

Application Photos - LED Fiber Optic



Stair Tread Edge Lighting



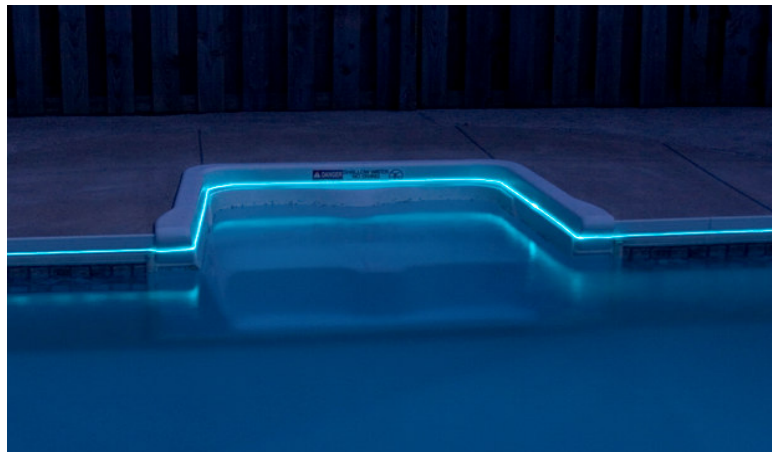
Lumicord - Rope and Fiber Optic



**Dock Lighting
Fiber Optic Cable and Track**



**Pool and Spa
Perimeter Lighting**



The Lighting Division



Life in a New Light

www.thelightingdivision.com

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The Lighting Division

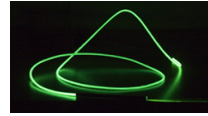


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Fiber Optic Lighting



Fiber Optic Cable



Light Case

Fiber Optic System Components			
Description	Part Number	Dimensions	Electrical
Light Case - 1 Watt LED	LCE-XX	6.25" Long x 3.00" Wide x 1.55" High	9 - 36 Volts AC or DC, 3.5 Watts
Light Case - 3 Watt LED**	LCE-3-XX	6.25" Long x 3.00" Wide x 1.55" High	9 - 36 Volts AC or DC, 6.5 Watts
Repeater Light Case -Dual 1 Watt LED	LCR-XX-XX	6.50" Long x 3.00" Wide x 1.55" High	9 - 36 Volts AC or DC, 6.5 Watts
Repeater Light Case -Dual 3 Watt LED**	LCR-3-XX-XX	6.50" Long x 3.00" Wide x 1.55" High	9 - 36 Volts AC or DC, 13 Watts
Fiber Optic Cable - 14 Strand	FOC	0.18" Diameter	
Fiber Optic Track	FOT	Configurable As Shown --->	
Shield Tube (block light)	FOS		

XX denotes color choices below

** Check with Factory to ensure color selection is available

Dimmer is included in each Light Case and Repeater

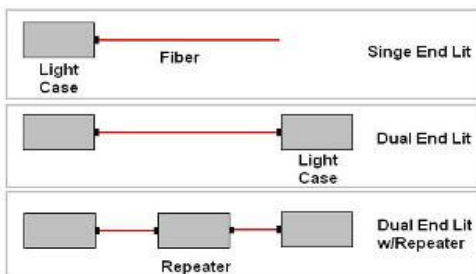
Repeater Light Case



Fiber Optic Colors:
DB Deep Blue 455nm
SB Sky Blue 470nm
TQ Turquoise 505nm
GG Great Green 525nm
DW Diamond White 5000K
AM Amber 590nm
TR Tropical Red 617nm
RR Real Red 625nm

Illumination Level and Distance will vary by color, with Blue going longer than Red. We suggest lighting both ends of the fiber when exceeding 100 feet.

