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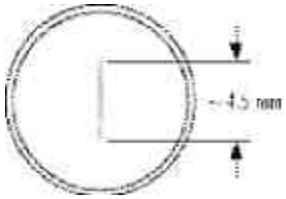
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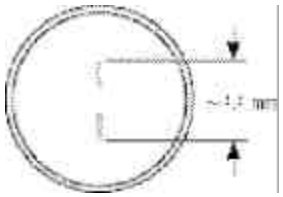
Fiberoptic Bundles

Roper Scientific/Acton Research offers several different fiberoptic bundles designed specifically for use with SpectraPro monochromators and spectrographs. Standard bundles come with 200-µm-diameter fibers in either silica for UV-VIS, or anhydrous silica for VIS-NIR applications. Fibers are arranged as a slit pattern (in a 10-mm-diameter ferrule) on the spectrograph end, with a round configuration (in SMA 905 connectors) on the source end.



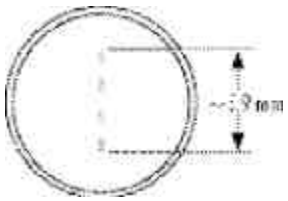
Single-Leg Fiber Bundles

Models LG-455-020 and LG-456-020 are bundles that contain a single column of 19 fibers, each 200 µm in diameter (~245-µm diameter with cladding), to match a SpectraPro entrance slit. LG-455-020 models are UV-VIS fiberoptic bundles in 1- or 3-m lengths for 190 to 1100 nm. LG-456-020 models are VIS-NIR bundles in 1- or 3-m lengths for 400 to 2200 nm.



Two-Leg Fiber Bundle

Model BFB-455-7 is a 1-m-long UV-VIS fiberoptic bundle for 190 to 1100 nm. It contains two groups of 200-µm-diameter fibers (~245-µm diameter with cladding), with seven fibers per group and ~1-mm spacing between groups.



Four-Leg Fiber Bundle

Model QFB-455-3 is a 1-m long UV-VIS fiberoptic bundle for 190 to 1100 nm. It contains four groups of 200-µm-diameter fibers (~245-µm diameter with cladding), with three fibers per group and ~1-mm spacing between groups.

Fiber Adapters

Several adapters are also available for fiberoptic bundles:

Ⓐ Fixed-Position Fiber Adapter

Model FC-446-010 positions fiberoptic bundles directly at the entrance (or exit) ports of SpectraPro monochromators and spectrographs. Designed to hold 10-mm-diameter fiber ferrules, the FC-446-010 is intended to be a simple, low-cost method of mounting fibers.

Ⓑ Adjustable Fiber Adapter

Model FC-466-020 holds 10-mm-diameter fiber bundles directly at the entrance slit of SpectraPro spectrographs and monochromators. It includes a spring-loaded slide mechanism for precise horizontal alignment of the fibers to the slit opening. Thumb screws on each side control horizontal adjustments.

Ⓒ Imaging Fiber Adapter

Model FC-446-030 is an imaging adapter for fiber bundles designed specifically for our imaging spectrographs and monochromators. The all-reflective design eliminates chromatic aberrations and the aspheric mirror cancels astigmatism, allowing precise imaging of fibers at the spectrograph entrance slit. The FC-446-030 includes up-down/right-left fiber-image adjustments to exactly match the fiber images to the entrance slit and detector for optimum throughput. There is also a 19-mm-thick removable spacer to allow use with filter wheels or other accessories.







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