



INNOVATIVE
LIGHTING



Fiber
Optics

Side Light
Fiber
Optic



BLFO-SL125
Nominal $\varnothing 1/8''$ [3mm]
Actual 0.180'' [4.59mm]



BLFO-SL250
Nominal $\varnothing 1/4''$ [6mm]
Actual 0.281'' [8.15mm]



BLFO-SL375
Nominal $\varnothing 3/8''$ [10mm]
Actual 0.451'' [11.45mm]

Product Specifications

Description

BLFO-SL Solid Core Side Light Optical Fiber is plastic (PMMA), allowing for radiant illumination along its length. It is resistant to heat, vibration and elongation. The FEP outer coating is resistant to fungi and algae growth, and most chemicals. It has superior anti-stick and low friction properties allowing installation into virtually any environment. BL Side Light Optical Fiber is suitable for indoor and outdoor applications with appropriate UV protection.

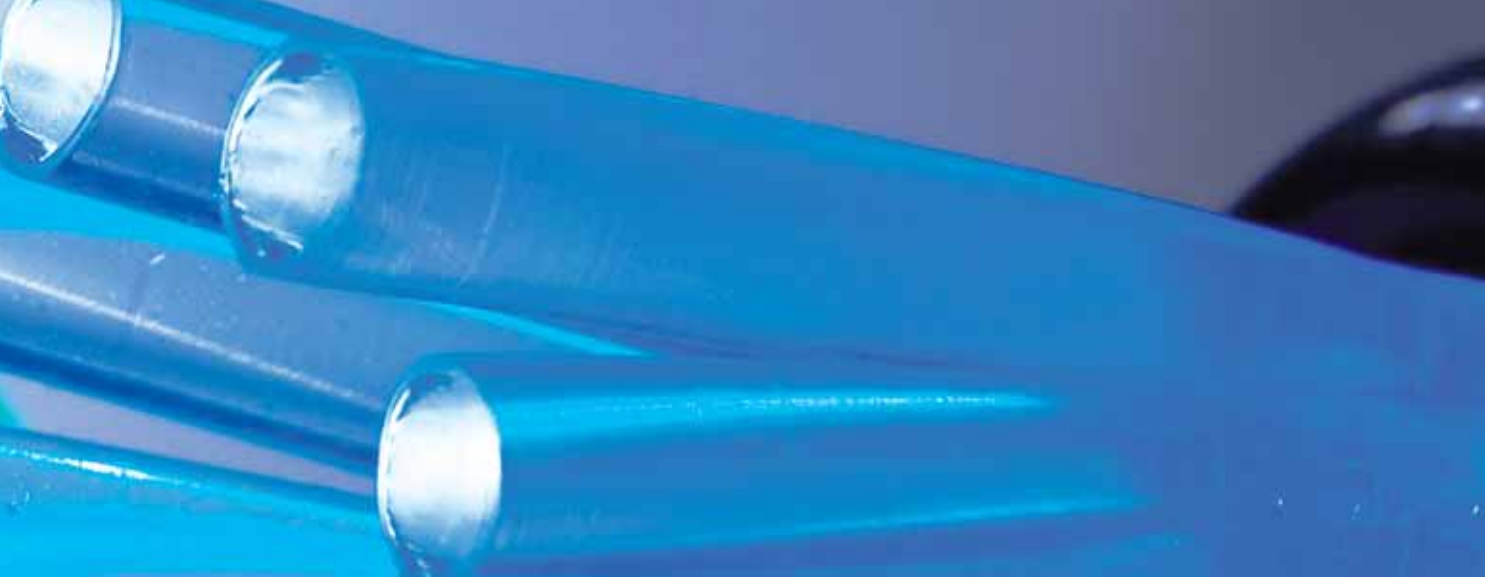
Custom Optical Fiber formulations are available.

Specification Guidelines

For outdoor installations, BLFO Optic Fiber requires UV protection.

Max run lengths depend on the illuminator being used.

Excessive bending will result in greater light loss.



BLFO-SL500
 Nominal $\text{\O}1/2''$ [13mm]
 Actual 0.611" [15.52mm]



BLFO-SL750
 Nominal $\text{\O}3/4''$ [19mm] Spool Size : 100ft max.
 Actual 0.856" [21.74mm] Custom Order Only

Mechanical

Spool Sizes:
 260ft [80m]

Expected Life:
 15 years

Max. Distances for Effective
 Illumination:

Side Light	70 ft
End Light	120 ft

Splicing:
 Splicing is not possible

Cutting:
 Cuttable at any length

See Installation Guidelines
 for details

Environmental

Operating Temperature:
 -40° - 200°C
 Min 10°C for install

Fire Rating:
 ANSI/UL 94 - V0

Resistance:
 Resistant to most chemicals
 Fungi/algae resistant

UV Stability:
 UV Sensitive

Requires UV protection

Transmission Properties

Output Angles:
 Minimum 40° half angle

Acceptance Angles:
 80°

Attenuation:
 0.24 dB/ft [0.8 dB/m]

Min. Bend Radius:
 8 times the diameter

Spectral Trans. Range:
 380 - 750nm [visible
 spectrum]

Numerical Aperture:
 0.65