Driving Options



Fiber Optic Kits

Part Number	Length	Fits Pool Diameter(s)
LK-25-XX	25 Feet	
LK-50-XX	50 Feet	15 Foot Round
LK-75-XX	75 Feet	18, 21 Foot Round
LK-100-XX	100 Feet	24, 27 Ft Round/Oval
LK-125-XX	125 Feet	
LK-150-XX	150 Feet	
LK-175-XX	175 Feet	
LK200-XX	200 Feet	

Light Kit Includes:
 - One (1) LCE
 - FOC per kit length
 - FOT per kit length
 - FOS (1 Foot)

Power Supplies

Model Number	Power
TLD-60WLO (Outdoor)	60 Watt

Inter-Connect and Options

Model Number	Description
TLD-OS	Universal Photocell Timer
TLD-EC25	Power Ext Cord - 25 foot
TLD-EC50	Power Ext Cord - 50 foot
TLD-EC100	Power Ext Cord - 100 foot
TLD-MT2	2-Way Power Splitter
TLD-MT4	4-Way Power Splitter
TLD-MT8	8-Way Power Splitter

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Lumacord Fiber Optic Rope Light



Lumacord

Lumacord Single Emitter Configuration

Lumacord Part Number Generator

LCD - AA - BB

AA: Left Hand Feed Length in Feet
 BB: Lumacord Length in Feet

Example: LCD-03-50 is 50 feet of Lumacord with a 3 foot Feed

Lumacord Dual Emitter Configuration

Lumacord Part Number Generator

LCD - AA - BB - CC

AA: Left Hand Feed Length in Feet
 BB: Lumacord Length in Feet
 CC: Right Hand Feed Length in Feet

Example: LCD-10-100-10 is 100 feet of Lumacord with 10 foot Feeds at both ends

LED Emitter Options

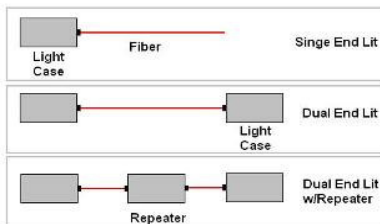
Description	Part Number	Dimensions	Electrical
Light Case	LCE-XX	6.25" Long x 3.00" Wide x 1.55" High	9 - 36 Volts AC or DC, 3.5 Watts
Light Case - 3 Watt LED**	LCE-3-XX	6.25" Long x 3.00" Wide x 1.55" High	9 - 36 Volts AC or DC, 6.5 Watts
Repeater Light Case	LCR-XX-XX	6.50" Long x 3.00" Wide x 1.55" High	9 - 36 Volts AC or DC, 6.5 Watts
Repeater Light Case -Dual 3 Watt LED**	LCR-3-XX-XX	6.50" Long x 3.00" Wide x 1.55" High	9 - 36 Volts AC or DC, 13 Watts

** Check with Factory to ensure color selection is available
 XX - Denotes LED Color (Repeater can be two different colors!)

LED Colors:
DB Deep Blue 455nm
SB Sky Blue 470nm
TQ Turquoise 505nm
GG Great Green 525nm
DW Diamond White 5000K
AM Amber 590nm
TR Tropical Red 617nm
RR Real Red 625nm

Dimmer is included in each Light Case and Repeater

Driving Options



Illumination Level and Distance will vary by color, with Blue going longer than Red. We suggest lighting both ends of the fiber when exceeding 100 feet.

TLD-OS can be placed anywhere in the system and will control all fixtures powered through it.

Power and Inter-Connect Options

Model Number	Description
TLD-60WLO (Outdoor)	60 Watt Power Supply
TLD-OS	Universal Photocell Timer
TLD-EC25	Power Ext Cord - 25 foot
TLD-EC50	Power Ext Cord - 50 foot
TLD-EC100	Power Ext Cord - 100 foot
TLD-MT2	2-Way Power Splitter
TLD-MT8	8-Way Power Splitter



Instructions for installation of the Fiber Optic Lighting Kit

The Fiber Optic Lighting Kit includes: FOT (Fiber Optic Track), FOC (Fiber Optic Cable), Light Case Emitter (LCE) with one grip or Light Case Repeater (LCR) with grips on each side of a case, Shield Tube (We supply 1 foot of Shield Tube with every Light Case order.)

Application: Highlighting the perimeter of the area you wish to light for both indoors and outdoors. The products of the Lighting Division are compliant with the electrical codes in the United States.

Use proper caution working with electrical products; it is the installer's responsibility to ensure proper safety precautions are taken during hazardous installation of our lighting products. The transformer must be plugged into a ground fault receptacle. Local building codes prohibit use of extension cords around water due to risk of shock. Do not submerge the Light Case into water.

