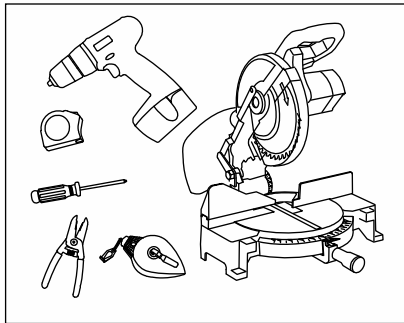
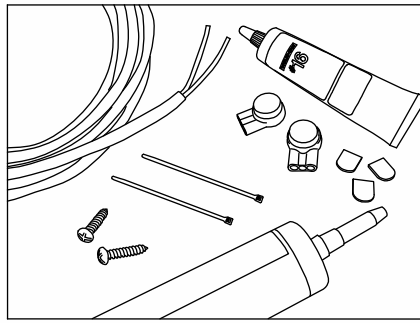


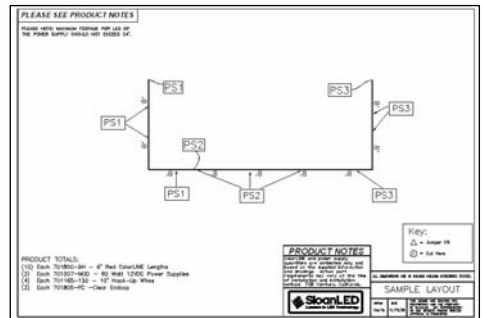
# COLORLINE INSTALLATION GUIDE



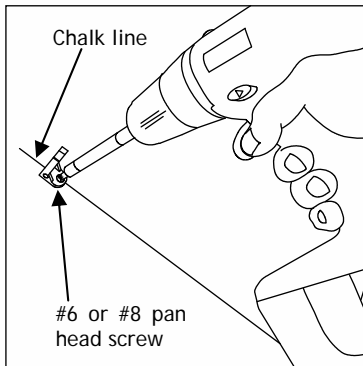
**1. Tools Required:** Measuring tape, wire strippers, drill, screwdriver, chalk line, and miter saw (for custom cut lengths).



**2. Supplies Required:** PLCC cable, Weatherproof IDC connectors, cable ties, #6 or #8 pan head screws with suitable threads for mounting surface, silicone (outdoor rated caulk), IPS Weld-On #16, and field cut end caps.



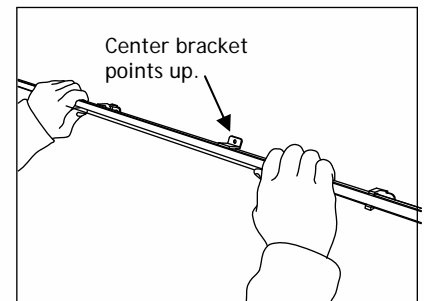
**3. Layout:** Use an architectural drawing in combination with the Power Supply Capacity chart (below) or layout provided by SloanLED (sample layout above) to determine the number and length of ColorLINE sections and power supplies required for your installation.



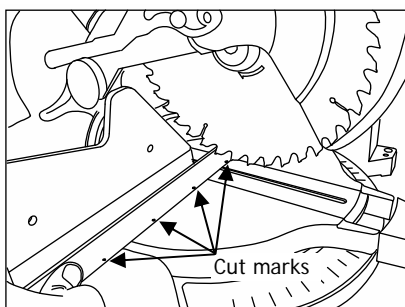
**4. Install mounting clips:** Snap a chalk line on surface for mounting. Space mounting clips every 12" along chalk line and 1-1/2" from the end of each ColorLINE section. Orient clips so screws are towards center of each ColorLINE section.

### Power Supply Capacities:

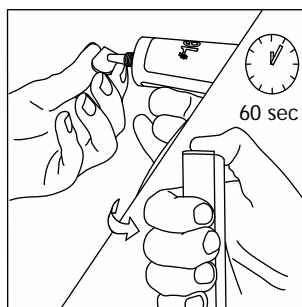
Power Supply	Part # (Each)	Power Output	Maximum Number of Feet (Meters)
Self Contained 20	701680	20 Watts	8 (2.5)
Modular 60	701507-MOD	60 Watts	24 (7.5)
Quad 240	701494	240 Watts	96 (30) total 24 (7.5) per leg
Power Used per Foot (Meter) in Watts -All Colors			2.28W (7.5W)



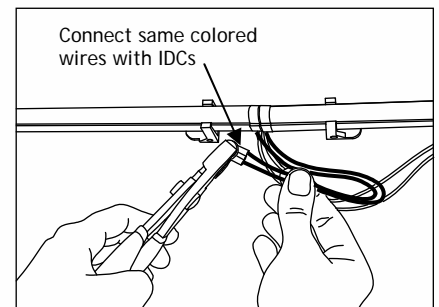
**5. Install ColorLINE sections into clips:** Snap ColorLINE sections into mounting clips. Use #6 or #8 pan head screws to secure center bracket once all sections are located on the mounting surface.



**6. Custom Lengths:** ColorLINE may be cut on any of the black marks (2.4" apart). If a custom length is required, use a miter saw to make a clean, straight cut. **Note:** Perpendicular cuts ONLY. Set miter saw to 0°. No angled cuts. Clean any burrs and debris from cut end and ensure that any exposed wires are not in contact with each other (trim wires if necessary). Apply IPS Weld-On #16 to entire surface of a ColorLINE Field Cut End Cap and bond to the cut end of ColorLINE segment. Apply pressure to end cap for one minute to ensure a strong bond. **Note:** After cutting a custom length, any piece with black and red wires protruding from the original end cap will still light. Follow all of the manufacturer's recommendations when using Weld-On #16 adhesive. MSDS available at [www.ipscorp.com](http://www.ipscorp.com).

