

TYPE:

JOB:

ORDERING CODE:

APPROVAL:

DATE:

SPECIFICATIONS

MECHANICAL CHARACTERISTICS

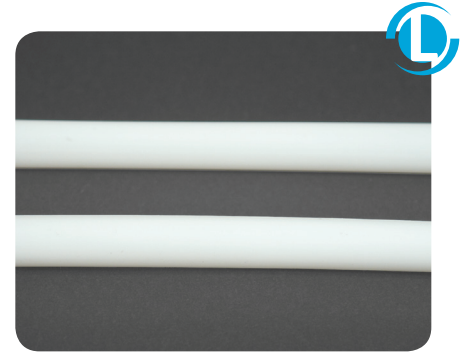
Composition: The solid, light transmitting core is made from optically clear acrylic polymer. The optical core is clad with a translucent FEP (Teflon)

Bend Radius: Minimum 10x the core diameter 4.70" (125mm)

Core Diameter: 0.47" (12.5mm)

Outer Diameter: 0.51" (13.5mm)

Max recommended Length: 30' single ended illumination
50' double ended illumination



OPTICAL CHARACTERISTICS

Spectral Range: Visible Wavelength Range 400-700nm

Glass Transition Temperature: 54C (129F)

Attenuation: 3-4% per foot - light loss is seen as light emitted from the side of the fiber

ENVIRONMENTAL CHARACTERISTICS

Thermal Stability: Core: up to 70C (158F)

Cladding: up to 350C (662 F)

Operating Temperature Range: Minimum: Delamination of core occurs between 5-10C - the effect is visual on the fiber however does not effect performance significantly
Maximum: 70C (158F)

Moisture Absorption: Core polymer will absorb water. Ends of the fiber must be sealed to avoid water.

Chemical Resistance: Teflon cladding is chemically resistant and impervious to solvents.
Core polymer is affected by liquids and strong solvents.

Storage: Dry location at temperatures within operating range

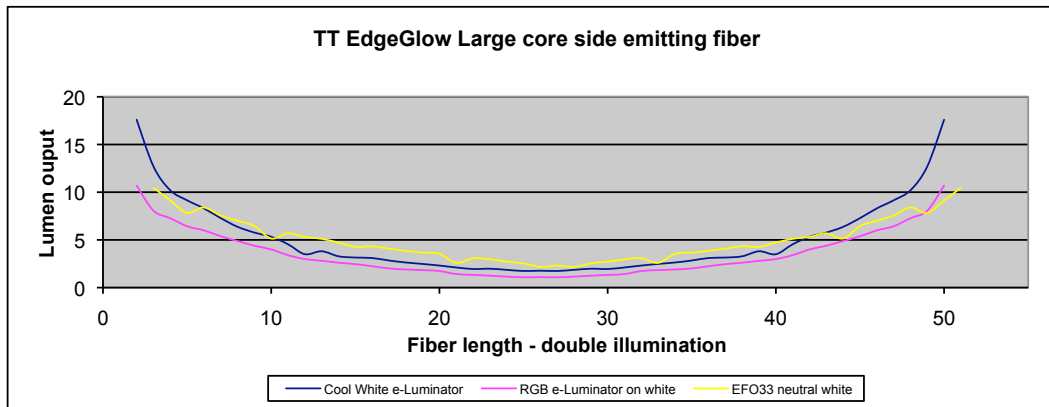
PORTING AND RECOMMENDED LENGTH

For use with LED e-Luminator order one (1) LEPORT-12LF for single ended illumination or two (2) for double ended illumination

For use with EFO33 unit order order one (1) 04-15161-00 for single ended illumination or two (2) for double ended illumination

EFOI recommends up to 30 FT for single illumination and up to 50 FT for double ended illumination.

For best results specify lengths exactly and fiber will be cut and ported at the factory



Product Name	Core Diameter		Outer Diameter		Min Bend Radius		Max Length ft	Outer Jacket	Illuminator use
	inches	mm	inches	mm	inches	mm			
EG-12-S-xx-EG-S-KIT	0.47	12.5	0.51	13.5	4.70	125	30	Opaque	EFO33, LED e-Luminator
EG-12-D-xx-EG-D-KIT	0.47	12.5	0.51	13.5	4.70	125	50	Opaque	EFO33, LED e-Luminator