

Fiber Optic Cable Assemblies



For use with EQ-99X-FC LDLS®

Our proprietary fiber optic cable assemblies must be used with the EQ-99X-FC LDLS. There are two types of fibers available: UV-Vis Solarization Resistant (UV) and Broadband (BB).

Both the UV and BB fibers transmit from 190 nm – 2500 nm. However, the UV fibers are constructed using silica with a high concentration of hydroxyl groups (OH) and are engineered to withstand ultraviolet solarization. The UV fibers are ideal for applications benefiting from enhanced radiance from 190 nm – 350 nm and the BB fibers are preferable for applications that benefit from enhanced radiance from 350 nm – 2500 nm.

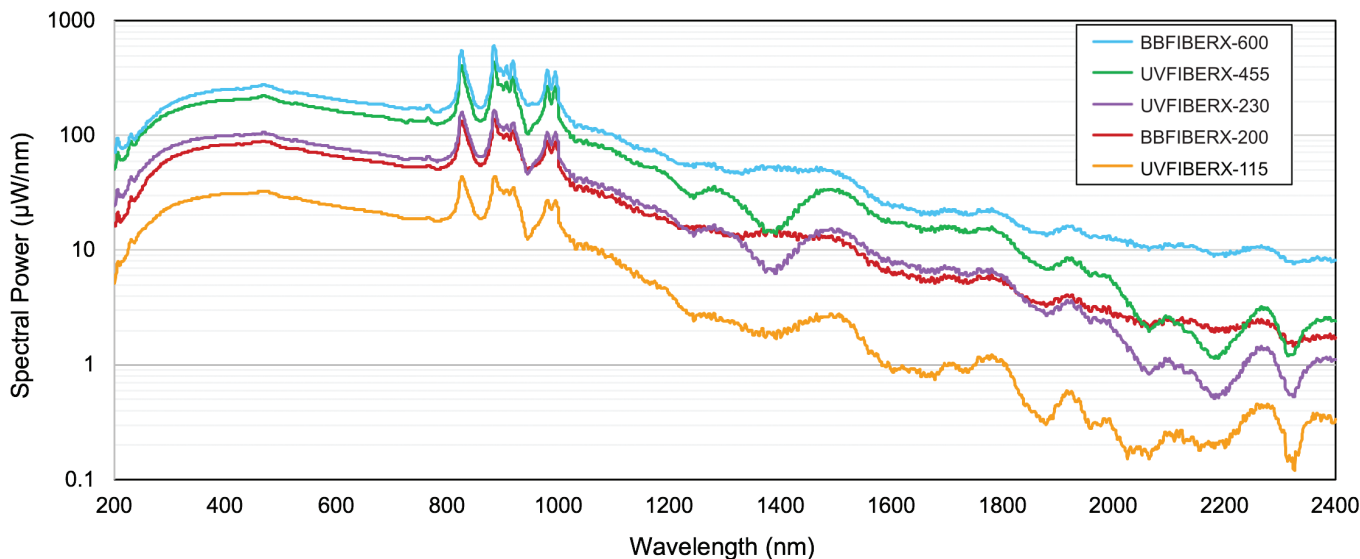
All fibers connect to the lamp head via FC connection and are available with either SMA or FC output termination. The user can select the termination for the output end of the fiber according to their application requirements.

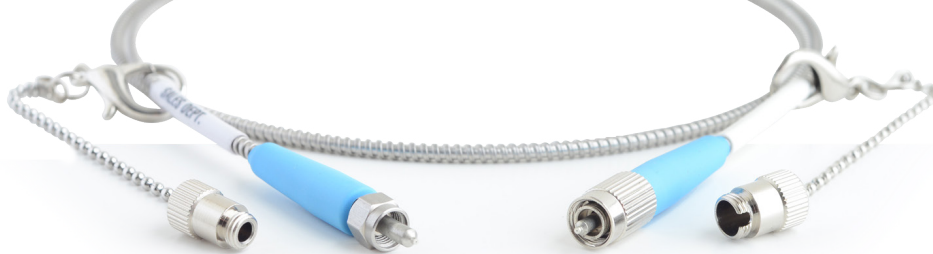
Properties

Compatible LDLS	EQ-99X-FC-S
Wavelength Range	190 nm – 2500 nm
Core Size	Refer next page for details
Cable Length	1 meter or 2 meter
Output Termination	FC/PC or SMA 905
Minimum Bend Radius	30 mm
Core Material	Silica
Length	1 meter or 2 meter
Type	Step-Index
Mode	Multimode
Numerical Aperture	0.22 NA
Jacket/Armor Material	Stainless Steel
Outer Diameter	3.25 mm
Lifetime	10,000 hours

