

Motion Control

Single Axis Stages

Multi-Axis Stages

Flexure Stage Accessories

Motorized Mirror Mounts

Rotation Stages

Drive Electronics & Auto-Alignment

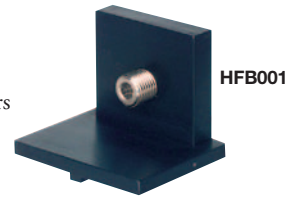
Actuators & Adjusters

Brief Tutorials

Connectorized Fiber Optic Cable Holders

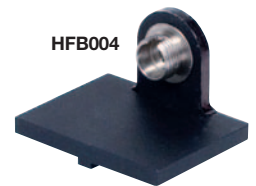


The SMA connectorized fiber holder HFB001 can be used to secure multimode fiber cables to our family of flexure-based nanopositioners and accessories. The SMA style connector is almost exclusively used for multimode optical fibers.



The ST® connectorized fiber holder HFB002 can be used to secure fiber cables with industry-standard ST® connectors to the mounting platforms of nanopositioners and brackets. The ST® style connector is most often used for industrial or medical applications that include single mode optical fibers.

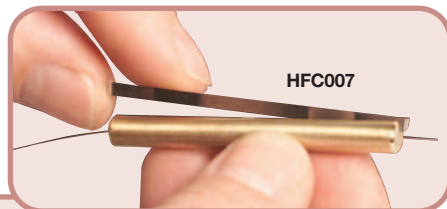
The FC connectorized fiber holder HFB004 is a new design that improves positional repeatability of the fiber through increased constraint of the fiber optic ferrule. It enables industry standard FC/PC connectors to be secured to the mounting platforms of our multi-axis stages. The center of the connector is positioned 12.5mm (0.5") above the platform to provide the appropriate optical axis height.



| ITEM# | METRIC ITEM # | \$ | £ | € | RMB | DESCRIPTION |
|--------|---------------|----------|---------|---------|----------|-----------------------------|
| HFB001 | HFB001* | \$ 91.80 | £ 57.80 | € 85,40 | ¥ 876.70 | SMA Fiber Optic Cable Mount |
| HFB002 | HFB002* | \$ 91.80 | £ 57.80 | € 85,40 | ¥ 876.70 | ST Fiber Optic Cable Mount |
| HFB004 | HFB004* | \$ 45.00 | £ 28.40 | € 41,90 | ¥ 429.80 | FC Fiber Optic Cable Mount |

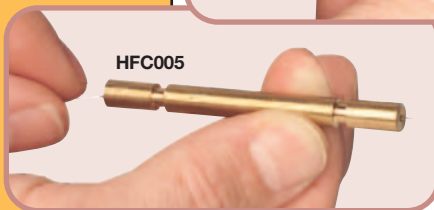
*Both the Imperial and Metric Models are Equivalent

Classic 1/4" Fiber Chucks & Mounting Block



Side-Loading Fiber Chuck

The HFC007 industry-standard fiber chuck allows the fiber to be loaded from the side, making it possible to strip and cleave the fiber prior to loading. This chuck is designed to accept 250µm fibers and secures the fiber in place with a spring clip that slips into place as shown in the photograph to the left. The dimensions of the chuck are 60mm (2.36") in length and 6.35mm (0.25") in diameter.



Back-Loading, Collet-Style Fiber Chuck

This traditional fiber chuck uses a collet mechanism to secure the fiber in place. The popular design, requires that the fiber be fed through the length of the chuck. Therefore, the fiber needs to be fed through the holder prior to being cleaved, in order to prevent the end face of the fiber from being damaged. The HFC005 has the same industry-standard dimensions as the HFC007 [i.e. 6.35mm (0.25") diameter and 60mm (2.36") long].



Fiber Chuck Mounting Block

The HFG001 mounting block is designed to accept the industry standard fiber chucks. The double bore ensures that two lines of contact are maintained along the length of the 1/4" diameter chuck. A nylon-tipped setscrew is used to apply the pressure required to hold the fiber chuck firmly in place. While these 1/4" diameter fiber chucks were popular a number of years ago, Thorlabs strongly recommends that users consider using one of the newer designs that utilize either a clamping arm or two magnetic caps to hold the fiber in place.



Mounting Block Shown With the Collet Style Fiber Chuck.

| ITEM# | METRIC ITEM # | \$ | £ | € | RMB | DESCRIPTION |
|--------|---------------|-----------|---------|----------|------------|---|
| HFC005 | HFC005* | \$ 137.70 | £ 86.80 | € 128,10 | ¥ 1,315.00 | Classic 1/4" Diameter Fiber Chuck With Collet Clamp |
| HFC007 | HFC007* | \$ 76.50 | £ 48.20 | € 71,10 | ¥ 730.60 | Classic 1/4" Diameter Fiber Chuck With Side-Loading Fiber |
| HFG001 | HFG001* | \$ 71.40 | £ 45.00 | € 66,40 | ¥ 681.90 | Mounting Block for Classic 1/4" Fiber Chucks |

*Both the Imperial and Metric Models are Equivalent