

**KEITH SCOTT AND CO.**

LANDSCAPE & BUILDING STONE MATERIALS



Cast Lighting Series  
By: Keith Scott and Company

# About Cast Lighting System

- CAST Fixtures are constructed entirely of handmade solid sand-cast bronze. Bronze was selected because it is nearly impervious to corrosion and physical abuse.
- Lifetime warranty on all fixtures and transformers.
- 25 Year warranty on marine grade tin coated low voltage wire.
- Each fixture come with a minimum of 25 feet of 16-2 tin coated wire.
- Each fixture comes with a solid bronze ground stake installation tag, stainless steel lamp contacts and hardware, nickel-plated brass sockets, crimped and soldered connections and convex lenses.

# Plant Manufacture Pictures



The sand-cast process used to make CAST lights is centuries old, and skilled artisans hand make each fixture, the same craftsmen inspect each piece.



# Why Install Low Voltage Landscape Lighting?

- Security- High voltage floodlights leave dark shadows and unseen areas around a property. A better choice is strategically placed low voltage lights that low levels of even illumination.
- Safety- Low voltage lighting is the ideal choice for illumination walkways and entranceways. This ensures that residents and visitors can safely navigate the property.
- Usability- Illuminating the private areas of a property allows the evening enjoyment of decks, sitting areas, and recreational spaces.
- Beauty- Low voltage lighting accentuates the shapes and textures of a landscape and its structures. Lighting designers not only paint pictures with light, they create dramatic scenes that give the viewer a dynamic experience of the property.



# The Basic Requirements for a Successful Installation

For a landscape lighting system to operate optimally over an extended period of time, the following criteria must be met:

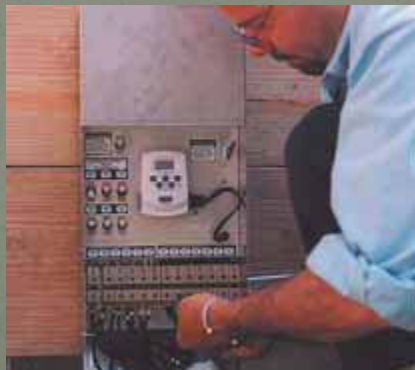
Each lamp must receive between 10.8 and 12.0 volts to maximize lamp life and light output.

Wire connections must be waterproof, secure and protected from corrosion.

Wire must be resistant to oxidation and corrosion.

The transformer must be resin sealed, circuit breaker protected, capable of extended periods of operation, and have limitless control options.

All system data, including fixture and splice locations, lamp wattage, and electrical measurements must be recorded to ensure proper maintenance of the system.



# Marine-Grade Wire Ideal for Buried Applications

Buried wire is at risk for physical damage during yard work and is subject to corrosion from ground water. CAST addresses these problems with No-Ox™ wire, a durable, tin-coated wire impervious to corrosion. This is the same wire used for saltwater marine applications.



# Trouble-Free Wire Connections

There are several wiring techniques commonly used by lighting installers. CAST trained contractors use only the CAST Spider Splice™ wiring technique. This involves running equal length wires from each fixture to Spider Splice junction points. These junctions protect connections from corrosion, deliver equal voltage to all fixtures, and facilitate ease of maintenance. They are sealed with a bronze cap and permanently stamped with important system information.



# Advanced Voltage Control to Extend Lamp Life

In a landscape lighting system, it is the transformer's job to deliver the right voltage (10.8 to 12 volts) to each fixture. This is not an easy task since voltage is lost through the wire and the amount of that loss depends on the number of fixtures and the length and gauge of the wire.

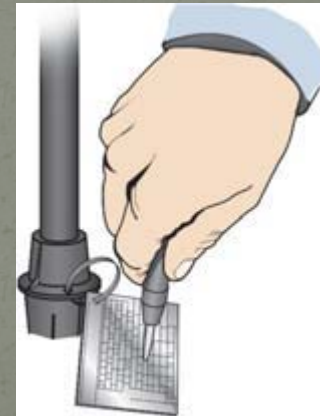
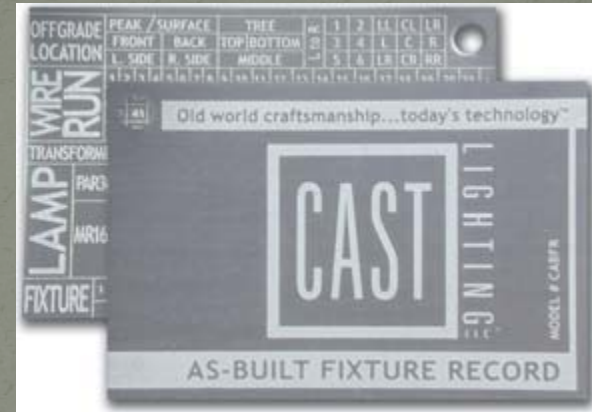
Contractors calculate this loss and connect each group of fixtures to the correct voltage tap at the transformer. CAST transformers have many features that give the contractor greater flexibility and control during the installation process. These transformers also have resin-sealed cores with a lifetime guarantee, and incorporate both primary and secondary magnetic circuit breaker protection.





# Patented Feature to Ensure Proper Long-Term Maintenance

CAST Landscape Lighting Systems are designed to last a lifetime. With that in mind, CAST incorporates a patented system of record keeping that allows contractors to record all vital system information at the job site. The corner stones of this system are the “As-Built Fixture Record Tags™”. These acid-etched stainless steel tags are attached to each fixture. Information such as wire run, lamp replacement information, and transformer number are permanently marked on these tags. This information allows contractors to easily service the system year after year without having to rely on design drawings that are easily lost or destroyed.



