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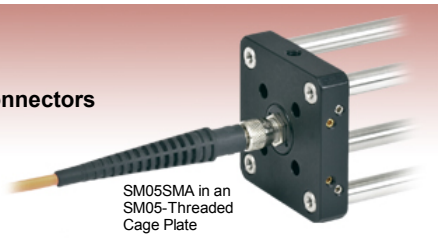
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Terminated Fiber Adapters

- Compatible with Lens Tubes, Optical Posts, Standard C-Mounts, or OEM Components
- Options for FC/PC, FC/APC, SMA, ST®/PC, SC/PC, and LC®/PC Connectors
- SM1-Threaded and Post Mounting Options for Ø2.5 mm Ferrules


SM05SMA in an SM05-Threaded Cage Plate


SM1FC
FC/PC Adapter


SM05SMA
SMA Adapter


S1FCA
FC/APC Adapter


PM20-ST
ST/PC Adapter


SM1FCM
Ø2.5 mm Ferrule Adapter


FCM
Ø2.5 mm Ferrule Clamp


S120-SC
SC/PC Adapter

Related Items









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Threaded & Unthreaded Adapters
Thorlabs offers various types of fiber connector adapters, which allow the most common types of connectorized fibers to be integrated with SM-threaded, C-Mount-threaded, or unthreaded components. Adapters for patch cables with FC/PC, FC/APC, SMA, ST®/PC, SC/PC, or LC®/PC connectors are available; for Ø2.5 mm ferrules we also offer an externally SM1-threaded (1.035"-40) ferrule adapter. If the threading and connector combination you need is not shown below, please contact tech support. Our complete line of thread adapters can also be used to convert between threadings.

These adapters are commonly employed when building single mode or multimode fiber couplers and collimators or in other free-space coupling applications. They can also be utilized to provide light-tight coupling to our SM05- (0.535"-40) or SM1- (1.035"-40) threaded photodetectors and many of our power meter sensors. Our C-Mount-threaded fiber adapters are useful for connecting patch cables to our C-Mount cameras.

Bulkhead Adapters
Thorlabs' FC/PC and SMA Bulkhead Adapters contain one connector for the projection of light into free space. Their compact size, one-piece construction, and mounting thread make them ideal for OEM or custom aplications. The design aligns the front face of the connector ferrule with the rear surface of the adapter. This allows the fiber to be placed in near-physical contact with any optics or instruments that are placed after the adapter.

Post-Mounting Adapter
The FCM is a post-mounting adapter for FC- or ST-connectorized fibers, or any other fiber connectorized with a 2.5 mm outer diameter ferrule, such as our lightweight patch cables. This flexure clamp includes an 8-32 (M4) tapped hole for post mounting, and uses a 5/64" (2 mm) hex to secure the ferrule.

Selection Guide Terminated Fiber Adapters
Externally SM05-Threaded Fiber Adapters
Internally SM05-Threaded Fiber Adapters
Externally SM1-Threaded Fiber Adapters
Internally SM1-Threaded Fiber Adapters
Externally C-Mount-Threaded Fiber Adapters
Unthreaded Ø1/2" Fiber Adapters
Unthreaded Ø1" Fiber Adapters
Bulkhead Adapters
Externally SM1-Threaded Ø2.5 mm Ferrule Adapter
Post-Mountable Ø2.5 mm Ferrule Clamp

Externally SM05-Threaded Fiber Adapters

- SM05-Threaded (0.535"-40) Disks with FC/PC, FC/APC, SMA, or ST/PC Receptacle
- Light-Tight Construction when used with SM05 Lens Tubes
- Compatible with Many of Our 16 mm Cage Plates

Note: The ST and SMA adapters have indents/dimples in the front surface to allow the adapter to be tightened with the SPW801 spanner wrench. Note that these indents do not go all the way through the disk. The FC receptacle is too large to include the tightening indents. Instead we recommend putting an FC connector into the receptacle of the adapter to aid in tightening.

Item #	SM05FC[a]	SM05FCA[b]	SM05SMA[c]	SM05ST
Adapter Image (Click the Image to Enlarge)				
Connector Type	FC/PC	FC/APC	SMA	ST/PC
Threading	External SM05 (0.535"-40)			

a. The FC/PC bulkhead, without the SM05-threaded plate, is available separately below.
b. Please note that the SM05FCA has a mechanical angle of only 4°, even though the standard angle for these connectors is 8°. There is a 4° angle of deflection caused by the glass-air interface; when combined with the 4° mechanical angle, the output beam is aligned perpendicular to the adapter face.
c. The SMA bulkhead, without the SM05-threaded plate, is available separately below.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal/Imperial		Price	Available / Ships	
+1			SM05FC	FC/PC Fiber Adapter Plate with External SM05 (0.535"-40) Thread	$27.30	√	Today
+1			SM05FCA	FC/APC Fiber Adapter Plate with External SM05 (0.535"-40) Thread	$32.00	√	Today
+1			SM05SMA	SMA Fiber Adapter Plate with External SM05 (0.535"-40) Thread	$27.30	√	Today
+1			SM05ST	ST/PC Fiber Adapter Plate with External SM05 (0.535"-40) Thread	$27.30	√	Today

