

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

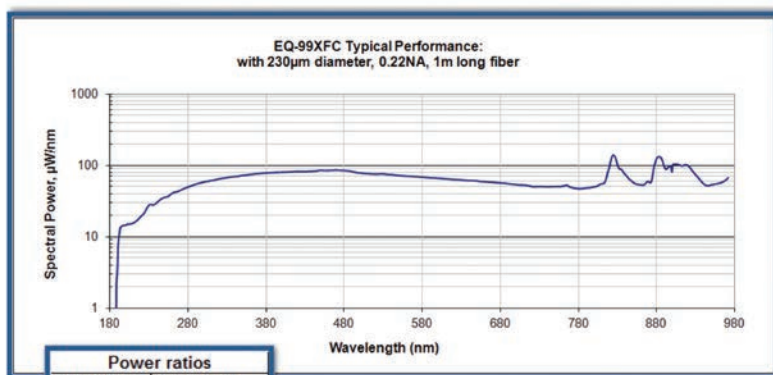
Fiber: Step-Index, Multimode

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



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 µm core diameter, 1 meter long
UVFIBERX-115-2M-FC	FC to SMA – 115 µm core diameter, 2 meters long
UVFIBERX-230-1M-FC	FC to SMA – 230 µm core diameter, 1 meter long
UVFIBERX-230-2M-FC	FC to SMA – 230 µm core diameter, 2 meters long
UVFIBERX-455-1M-FC	FC to SMA – 455 µm core diameter, 1 meter long
UVFIBERX-455-2M-FC	FC to SMA – 455 µm core diameter, 2 meters long
UVFIBERX-115-1M-FC2	FC to FC – 115 µm core diameter, 1 meter long
UVFIBERX-115-2M-FC2	FC to FC – 115 µm core diameter, 2 meters long
UVFIBERX-230-1M-FC2	FC to FC – 230 µm core diameter, 1 meter long
UVFIBERX-230-2M-FC2	FC to FC – 230 µm core diameter, 2 meters long
UVFIBERX-455-1M-FC2	FC to FC – 455 µm core diameter, 1 meter long
UVFIBERX-455-2M-FC2	FC to FC – 455 µm core diameter, 2 meters long
Broadband (200-2100nm) Fiber Optic Assembly	
Part Number	Description
BBFIBERX-100-1M-FC	FC to SMA – 100 µm core diameter, 1 meter long
BBFIBERX-100-2M-FC	FC to SMA – 100 µm core diameter, 2 meters long
BBFIBERX-200-1M-FC	FC to SMA – 200 µm core diameter, 1 meter long
BBFIBERX-200-2M-FC	FC to SMA – 200 µm core diameter, 2 meters long
BBFIBERX-400-1M-FC	FC to SMA – 400 µm core diameter, 1 meter long
BBFIBERX-400-2M-FC	FC to SMA – 400 µm core diameter, 2 meters long
BBFIBERX-600-1M-FC	FC to SMA – 600 µm core diameter, 1 meter long
BBFIBERX-600-2M-FC	FC to SMA – 600 µm core diameter, 2 meters long
BBFIBERX-100-1M-FC2	FC to FC – 100 µm core diameter, 1 meter long
BBFIBERX-100-2M-FC2	FC to FC – 100 µm core diameter, 2 meters long
BBFIBERX-200-1M-FC2	FC to FC – 200 µm core diameter, 1 meter long
BBFIBERX-200-2M-FC2	FC to FC – 200 µm core diameter, 2 meters long
BBFIBERX-400-1M-FC2	FC to FC – 400 µm core diameter, 1 meter long
BBFIBERX-400-2M-FC2	FC to FC – 400 µm core diameter, 2 meters long
BBFIBERX-600-1M-FC2	FC to FC – 600 µm core diameter, 1 meter long
BBFIBERX-600-2M-FC2	FC to FC – 600 µm 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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