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Fixed Focus Collimation Packages: FC/APC Connectors

- Mates with FC/APC Connectors
- Simplifies Collimation of Output from Single Mode Fiber
- Collimated Beam Diameters Ranging from 0.63 mm to 4.05 mm
- Models Aligned at 13 Key Wavelengths from 405 nm to 4.55 µm



Fixed Focus Collimators Contain One Factory-Aligned Aspheric Lens



F240APC-A
543 nm, Focal Length: 7.86 mm
Shown with Patch Cable



Back

Front

F220APC-1064
1064 nm, Focal Length: 11.17 mm

Related Items

Collimation



Triplet Fiber Collimator Packages



Fiber Patch Cables



Zoom Fiber Collimators



Overview | AR Coating Plots | Divergence Plots | Beam Diameter Plots | Calculations | Insights | Collimator Guide | Feedback

Features

- Fiber Collimators with FC/APC Connectors (2.2 mm Wide Key) for Single Mode Patch Cables
- Aligned at Wavelengths from 405 nm to 4.55 µm (See Table to the Right)
- Collimated Beam Diameters from 0.63 mm to 4.05 mm Depending on Wavelength
- Each Collimation Package is Factory Aligned
- Simplifies Fiber-Coupled Detection Systems
- Non-Magnetic Stainless Steel Housing
- Compatible with Narrow and Wide Key FC/APC Connectors
- Custom Options, Including Custom Alignment Wavelengths, Available by Contacting Tech Support

These fiber collimation packages are pre-aligned to collimate light from an FC/APC-terminated fiber with diffraction-limited performance. Because these fiber collimators have no movable parts, they are compact and easy to integrate into an existing setup. Due to chromatic aberration, the effective focal length (EFL) of the aspheric lens is wavelength dependent. The design wavelength indicates the wavelength of ideal beam divergence (see the Divergence Plots and Calculations tabs for more information). Collimation packages at select design wavelengths are available with different collimated beam diameters. Select a wavelength from the quick links table to the right for details.



Click for Details
KAD11F Kinematic Tip/Tilt Adapter Used to Mount a Fiber Collimator in an LM1XY Translation Mount

Fixed Focus Collimation Packages
SMA905
FC/PC
FC/APC

The aspheric lens is factory aligned for collimation at the design wavelength when connected to its specified single mode fiber patch cable. In addition, the aspheric lens has an AR coating on both sides that minimizes surface reflections (see the AR Coating Plots tab). For some applications they may also be used at other wavelengths within the AR coating range; please refer to the theoretical divergence plot for each collimator to determine if it is appropriate for your application. The operating temperature range for these collimators is -40 °C to 93 °C. Please note that these collimation packages are not vacuum compatible. Collimation packages with custom alignment wavelengths, operating temperature ranges, or vacuum compatibility are available by contacting Tech Support.

These fiber collimators are intended for use with single mode fiber patch cables. For improved performance, we recommend using these collimators with our AR-coated single mode fiber optic patch cables. These cables feature an antireflective coating on one fiber end for increased transmission and improved return loss at the fiber-to-free-space interface. Please note performance specifications are guaranteed only when used with single mode fiber.

To mount these fiber collimation packages, we recommend using our collimator mounting adapters, including our kinematic collimator mounting adapters that provide pitch and yaw adjustment. In addition to Ø1/2" and Ø1" unthreaded versions, options are available with external SM05 (0.535"-40), RMS (0.800"-36), or SM1 (1.035"-40) threading. The collimation packages with external M12 x 0.5 threading can be mounted directly into our cage plate CP1M12(/M) to be integrated into our 30 mm cage systems.

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