The intensity of light coming out of the box is very strong. Therefore, to avoid the overpowering effect of light we suggest for you to use the Shield Tube supplied in your Fiber Optic Lighting Kit.

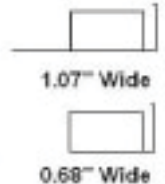
The first 6 inches of fiber coming from the light source and last six inches of fiber are the brightest and can be blackened if desired. In case you wish to avoid lighting in certain areas of your project. We offer Shield Tube for purchase in any length.

Working with a single Light Case Emitter (LCE)

Step 1. To determine the length of fiber and track, please measure the perimeter you wish to light.

Step 2. FOT installation.

Install the track along the area you wish to light. Cut the track with sharp scissors or razor cutters to fit where needed. Please leave 1 inch of space uncovered by track before every corner. See picture:

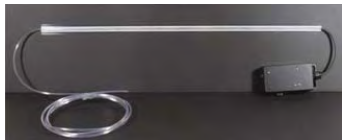


Our FOT is a flexible channel but it can be deformed if bent to 90 degrees or more. FOT is a channel for the fiber optic cable that can be used as a whole or modified by removing of wings if necessary for the narrow surfaces. The track comes with double-sided tape that helps to hold it temporarily. Remove the backing of the tape. In addition, for wet locations we recommend staple gun or Silicone Adhesive Sealant for outdoor use. Apply a small bead of silicone adhesive sealant along the length of the track. Press gently along the length of the track. **NOTE:** It is important to clean the surface you wish to attach to the track for proper adhesion. Gently wipe excess silicone adhesive sealant away for a clean look.

Step 3. FOC installation

Once the track installation is complete, you may now work with Fiber Optic Cable (FOC).

Do not cut excess fiber before installation. Place the fiber into the groove of the FOT and push it inside. The fiber should be fully embedded into the track channel. Repeat installation all along the path of the Fiber Optic Track (FOT). When going around the corners of the surface keep the fiber snug without stretching it. Once you complete the installation of your fiber, you can either leave the end of the fiber uncovered for an end emitting effect or cover the end of the fiber with the Shield Tube and wire tie provided. See picture.



Step 4. Connection of a Light Case Emitter to Fiber Optic Cable.

Cut off a quarter of an inch of fiber with clean razor cutters to ensure optimal light transition. Cover the end of the fiber with the Shield Tube (6 inches long) leaving 3/4" uncovered by the tubing. Insert the fiber optic cable inside the Light Case grip approximately 1 inch. There should not be a bare cable between the cord grip and Shield Tube. Tighten the cable grip snugly avoiding undue pressure.

Step 5. Plug in the chosen power supply that best suits your application (indoor or outdoor) and attach it to the Light Case.

Step 6. With the dimmable capabilities of the Light Case you can control light intensity for your lighting system.

Working with two LCE Light Cases working from each side of Fiber Optic Cable

Two Light Cases can be used for lighting projects of longer lengths or where higher intensity lighting is preferable. Please repeat steps 4 through 6 above when installing two Light Cases.

Working with LCR Light Case(s)

LCR Light Case Repeater possesses features of a Light Case Emitter with one additional LED in it. Driving light from dual ends has become possible with LCR Light Case. Process stages of connection FOC and LCR Light Case are identical to those with LCE Light Case. (Please see above).

Using accessories for the Fiber Optic Lighting Kit

Please keep the Light Cases and power supplies away from water. The Lighting Division offers Extension Cords of different lengths (TLD-EC25 - 25ft, TLD-EC50 - 50ft, TLD-EC100 - 100ft.) to ensure your safety and the long life of Light Cases(s).

Two-way power splitter will enable you to use two of your favorite light colors for two different applications of your choice.

Eight-way power splitter permits you to work with several Light Cases of different colors powering them from one power supply.

Such a set up allows you to simultaneously light several areas or support several accent lighting projects.

The Lighting Division provides a connecting cord with a grip to ensure perfect connection between Light Cases(s) and power splitters.

Universal Photocell Timer is a unique energy-saving component of the Fiber Optic Lighting System that automatically switches the kit off in the day-time, turning it back on when darkness comes.