FLG Series Optical Fibers and Fiber Bundles, 200–2400 nm, SMA905, NA 0.22

Model FLG Series · waveqvanta.com/products/flg-series-optical-fibers-and-fiber-bundles



Quartz fibers and 19-fiber bundles for coupling light into monochromators and sample chambers.

FLG series fibers and fiber bundles connect light sources, samples and detectors to Omni-λ series monochromators and sample chambers through BFC series fiber couplers, making it simple to assemble an optical system. Single fibers come in UV (200–1100 nm) and IR (350–2000 nm) versions with 50–600 µm core diameters; bundles combine 19 fibers of 200 µm with round or SMA905 ends. The x in each model number denotes the fiber length.

Key features

- Single quartz fibers with 50, 100, 200, 400 or 600 µm diameter
- UV version for 200–1100 nm and IR version for 350–2000 nm
- Fiber bundles of 19 × 200 µm fibers covering 200–1100 nm up to 400–2400 nm
- Bundle input ends of Ø13 mm, Ø10 mm or SMA905; output end SMA905
- NA 0.22, 25° full divergence angle
- SMA905 connectors as standard; FC or other connectors optional
- Accessories: 74-UV fiber collimator and TLS-SMA905-GJ fiber focusing accessory

Specifications

Fiber Material	Quartz
Numerical Aperture	0.22
Divergence (Full Angle)	25°
Standard Connector	SMA905 (FC or other connectors optional)
Length	Specified by x in the model number
Coupling to Monochromators	Via BFC series fiber couplers
74-UV Collimator Lens	UV fused silica, 5 mm diameter
74-UV Fiber Interface	SMA905
TLS-SMA905-GJ Lens	UV fused silica
TLS-SMA905-GJ Fiber Interface	SMA905
TLS-SMA905-GJ Focus Spot Size	2 mm

Model overview

Model	Type	Spectral Range (nm)	Fiber Diameter (µm)	Number of Fibers	A End	B End
FLG-UV50-x	Fiber	200–1100	50	Single	SMA905	SMA905
FLG-UV100-x	Fiber	200–1100	100	Single	SMA905	SMA905
FLG-UV200-x	Fiber	200–1100	200	Single	SMA905	SMA905
FLG-UV400-x	Fiber	200–1100	400	Single	SMA905	SMA905
FLG-UV600-x	Fiber	200–1100	600	Single	SMA905	SMA905

Model	Type	Spectral Range (nm)	Fiber Diameter (µm)	Number of Fibers	A End	B End
FLG-IR50-x	Fiber	350–2000	50	Single	SMA905	SMA905
FLG-IR100-x	Fiber	350–2000	100	Single	SMA905	SMA905
FLG-IR200-x	Fiber	350–2000	200	Single	SMA905	SMA905
FLG-IR400-x	Fiber	350–2000	400	Single	SMA905	SMA905
FLG-IR600-x	Fiber	350–2000	600	Single	SMA905	SMA905
FLG-401-x	Bundle	200–1100	200	19	Ø13 mm	SMA905
FLG-402-x	Bundle	400–2400	200	19	Ø13 mm	SMA905
FLG-403-x	Bundle	400–1800	200	19	Ø13 mm	SMA905
FLG-404-x	Bundle	200–1100	200	19	SMA905	SMA905
FLG-405-x	Bundle	400–2400	200	19	SMA905	SMA905
FLG-406-x	Bundle	400–1800	200	19	SMA905	SMA905
FLG-407-x	Bundle	200–2000	200	19	Ø10 mm	SMA905
FLG-408-x	Bundle	400–2400	200	19	Ø10 mm	SMA905
FLG-409-x	Bundle	400–1800	200	19	Ø10 mm	SMA905

Typical applications

- Fiber coupling of light sources to monochromators
- Collecting light from samples into spectrometers
- Remote and flexible spectral measurements
- Building modular spectroscopy setups with sample chambers