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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



Related Items

- Connectors
- Fiber Patch Cables
- FiberPorts
- Mirror Mounts

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 applications. 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)			

- The FC/PC bulkhead, without the SM05-threaded plate, is available separately [below](#).
- 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.
- 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
<input type="text"/>		SM05FC FC/PC Fiber Adapter Plate with External SM05 (0.535"-40) Thread	\$27.30	✓ Today
<input type="text"/>		SM05FCA FC/APC Fiber Adapter Plate with External SM05 (0.535"-40) Thread	\$32.00	✓ Today
<input type="text"/>		SM05SMA SMA Fiber Adapter Plate with External SM05 (0.535"-40) Thread	\$27.30	✓ Today
<input type="text"/>		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
	<input type="text"/>		PM20-FC FC/PC Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	\$31.00	✓ Today
	<input type="text"/>		PM20-SMA SMA Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	\$31.00	✓ Today
	<input type="text"/>		PM20-ST ST/PC Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	\$43.00	✓ Today
	<input type="text"/>		PM20-SC SC/PC Fiber Adapter Cap with Internal SM05 (0.535"-40) Thread	\$43.00	✓ Today
	<input type="text"/>		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
	<input type="text"/>		SM1FC FC/PC Fiber Adapter Plate with External SM1 (1.035"-40) Thread	\$28.35	✓ Today
	<input type="text"/>		SM1FCA FC/APC Fiber Adapter Plate with External SM1 (1.035"-40) Thread	\$30.00	✓ Today
	<input type="text"/>		SM1SMA SMA Fiber Adapter Plate with External SM1 (1.035"-40) Thread	\$28.35	✓ Today
	<input type="text"/>		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
	<input type="text"/>		S120-FC FC/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	\$38.00	✓ Today

	<input type="text"/>		S120-SMA SMA Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	\$38.00	✓	Today
	<input type="text"/>		S120-ST ST/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	\$38.00	✓	Today
	<input type="text"/>		S120-SC SC/PC Fiber Adapter Cap with Internal SM1 (1.035"-40) Thread	\$48.00	✓	Today
	<input type="text"/>		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
	<input type="text"/>		CMTFC FC/PC Fiber Adapter Plate with C-Mount (1.00"-32) Thread	\$27.30	✓ Today
	<input type="text"/>		CMTFCA FC/APC Fiber Adapter Plate with C-Mount (1.00"-32) Thread	\$42.00	✓ Today
	<input type="text"/>		CMTSMA SMA Fiber Adapter Plate with C-Mount (1.00"-32) Thread	\$27.30	✓ Today

Add To Cart

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
	<input type="text"/>		S05FC Ø1/2" FC/PC Fiber Adapter Plate Without Thread	\$27.30	✓ Today
	<input type="text"/>		S05FCA Ø1/2" FC/APC Fiber Adapter Plate Without Thread	\$32.00	✓ Today
	<input type="text"/>		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
	<input type="text"/>		S1FC Ø1" FC/PC Fiber Adapter Plate Without Thread	\$28.35	✓ Today
	<input type="text"/>		S1FCA Ø1" FC/APC Fiber Adapter Plate Without Thread	\$32.00	✓ Today
	<input type="text"/>		S1SMA Ø1" SMA Fiber Adapter Plate Without Thread	\$28.35	✓ Today

Add To Cart

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
	<input type="text"/>		HAFC FC/PC Bulkhead Adapter, Wide Key (2.2 mm)	\$17.00	✓ Today
	<input type="text"/>		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
	<input type="text"/>		SM1FCM Customer Inspired! Ø2.5 mm Ferrule Adapter Plate with External SM1 (1.035"-40) Thread	\$60.00	✓ Today

Add To Cart

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
	<input type="text"/>		FCM Post-Mountable Ø2.5 mm Ferrule Clamp, 8-32 Mounting Hole	\$18.90	✓ Today
+1	Qty	Docs	Part Number - Metric	Price	Available / Ships
	<input type="text"/>		FCM/M Post-Mountable Ø2.5 mm Ferrule Clamp, M4 Mounting Hole	\$18.90	✓ Today
<input type="button" value="Add To Cart"/>					

Additional Adapters

- [Optical Component Thread Adapters](#)
- [Small Outer Diameter Adapters](#)
- [OEM Flange to SM1 Thread Adapter](#)
- [Counterbore Adapters](#)
- [Lens Tube Couplers](#)
- [SM Threads to Smooth Bore Adapters](#)
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- [Optic Mount to SM-Threading Adapters](#)
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Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

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