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Internally SM05-Threaded Fiber Adapters

- SM05-Threaded Disks with FC/PC, SMA, ST/PC, SC/PC, or LC/PC Receptacle
- Internal SM05 (0.535"-40) Threading
- Light-Tight Construction when used with SM05 Lens Tubes
- Compatible with Our Fiber Optic Power Meters

Item #	PM20-FC	PM20-SMA	PM20-ST	PM20-SC	PM20-LC
Adapter Image (Click the Image to Enlarge)					
Connector Type	FC/PC[a]	SMA	ST/PC	SC/PC	LC/PC
Threading	Internal SM05 (0.535"-40)				

a. In certain angle-independent applications, this adapter may also be used with FC/APC connectors.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal/Imperial		Price	Available / Ships	
+1			**PM20-FC**	FC/PC Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	$31.00	√	Today
+1			**PM20-SMA**	SMA Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	$31.00	√	Today
+1			**PM20-ST**	ST/PC Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	$43.00	√	Today
+1			**PM20-SC**	SC/PC Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	$43.00	√	Today
+1			**PM20-LC**	Customer Inspired! LC/PC Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	$43.00	√	Today

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Externally SM1-Threaded Fiber Adapters

- Externally SM1-Threaded (1.035"-40) Disks with FC/PC, FC/APC, SMA, or ST/PC Receptacle
- Light-Tight When Used with SM1 Lens Tubes
- Compatible with Many of Our 30 mm Cage Plates and Photodetectors

Each disk has two dimples in the front surface so it can be tightened with the SPW909 or SPW801 spanner wrench. The dimples do not go all the way through the disk so that the adapters can be used in light-tight applications when paired with SM1 lens tubes. Once the adapter is at the desired position, use an SM1RR retaining ring to secure it in place.

For an externally SM1-threaded Ø2.5 mm ferrule adapter, please see below.

Item #	SM1FC[a]	SM1FCA[b]	SM1SMA[c]	SM1ST
Adapter Image (Click the Image to Enlarge)				
Connector Type	FC/PC	FC/APC	SMA	ST/PC
Threading	External SM1 (1.035"-40)			

a. The FC/PC bulkhead, without the SM1-threaded plate, is available separately below.
b. Please note that the SM1FCA has a mechanical angle of only 4°, even though the standard angle for these connectors is 8°. There is a 4° angle of deflection caused by the glass-air interface; when combined with the 4° mechanical angle, the output beam is aligned perpendicular to the adapter face.
c. The SMA bulkhead, without the SM1-threaded plate, is available separately below.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal/Imperial		Price	Available / Ships	
+1			**SM1FC**	FC/PC Fiber Adapter Plate with External SM1 (1.035"-40) Thread	$28.35	√	Today
+1			**SM1FCA**	FC/APC Fiber Adapter Plate with External SM1 (1.035"-40) Thread	$30.00	√	Today
+1			**SM1SMA**	SMA Fiber Adapter Plate with External SM1 (1.035"-40) Thread	$28.35	√	Today
+1			**SM1ST**	ST/PC Fiber Adapter Plate with External SM1 (1.035"-40) Thread	$28.35	√	Today

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Internally SM1-Threaded Fiber Adapters

- Internally SM1-Threaded (1.035"-40) Disks with FC/PC, SMA, ST/PC, SC/PC, or LC/PC Receptacle
- Light-Tight Construction when used with SM1 Lens Tubes
- Compatible with Many of Our Photodiode Power Sensors

Item #	S120-FC[a]	S120-SMA[b]	S120-ST	S120-SC	S120-LC
Adapter Image (Click the Image to Enlarge)					
Connector Type	FC/PC[c]	SMA	ST/PC	SC/PC	LC/PC
Threading	Internal SM1 (1.035"-40)				

a. The FC/PC bulkhead, without the SM1-threaded plate, is available separately below.
b. In certain angle-independent applications, this adapter may also be used with FC/APC connectors.
c. The SMA bulkhead, without the SM1-threaded plate, is available separately below.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal/Imperial		Price	Available / Ships	
+1			**S120-FC**	FC/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	$38.00	√	Today

+1		S120-SMA	SMA Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	$38.00	√	Today
+1		S120-ST	ST/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	$38.00	√	Today
+1		S120-SC	SC/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	$48.00	√	Today
+1		S120-LC	LC/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	$48.00	√	Today

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Externally C-Mount-Threaded Fiber Adapters