# Installation Wiring Method

**A wiring method to ensure even distribution of voltage and corrosion-proof wire connections.**

The installation phase of the system relies upon the following CAST product features: Solid bronze or copper fixtures prewired with

- \*tin-coated No-Ox<sup>®</sup> marine grade wire

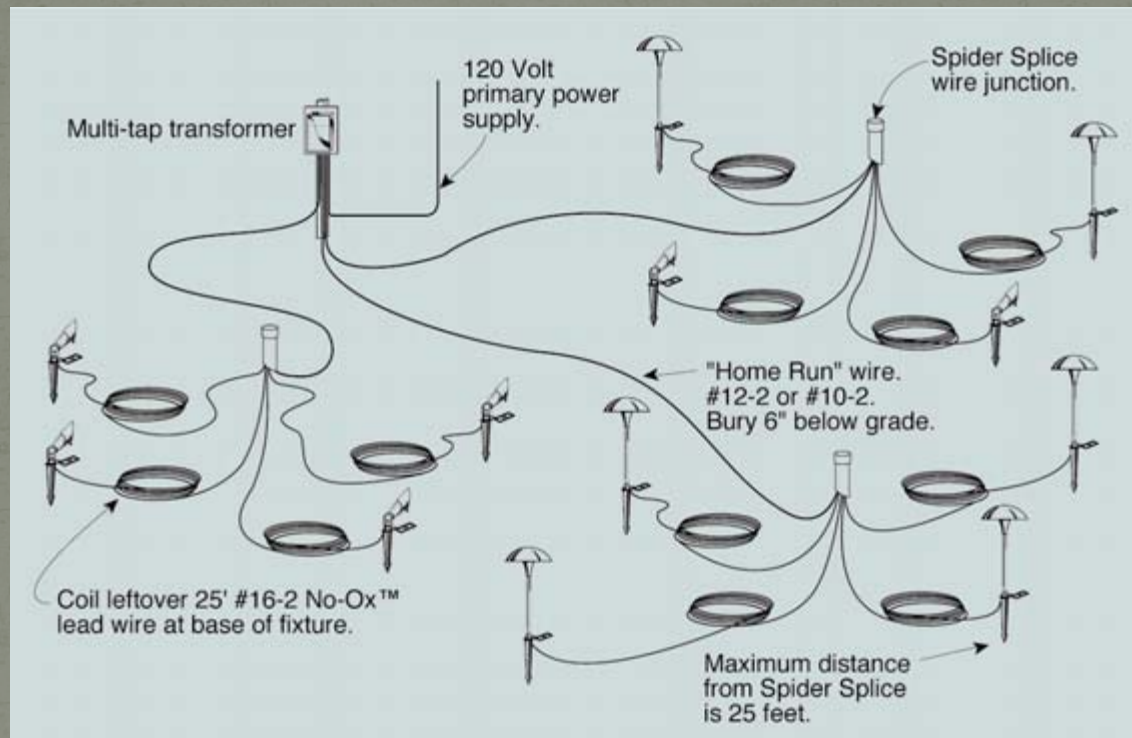
- \* Spider Splice<sup>®</sup> junctions

- \*No-Ox<sup>®</sup> home run wire

- \*Transformers designed for quick and secure connections

Using these products, the designer lays out the installation with Spider Splice<sup>®</sup> junctions positioned near fixture locations. Each junction accommodates up to 6 fixture wires. Since each fixture is pre-wired with a 25 ft. wire the distances from Spider Splices<sup>®</sup> to fixtures are equal and the voltage losses will be identical. This ensures all fixtures on a single Spider Splice<sup>®</sup> will receive the same voltage. The only splices in the field are in the protected Spider Splice<sup>®</sup> junctions.

# Installation Wiring Diagram



# Transformers

Master Series™ Capacities: 900W, 1200W, and 1500W

– Taps: 12v, 13v, 14v, 15v, 16v, 17v, 18v

Journeyman Series™ Capacities: 300W, 600W, and

900W – Taps: 12v, 13v, 14v, 15v

Power Pro Series™ Capacities: 900W and 1200W –

Taps: 12v, 13v, 14v, 15v, 16v, 17v, 18v, 20v, 22v

Export Series™ (220v, 240v, 50/60Hz) Capacities:

300W, 600W and 900W – Taps: 12v, 13v, 14v, 15v



Journeyman Series

Masters Series

Power Pro Series

Export Series

# Time Clock and Photocells Info

Most transformer manufacturers wire time clock and photocell outlets so the full load of the transformer passes through these sensitive components.

This can lead to early time clock or photocell failure. The risk is especially great with higher wattage transformers.

CAST transformers (900w and above) solve this problem by utilizing a power bypass relay. The powered relay sends only a tiny current to the photocell and timer. When one of these components cuts the power, it signals the relay to cut the primary power to the transformer.

# Cast Projects



# Cast Fixtures



CMU1CB  
CMU2CB



CCH1CB  
CCH2CB



CBAL1CB



CNO1CB



CSA1CB



CDL1CB



CNL1CB



CCTL1C



CBL1CB



CWLMR16  
CWLWFL  
CWLWFLEAD



CWW1CB

# More Pictures





# More Pictures



Old world craftsmanship . . . today's technology™

## LOW VOLTAGE LANDSCAPE LIGHTING



## FOR HOMES OF DISTINCTION