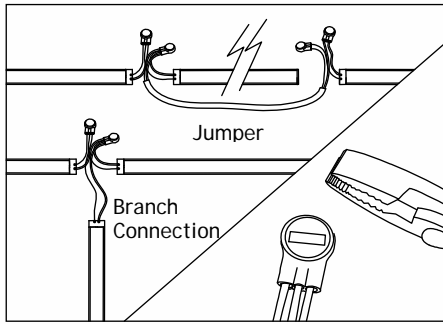


**Warning!** Field end caps must not have any gaps which would allow water penetration. Ensure end cap completely seals the end of the ColorLINE section.



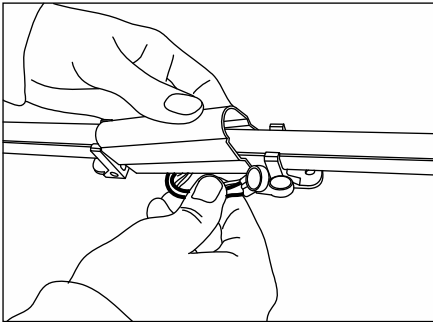
**7. Connect ColorLINE Sections in a Chain:** Cut wires to appropriate length and crimp same colored wires together using weatherproof Insulation Displacement (IDC) Connectors. Connections must be RED-TO-RED and BLACK-TO-BLACK. Press connector with pliers until red button is fully depressed.

**Corners:** To ease installation, install any optional mitered corners prior to mounting straight sections or making field cuts. Use two mounting clips on each side of the corner.



**Note:** Leave a 1/4" gap between sections if temperature during installation is below 40°F (4°C).

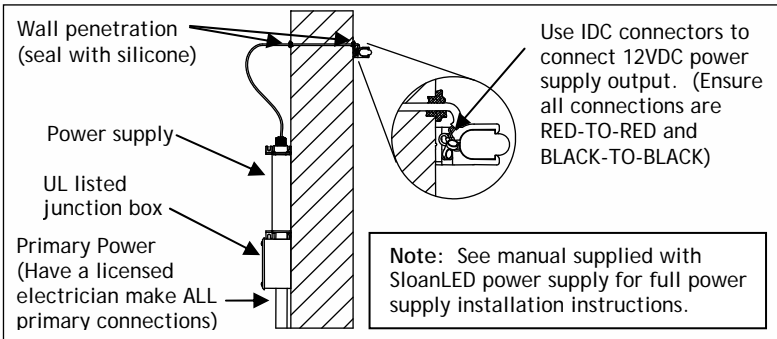
**Warning! Check Polarity:**  
All connections must be RED-TO-RED and BLACK-TO-BLACK. Reverse polarity connections may damage the LEDs and will void the product warranty.



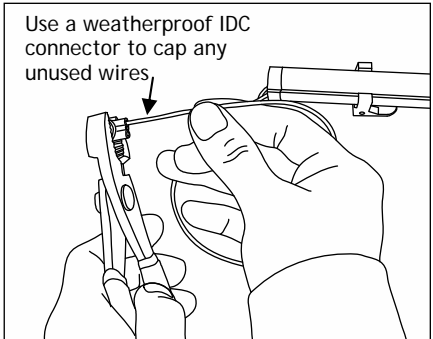
**8. Creating jumpers or branch connections:**  
If jumper or branch connection is required, cut wire or PLTC cable to desired length and use third port on IDC connector as necessary to make connections. All connections must be RED-TO-RED and BLACK-TO-BLACK.

**9. Snap Covers Into Place:** Tuck all loose wires at joints behind ColorLINE extrusion and cover with a joint cover.

**Wire Jumpers and Extension of Power Supply Leads**  
If a longer lead wire is needed from power supply to first ColorLINE section or to connect two sections together, a jumper wire can be created. Wire jumpers should be kept as short as possible (under a total of 15 feet for 18 AWG UL Listed PLCC or under 50 feet for 14 AWG UL Listed PLCC). All connections must be RED-TO-RED and BLACK-TO-BLACK



**Note:** See manual supplied with SloanLED power supply for full power supply installation instructions.



**10. Connect ColorLINE Chain to Power Supply:** Connect wires from first section of ColorLINE chain to power supply wires using provided Insulation Displacement (IDC) Connectors. Connections must be RED-TO-RED and BLACK-TO-BLACK. (See above if additional wire is required to make a power supply connection.) **Warning!** All primary power supply connections must be made by a licensed electrician.

**11. Cap wires:** Trim and cap all unused wires to prevent accidental shorting of wires. **DO NOT CONNECT RED WIRE TO BLACK WIRE.**

**Troubleshooting:**

**UL FILE NUMBER: E215393**

Covered by US patents 6776504, 6969179, 7192157 and US and foreign patents pending.

Entire ColorLINE leg does not light after complete installation.	Check connection from power supply lead to first section of ColorLINE. Make sure polarity of connections made at the power supply lead, any jumper wire, and at the first section are correct. All connections must be RED-TO-RED and BLACK-TO-BLACK.
Still does not light.	Disconnect ColorLINE from power supply. Check output voltage of power supply using a voltmeter. The output voltage should be 12.0VDC ± 0.5VDC. 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 the entire leg does not light or lights intermittently.	The primary cause of a portion of a ColorLINE leg not lighting or lighting intermittently is a bad connection or reverse polarity connection between the sections that light and the sections that don't light. Check this connection.
An entire power supply leg of ColorLINE is dim.	Ensure maximum number of feet has not been exceeded (see Power Supply Capacity Chart). Check secondary voltage. If voltage is below 11.5VDC, power supply leg may be overloaded.
One segment does not light, but all others in the leg light.	ColorLINE 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.