- C-Mount (1.000"-32) Threaded Disks with FC/PC, FC/APC, or SMA Receptacle
- Light-Tight Construction
- Compatible with Our SPW909 and SPW801 Spanner Wrenches
- Compatible with Our C-Mount Cameras

Item #	CMTFC[a]	CMTFCA[b]	CMTSMA[c]
Adapter Image (Click the Image to Enlarge)			
Connector Type	FC/PC	FC/APC	SMA
Threading	External C-Mount (1.000"-32)		

a. The FC/PC bulkhead, without the C-Mount-threaded plate, is available separately below.
b. Please note that the CMTFCA has a mechanical angle of only 4°, even though the standard angle for these connectors is 8°. There is a 4° angle of deflection caused by the glass-air interface; when combined with the 4° mechanical angle, the output beam is aligned perpendicular to the adapter face.
c. The SMA bulkhead, without the C-Mount-threaded plate, is available separately below.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal/Imperial		Price	Available / Ships	
+1			CMTFC	FC/PC Fiber Adapter Plate with C-Mount (1.00"-32) Thread	$27.30	√	Today
+1			CMTFCA	FC/APC Fiber Adapter Plate with C-Mount (1.00"-32) Thread	$42.00	√	Today
+1			CMTSMA	SMA Fiber Adapter Plate with C-Mount (1.00"-32) Thread	$27.30	√	Today

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Unthreaded Ø1/2" Fiber Adapters

- Unthreaded Ø1/2" Disk with an FC/PC, FC/APC, or SMA Receptacle
- Compatible with Optomechanics for Ø1/2" Optics
- Light-Tight Construction

Item #	S05FC	S05FCA[a]	S05SMA
Adapter Image (Click the Image to Enlarge)			
Connector Type	FC/PC	FC/APC	SMA
Outer Diameter	1/2"		
Disk Thickness	2.5 mm	1.5 mm	3.2 mm

a. Please note that the S05FCA has a mechanical angle of only 4°, even though the standard angle for these connectors is 8°. There is a 4° angle of deflection caused by the glass-air interface; when combined with the 4° mechanical angle, the output beam is aligned perpendicular to the adapter face.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal/Imperial		Price	Available / Ships	
+1			S05FC	Ø1/2" FC/PC Fiber Adapter Plate Without Thread	$27.30	√	Today
+1			S05FCA	Ø1/2" FC/APC Fiber Adapter Plate Without Thread	$32.00	√	Today
+1			S05SMA	Ø1/2" SMA Fiber Adapter Plate Without Thread	$27.30	√	Today

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Unthreaded Ø1" Fiber Adapters

- Unthreaded Ø1" Disk with an FC/PC, FC/APC, or SMA Receptacle
- Compatible with Optomechanics for Ø1" Optics
- Light-Tight Construction

Each adapter shown here has two small dimples for aligning the adapter with our SPW909 fixed spanner wrench or SPW801 adjustable spanner wrench. The dimples do not go all the way through the disk so that the adapters can be used in light-tight applications.

Item #	S1FC[a]	S1FCA[b]	S1SMA[c]
Adapter Image (Click the Image to Enlarge)			
Connector Type	FC/PC	FC/APC	SMA
Outer Diameter	1"		
Disk Thickness	2.5 mm	2.5 mm	3.2 mm

a. The FC/PC bulkhead, without the unthreaded adapter plate, is available separately below.

b. Please note that the S1FCA has a mechanical angle of only 4°, even though the standard angle for these connectors is 8°. There is a 4° angle of deflection caused by the glass-air interface; when combined with the 4° mechanical angle, the output beam is aligned perpendicular to the adapter face.
c. The SMA bulkhead, without the unthreaded adapter plate, is available separately below.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal/Imperial		Price	Available / Ships	
			S1FC	Ø1" FC/PC Fiber Adapter Plate Without Thread	$28.35	√	Today
			S1FCA	Ø1" FC/APC Fiber Adapter Plate Without Thread	$32.00	√	Today
			S1SMA	Ø1" SMA Fiber Adapter Plate Without Thread	$28.35	√	Today

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Bulkhead Adapters



Zoom

- Ideal for OEM or Custom Applications
- 2.2 mm Wide-Key-Slot FC/PC Bulkhead Adapter
- SMA905- or SMA906-Style Bulkhead Adapter
- Project Light into Free Space

Thorlabs' Bulkhead Adapters contain one connector for the projection of light into free space, where the light can then be manipulated or used by other optical devices, such as lenses or detectors. Ideal for OEM or custom applications, the design aligns the front face of the connector ferrule with the rear surface of the adapter, as shown in the photo to the right. The lack of a second connector at this surface allows for the projection of light from the fiber into free space. It also allows the fiber to be placed in near-physical contact with any optics or instruments that are placed after the adapter.


