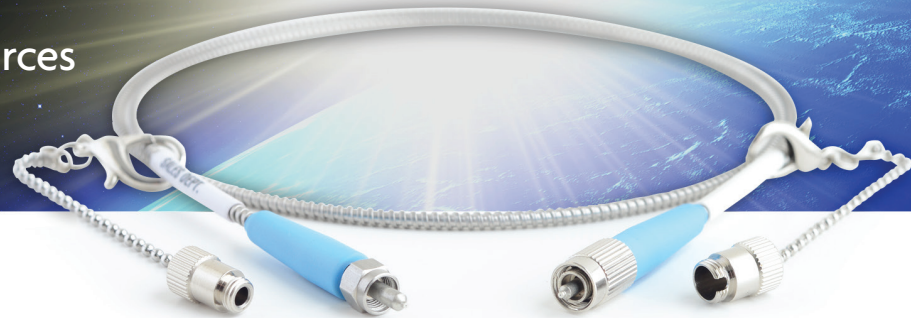


Fiber Optic Cable Assemblies

for LDLS™ Laser-Driven Light Sources



Energetiq Technology offers specially designed UV-Vis and Broadband fiberoptic cable assemblies for the Laser-Driven Light Source (LDLS™) products. These multi-mode, single-strand optical cables provide high transmission in the deep UV (190 nm) through the visible and into the NIR with resistance to UV degradation.

The premium grade UV-Vis solarization-resistant fibers are available in 115 μm, 230 μm, and 450 μm core diameter sizes. The Broadband fibers are available in 100 μm, 200 μm, 400 μm and 600 μm core diameter sizes. Both fibers feature a pure silica core and provide the highest transmission of any optical fiber material available.

The UV-Vis and Broadband fiberoptic cable assemblies have standard FC and SMA 905 connector designs which include Energetiq's proprietary Fiber Protection Technology™. This Fiber Protection Technology allows for better transmission and longer life of the fiber, to meet the demanding requirements of the high brightness LDLS products.

Features and Benefits

- High transmission from 190 nm – 2100 nm
- Solarization resistant
- 100 μm through 600 μm core sizes available
- 1 meter and 2 meter cable lengths available
- High damage threshold
- Combined with the EQ-99XFC and EQ-99FC, the cables provide a turn-key system for demanding, high brightness applications

Specifications

Connectors: FC and SMA 905 connectors with proprietary termination design

Type: Premium grade, solarization-resistant and broadband fiber optic cable assemblies

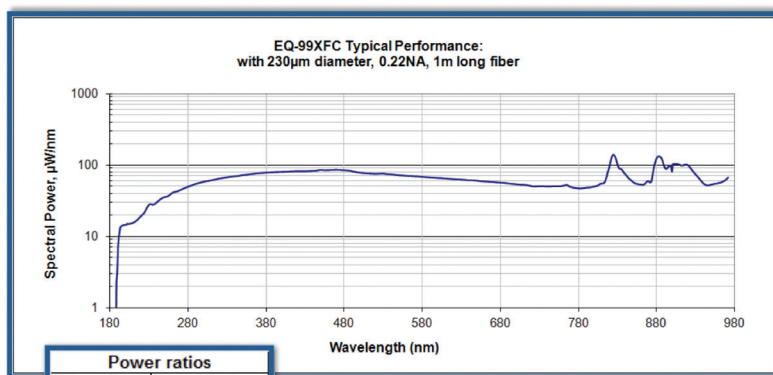
Fiber: Step-Index, Multimode

Wavelength Range: 190 nm – 2100 nm

Numerical Aperture: 0.22 ± 0.02

Assembly Jacket: Stainless steel armor with 3.25 mm outer diameter

Operating Temperature: -50°C to 80°C



Power ratios	
Fiber Size (μm)	Estimated Multiplier
115	0.3
230	1
450	2

EQ-99XFC Spectral Power with 230 μm Core UV-Vis Solarization-Resistant Fiber Cable Assembly

Standard Output Fibers For the EQ-99XFC

UV-Vis (190-900nm) Solarization-Resistant Fiber Optic Assembly	
Part Number	Description
UVFIBERX-115-1M-FC	FC to SMA – 115 μ m core diameter, 1 meter long
UVFIBERX-115-2M-FC	FC to SMA – 115 μ m core diameter, 2 meters long
UVFIBERX-230-1M-FC	FC to SMA – 230 μ m core diameter, 1 meter long
UVFIBERX-230-2M-FC	FC to SMA – 230 μ m core diameter, 2 meters long
UVFIBERX-455-1M-FC	FC to SMA – 455 μ m core diameter, 1 meter long
UVFIBERX-455-2M-FC	FC to SMA – 455 μ m core diameter, 2 meters long
UVFIBERX-115-1M-FC2	FC to FC – 115 μ m core diameter, 1 meter long
UVFIBERX-115-2M-FC2	FC to FC – 115 μ m core diameter, 2 meters long
UVFIBERX-230-1M-FC2	FC to FC – 230 μ m core diameter, 1 meter long
UVFIBERX-230-2M-FC2	FC to FC – 230 μ m core diameter, 2 meters long
UVFIBERX-455-1M-FC2	FC to FC – 455 μ m core diameter, 1 meter long
UVFIBERX-455-2M-FC2	FC to FC – 455 μ m core diameter, 2 meters long
Broadband (200-2100nm) Fiber Optic Assembly	
Part Number	Description
BBFIBERX-100-1M-FC	FC to SMA – 100 μ m core diameter, 1 meter long
BBFIBERX-100-2M-FC	FC to SMA – 100 μ m core diameter, 2 meters long
BBFIBERX-200-1M-FC	FC to SMA – 200 μ m core diameter, 1 meter long
BBFIBERX-200-2M-FC	FC to SMA – 200 μ m core diameter, 2 meters long
BBFIBERX-400-1M-FC	FC to SMA – 400 μ m core diameter, 1 meter long
BBFIBERX-400-2M-FC	FC to SMA – 400 μ m core diameter, 2 meters long
BBFIBERX-600-1M-FC	FC to SMA – 600 μ m core diameter, 1 meter long
BBFIBERX-600-2M-FC	FC to SMA – 600 μ m core diameter, 2 meters long
BBFIBERX-100-1M-FC2	FC to FC – 100 μ m core diameter, 1 meter long
BBFIBERX-100-2M-FC2	FC to FC – 100 μ m core diameter, 2 meters long
BBFIBERX-200-1M-FC2	FC to FC – 200 μ m core diameter, 1 meter long
BBFIBERX-200-2M-FC2	FC to FC – 200 μ m core diameter, 2 meters long
BBFIBERX-400-1M-FC2	FC to FC – 400 μ m core diameter, 1 meter long
BBFIBERX-400-2M-FC2	FC to FC – 400 μ m core diameter, 2 meters long
BBFIBERX-600-1M-FC2	FC to FC – 600 μ m core diameter, 1 meter long
BBFIBERX-600-2M-FC2	FC to FC – 600 μ m core diameter, 2 meters long

* For other fiber assembly configurations please contact Energetiq Technology.



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Specifications are subject
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