

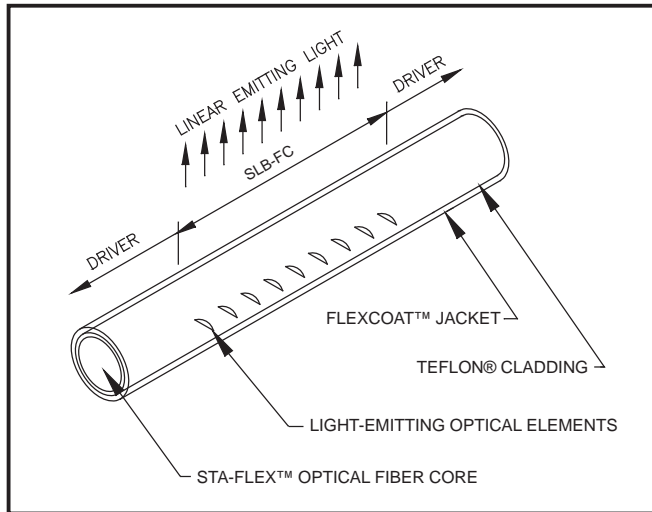
# STA-FLEX® SLB-FC OPAQUE WHITE LINEAR OPTICAL FIBER

Project:

Type:

Catalog Number: **SLB-FC**

System Component: **Optical Fiber**



- ◆ **STA-FLEX® Large Core**
- ◆ **Indoor/Outdoor Applications**
- ◆ **Compatible with LED, HID and Quartz Halogen Light Sources**
- ◆ **Clear, Flexible, Bondable Jacket**
- ◆ **UL94VO Fire Rated**
- ◆ **Opaque White Appearance**
- ◆ **Long Life Flexibility**

## SPECIFICATIONS:

Series Number  
 Operating Temperature Range  
 Spectral Transmission Range  
 Acceptance Angle  
 Refractive Index

SLB-FC  
 Up to 194° F (90° C)  
 350-800 nm  
 80°  
 Core: 1.48 or greater  
 Cladding: 1.34 or less

Numerical Aperture  
 Minimum Bend Radius

0.63  
 Physical Minimum: 6 x fiber outer diameter  
 Recommended: 12 x fiber outer diameter or larger

## Dimensions (Note: All dimensions are nominal)

Model Number	Core Diameter		Outer Diameter		-WR Outer Diameter		Mounting Track	
	in.	mm	in.	mm	in.	mm	in.	mm
SLB-FC201	.190"	4.8mm	.300"	7.6mm	.360"	9.3mm	.42"	10.7mm
SLB-FC301	.240"	6.1mm	.365"	9.3mm	.425"	10.8mm	.48"	12.2mm
SLB-FC401	.360"	9.1mm	.515"	13.1mm	.575"	14.6mm	.70"	17.8mm
SLB-FC501	.490"	12.4mm	.707"	17.8mm	.767"	19.5mm	.86"	21.8mm
SLB-FC701	.740"	18.8mm	.950"	24.1mm	1.015"	25.8mm	.98"	25.0mm