Click to Enlarge
HASMA Adapter Attached to an SMA-Terminated Fiber Patch Cable

The HAFC adapter has a 2.2 mm wide-key-slot FC/PC bulkhead for compatibility with our FC/PC terminated fiber optic patch cables. Opposite the FC/PC connector is a 3/8"-24 external mounting thread used for mounting the bulkhead adapter into OEM or custom systems.

Our HASMA adapter is 0.38" (9.65 mm) long, with a 1/4"-36 threaded barrel for use with SMA905- and SMA906-style terminated fiber optic patch cables. The threaded barrel can also be used with the lock nut for mounting within OEM or custom systems.

The uncommon mounting threads in these adapters will require the use of custom mounting solutions. We recommend engaging at least two threads for stability when using a custom mount, with thread locker (Loctite) as an option for permanent solutions. If tapping a hole is not an option, the adapters can also be epoxied in place.

If a custom or OEM solution is not desired, both adapters are also available mounted within SM-threaded disks (sold above) for compatibility with our lens tube systems. Fiber and bulkhead caps are also available for preventing damage to the connectorized fiber when it is not in use.

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+1	Qty	Docs	Part Number - Universal/Imperial		Price	Available / Ships	
			HAFC	FC/PC Bulkhead Adapter, Wide Key (2.2 mm)	$17.00	√	Today
			HASMA	SMA Bulkhead Adapter with Lock Nut	$7.70	√	Today

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Externally SM1-Threaded Ø2.5 mm Ferrule Adapter



Zoom

- Externally SM1-Threaded (1.035"-40) Disk with Flexure Clamp for Ø2.5 mm Ferrule Connectors
- Light-Tight When Used with Ø1" Lens Tubes
- Compatible with Our 30 mm Cage Plates and Photodetectors

The SM1FCM Ferrule Adapter Plate allows a Ø2.5 mm ferrule connector to be mounted within SM1-threaded (1.035"-40) systems. The disk is externally SM1-threaded (1.035"-40) and has two dimples for tightening using an SPW909 or SPW801 Spanner Wrench. These dimples do not pass through the disk, ensuring the SM1FCM is light-tight when used with SM1-threaded (1.035"-40) lens tubes. Once the adapter is in the desired position, use an SM1RR retaining ring to secure it in place.

The flexure clamp for the ferrule is secured with a 4-40 cap screw, which can be tightened using a 3/32" balldriver or hex key; approximately 1.25 in-lbs (0.14 N·m) of torque is sufficient. When the ferrule is correctly positioned, the distance from the fiber end face to the adapter face is 0.01" (0.3 mm).


Click to Enlarge
An SM1FCM Adapter Shown in a KM100T SM1-Threaded Kinematic Mount with Ferrule-Connectorized Patch Cable

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal/Imperial		Price	Available / Ships	
			SM1FCM	Customer Inspired! Ø2.5 mm Ferrule Adapter Plate with External SM1 (1.035"-40) Thread	$60.00	√	Today

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Post-Mountable Ø2.5 mm Ferrule Clamp



Zoom

- Compact Flexure Clamp for Ø2.5 mm Ferrules
- Compatible with FC/PC, FC/APC, ST/PC, and Ferrule Connectors with a 2.5 mm Outer Diameter
- 8-32 (M4) Tapped Mounting Hole
- Compatible with Ø1/2" Optical Posts

The FCM Ferrule Clamp allows any connectorized fiber with a Ø2.5 mm ferrule to be mounted securely and compactly within an experimental setup. The fiber ferrule is clamped into the flexure mount using a 5/64" (2 mm) hex key. An 8-32 (M4) tapped hole on the bottom of the mount provides compatibility with our Ø1/2" optical posts.


Click to Enlarge
FCM Clamp with FC/PC Connector


Click to Enlarge
FCM Clamp with Ferrule-Connectorized Cable

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal/Imperial	Price	Available / Ships
+1			FCM Post-Mountable Ø2.5 mm Ferrule Clamp, 8-32 Mounting Hole	$18.90	√ Today

+1	Qty	Docs	Part Number - Metric	Price	Available / Ships
+1			FCM/M Post-Mountable Ø2.5 mm Ferrule Clamp, M4 Mounting Hole	$18.90	√ Today

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Additional Adapters

Optical Component Thread Adapters
Lens Tube Couplers
Cage System Size Adapter Plates
Fiber Collimator Adapters
Terminated Fiber Adapters
Adapters for Unmounted Optics
Adapters for Mounted Aspheres and Achromats
Small Outer Diameter Adapters
SM Threads to Smooth Bore Adapters
Optic Mount to SM-Threading Adapters
Microscope Port Adapters
Objective Lens Turret
Parfocal Length Extender for Microscope Objectives
Grating Mount Adapters
OEM Flange to SM1 Thread Adapter
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Counterbore Adapters
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