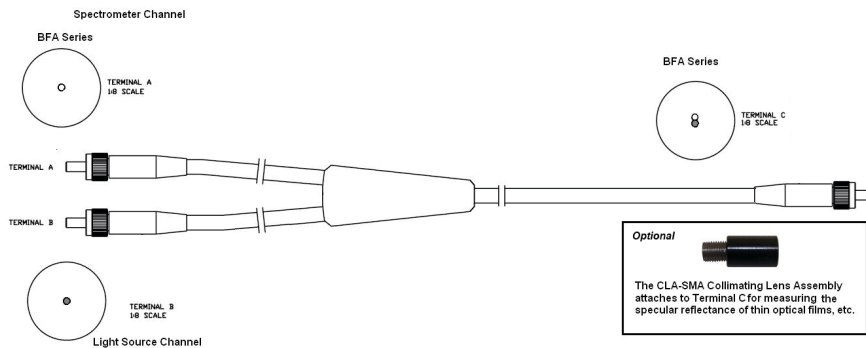


BFA Bifurcated Fiber Assembly

A bifurcated fiber assembly combines optical fibers at a common end with the fiber bundle bifurcated into 2 separate channels for connection to a light source and a spectrometer.

A bifurcated fiber assembly can measure the specular reflectance from surfaces like thin optical films. An optional collimating lens can be attached to the common end of the assembly. When positioned at a line-of-sight that is normal to the surface under test, it measures specular reflectance for 0° angle of incidence.



Applications:

- Reflectance

All bifurcated fiber assemblies feature standard SMA905 connectors. Assemblies are available with UV or NIR grade fused silica optical fibers with fiber core diameters of either 200µm or 400µm.

The BFA bifurcated fiber assemblies feature single core fibers in the split terminals which are combined at the common terminal.

Ordering Information:

Model Number	Fiber Type	Core Diameter (mm)
BFA-200-0.22-1.5-UV	UV Grade (High -OH)	200 ± 4
BFA-200-0.22-1.5-NIR	NIR Grade (Low -OH)	200 ± 4
BFA-400-0.22-1.5-UV	UV Grade (High -OH)	400 ± 8
BFA-400-0.22-1.5-NIR	NIR Grade (Low -OH)	400 ± 8

Specifications:

UV Grade Spectral Range	190nm - 1100nm
NIR Grade Spectral Range	380nm - 2200nm
Core Material	Silica
Cladding Material	Doped Silica
Buffer Material	Polyimide
Jacket Material	PVC
Connectors	SMA905
Concentricity	± 3µm
Numerical Aperture (NA)	0.22 ± 0.02
Acceptance Cone (Full Angle)	25.4°
Overall Length	1.5m
Operating Temperature	Up to +80°C (176°F)