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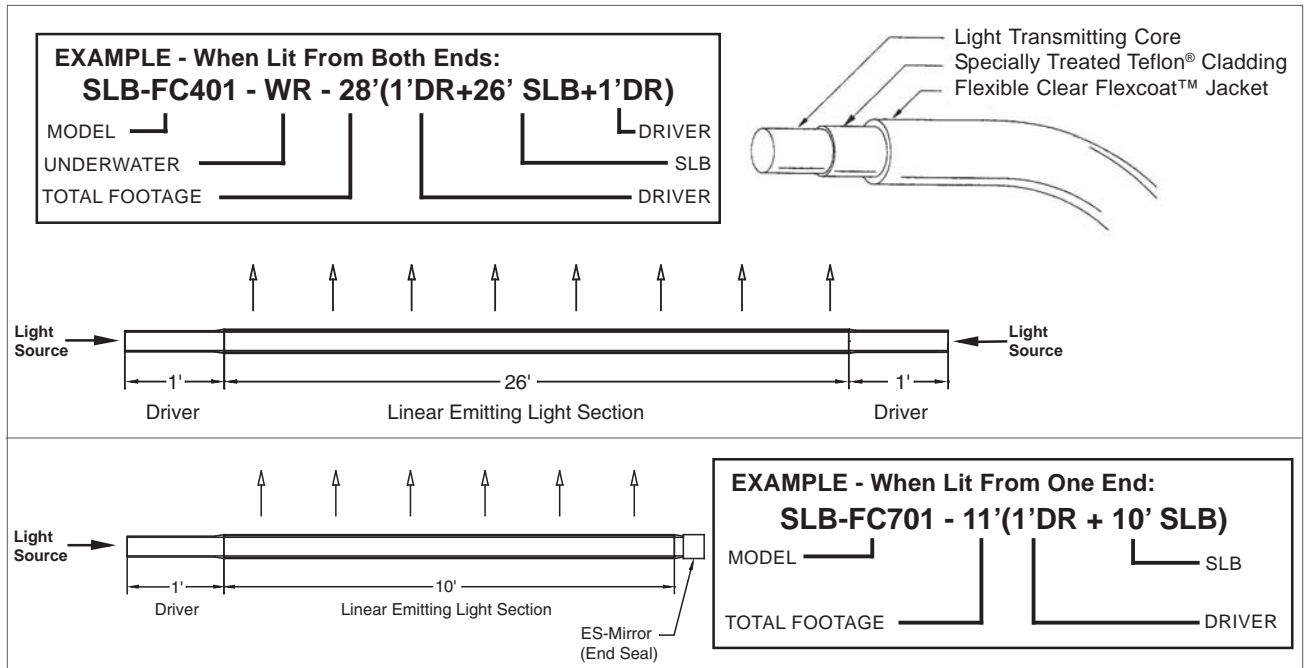
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# STA-FLEX® SLB-FC LINEAR OPTICAL FIBER

## Ordering Information

<b>MODEL #</b> SLB-FC201 SLB-FC301 SLB-FC401 SLB-FC501 SLB-FC701	<b>UNDERWATER</b>     -WR	<b>Total Footage</b> (Length in ft.)  _____ FT	<b>DRIVER</b> (Length in ft.) Single and Double ended fibers.  _____ FT	<b>SLB</b> (Length in ft.)  _____ FT	<b>DRIVER</b> (Length in ft.) Double ended fibers only.  _____ FT
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## Recommended Distances for Effective SLB-FC Brightness

- The effective light output of SLB-FC fiber optic is subjective and based upon several variables such as:
  - Intensity and type of light source
  - Background color contrast
  - Attenuation of light
  - Number and wattage of LEDs or lamps in the light source
  - Viewing angle
  - Ambient light level
  - Color of light
  - Length of fiber optic run

## Driver

- The SLB-FC Series of optical fibers is “driver dependent” and is supplied with a minimum 1’ (30.5cm) length of driver. The driver can be field cut as required. Driver lengths up to a recommended maximum of 3’ (91.4cm) have minimum impact on photometric performance on a **straight** run. LIC recommends a 6 x fiber diameter or greater bend radius in the driver. A second driver is required when fiber is lit from both ends.

## Mounting

- Use appropriate track size for mounting in straight-line applications.
- Tracking may be field cut into short segments and “clips” for mounting in curved applications.

## Environment

- Optical fiber core must be protected in wet or sunlit areas. Use end seals where applicable.
- Protect core and cladding from dirt and abrasions.
- Install fiber at temperatures of 10° C (50° F) or higher.
- Prior to installation, remove the optical fiber from the box in accordance with Lumenyte’s printed unpacking instruction sheet and lay fiber straight for several hours to remove coil memory.
- For underwater use, add -WR jacket.