EQ-99X-FC Broadband Optical Power (1 meter)

Our fibers transmit from 190 nm – 2500 nm. For applications that benefit from enhanced output from 190 nm – 350 nm, customers should select a UV fiber optic cable assembly. The UV fibers are made of high OH silica and are ideal for transmitting UV wavelengths with slow solarization/degradation. The UV type fiber exhibits characteristic dips in spectral power in the near-infrared range due to the OH absorption.





UV-VIS Solarization-Resistant Fiber Optic Assemblies

Ideal for applications benefiting from enhanced radiance from 190 nm – 350 nm

Part Number	Broadband Optical Power	Core Size	Length	Termination
UVFIBERX-115-1M-FC-SMA	~30 mW	115 µm	1 meter	SMA
UVFIBERX-115-2M-FC-SMA	~30 mW	115 µm	2 meter	SMA
UVFIBERX-230-1M-FC-SMA	~95 mW	230 µm	1 meter	SMA
UVFIBERX-230-2M-FC-SMA	~95 mW	230 µm	2 meter	SMA
UVFIBERX-455-1M-FC-SMA	~195 mW	455 µm	1 meter	SMA
UVFIBERX-455-2M-FC-SMA	~195 mW	455 µm	2 meter	SMA
UVFIBERX-115-1M-FC-FC	~ 30 mW	115 µm	1 meter	FC
UVFIBERX-115-2M-FC-FC	~ 30 mW	115 µm	2 meter	FC
UVFIBERX-230-1M-FC-FC	~ 95 mW	230 µm	1 meter	FC
UVFIBERX-230-2M-FC-FC	~ 95 mW	230 µm	2 meter	FC
UVFIBERX-455-1M-FC-FC	~ 195 mW	455 µm	1 meter	FC
UVFIBERX-455-2M-FC-FC	~ 195 mW	455 µm	2 meter	FC

Broadband Fiber Optic Assemblies

Ideal for applications that benefit from enhanced radiance from 350 nm – 2500 nm

Part Number	Broadband Optical Power	Core Size	Length	Termination
BBFIBERX-100-1M-FC-SMA	~25 mW	100 µm	1 meter	SMA
BBFIBERX-100-2M-FC-SMA	~25 mW	100 µm	2 meter	SMA
BBFIBERX-200-1M-FC-SMA	~80 mW	200 µm	1 meter	SMA
BBFIBERX-200-2M-FC-SMA	~80 mW	200 µm	2 meter	SMA
BBFIBERX-400-1M-FC-SMA	~180 mW	400 µm	1 meter	SMA
BBFIBERX-400-2M-FC-SMA	~180 mW	400 µm	2 meter	SMA
BBFIBERX-600-1M-FC-SMA	~ 215 mW	600 µm	1 meter	SMA
BBFIBERX-600-2M-FC-SMA	~ 215 mW	600 µm	2 meter	SMA
BBFIBERX-100-1M-FC-FC	~ 25 mW	100 µm	1 meter	FC
BBFIBERX-100-2M-FC-FC	~ 25 mW	100 µm	2 meter	FC
BBFIBERX-200-1M-FC-FC	~ 80 mW	200 µm	1 meter	FC
BBFIBERX-200-2M-FC-FC	~ 80 mW	200 µm	2 meter	FC
BBFIBERX-400-1M-FC-FC	~ 180 mW	400 µm	1 meter	FC
BBFIBERX-400-2M-FC-FC	~ 180 mW	400 µm	2 meter	FC
BBFIBERX-600-1M-FC-FC	~ 215 mW	600 µm	1 meter	FC
BBFIBERX-600-2M-FC-FC	~ 215 mW	600 µm	2 meter	FC

Accessories

Part Number	Description
EQ-99-COL-6-SMA	Fiber Collimator with SMA termination - 6.6 mm diameter beam
EQ-99-COL-6-FC	Fiber Collimator with FC termination - 6.6 mm diameter beam
EQ-99-COL-11-SMA	Fiber Collimator with SMA termination - 11 mm diameter beam
EQ-99-COL-11-FC	Fiber Collimator with FC termination - 11 mm diameter beam