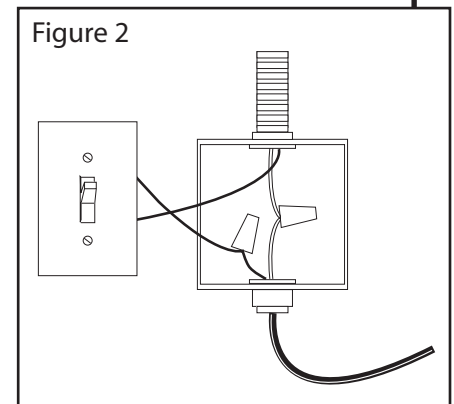


- For spans exceeding the above, use properly rated cable support system and cable ties (both not provided) and follow local codes for suspended structures and loads.

CONNECTING LIGHT STRINGS TO POWER SOURCE

WARNING – RISK OF ELECTRIC SHOCK!! Disconnect power at source prior to wiring and follow any required lock-out/tag-out procedures. Wiring instructions intended for use by qualified and licensed electrical contractors.

- Located power source in properly rated junction box (not supplied) for indoor or outdoor application. See Figure 2.
- Thread light string end through strain relief fitting (indoor installations) or water tight strain relief fitting (outdoor installations) and into junction box.
- Connect light string to power source: smooth wire to black (hot) wire; ribbed wire to white (neutral) wire.
- Ensure that no bare wires are exposed outside the electrical connections.
- Power source may be switched with properly rated switch or dimmer control (not provided). Maximum run according to the following table:



MODEL #	Max Load per socket	Max Load Watts*	
		Plug-in	Hardwire
LS-M and LS-MS	25	600	1200
LS-I	10	600	1200
LS-C	10	600	1200

*Assumes 16AWG is used for connection to power source. Check local electrical codes for variations before installation or lamping light string.



Commercial Grade Light String

Installation instructions for LS-C, LS-I, LS-M and LS-MS light string product for permanent installation

RE-LAMPING LIGHT STRINGS

WARNING – RISK OF ELECTRIC SHOCK!! Disconnect power at source prior to re-lamping light strings. For outdoor light strings, do NOT re-lamp light strings during rain or other inclement weather conditions.

1. Re-lamp light strings only during dry and calm weather conditions.
2. Unscrew existing lamps by lightly holding the socket in one hand and twisting the lamp counter-clockwise. Lamps may be tight in the sockets. This is normal to prevent moisture from getting into the socket.
3. Replace with proper wattage and type lamps according to the following chart.

MODEL #	Max Load per socket	Max Load Watts*	
		Plug-in	Hardwire
LS-M and LS-MS	25	600	1200
LS-I	10	600	1200
LS-C	10	600	1200

*Assumes 16AWG is used for connection to power source. Check local electrical codes for variations before installation or lamping light string.

4. DO NOT OVERLOAD SOCKETS OR LIGHT STRING!!

COMMERCIAL GRADE LIGHT STRINGS SPECIFICATIONS

Specifications	LS-C Series	LS-I Series	LS-M Series	LS-MS Series
Socket Type	Candelabra Base	Intermediate Base	Medium Base	Medium Base
Max Bulb Wattage	10 watt	10 watt	25 watt	25 watt
Max Amperage Load	10 Amps	10 Amps	10 Amps	10 Amps
Lamp Spacing	12 inches	15 inches	24 inches	24 inches
Max Run - Watts*	1200 watts	1200 watts	1200 watts	1200 watts
Max # of Sockets	130 sockets	120 sockets	48 sockets	48 sockets
Max Run Distance	130 feet	150 feet	96 feet	96 feet

*Maximum run for bulk light string and 100 foot kits is 1200 watts, based on 10 amps allowed on 16AWG wire.
Maximum run for 48 foot light string kits is 600 watts based on 24 sockets at 25 watts max each.

