

AFL

CONNECTOR INSPECTION ADAPTER TIPS

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FOCIS Lightning®2 Adapter Tips

FOCIS Lightning2 Adapter Tips for MPO/MTP® Connector Inspection

The adapter tips listed in this section are used to inspect MPO bulkhead connectors. These adapters are typically found in fiber panels or pre-term fiber modules.



MPO Adapter Panel



Fiber Module

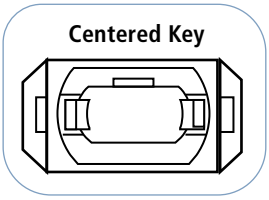


MPO adapter

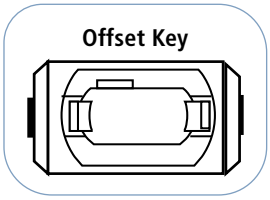
Note: these adapters can also be used to inspect MPO trunk cables and patchcords by using a separate MPO adapter with the adapter tip. The following considerations should be made to select the correct MPO adapter tip.

Keys

MPO adapters are keyed to ensure that the correct polarity is maintained. To ensure that "Base-12" MPOs are not inadvertently connected with "Base-16" MPOs, unique keying standards have been developed. As shown below, MPO-12 keys are centered while MPO-16 keys are offset.



MPO-12/24



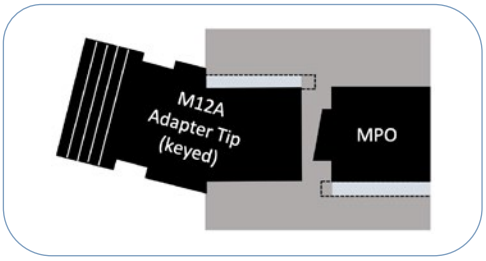
MPO-16/32

As shown below, FOCIS Lightning2 adapter tips are available with full keys (specifically for MPO-12 and MPO-16) "partial keys" which enable keyed alignment with MPO-12 and MPO-16 keyed adapters, and without keys

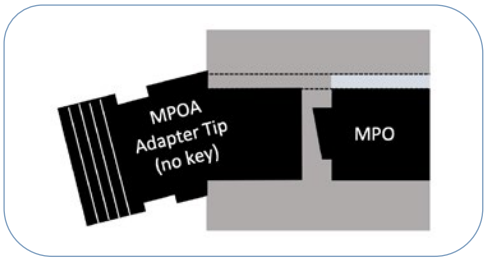
FULL KEY		PARTIAL	NO KEY
 Centered key (MPO-12/24)	 Offset key (MPO-16/32)	 Partial key (MPO-12/24 and MPO-16/32)	 No key (MPO-12/24 and MPO-16/32)

Angled Connectivity (Single-mode)

The MPO connectors on single-mode MPO trunk cables and single-mode fiber modules use an 8° angle to optimize return loss. To enable inspection of angled MPOs, FOCIS Lightning2 uses inspection tips with a matching angle. As shown below it is important to match the adapter angle with the angle of the single-mode trunk.



MPO Adapter with Opposing keys (key up/ key down)



MPO Adapter with Aligned keys (key up/ key up)

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FOCIS Lightning®/FOCIS Lightning2 Adapter Tips for MPO/MTP® Connector Inspection

AFL NO.	IMAGE	DESCRIPTION	TIP ID	KEYS
FLTNG-01-M12A		Adapter tip for MPO-12/24 APC bulkhead (with key)	M12A	**Keyed for 12/24 fiber**
FLTNG-01-M12U		Adapter tip for MPO-12/24 UPC bulkhead (with key)	M12U	**Keyed for 12/24 fiber**
FLTNG-01-M16U		Adapter tip for MPO-16/32 UPC bulkhead (with key)	M16U	**Keyed for 16/32 fiber**
FLTNG-01-MPU		Adapter tip for MPO-12/16/24/32 UPC bulkhead (partial key)	MPU	**Partial Key fits both 12/24 and 16/32 fiber**
FLTNG-01-MPOA		Adapter tip for MPO-12/16/24/32 APC bulkhead (no key)	MPOA	**No Key – used for 12/24 and 16/32 fiber**
FLTNG-01-MPOU		Adapter tip for MPO-12/16/24/32 UPC bulkhead (no key)	MPOU	**No key – used for 12/24 and 16/32 fiber**
FLTNG2-01-LVU		Adapter tip for Large Field of View - UPC MPO (FOCIS Lightning2 only)	RU	**No key – used for 12/24 and 16/32 fiber**

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FOCIS Lightning®2 Miscellaneous Adapter Tips

AFL NO.	TIP IMAGE	TIP DESCRIPTION AND 'WHERE USED'		TIP ID
		DESCRIPTION	CONNECTOR	
FLTNG-01-OPTF		Adapter Tip for OptiTip female (unpinned) connector		OPTF
FLTNG-01-OPTM		Adapter Tip for OptiTip male (pinned) connector		OPTM
FLTNG-01-HSAP		Adapter tip for unpinned Q-ODC connector		HSAP
FLTNG-01-HSAS		Adapter tip for pinned Q-ODC connector		HSAS
FLTNG-01-MMCA		Adapter Tip for MMC APC connector patchords		MMCA
FLTNG-01-MMCE		Adapter tip for MMC APC bulkhead		MMCE

AFL NO.	IMAGE	DESCRIPTION	TIP ID
FLTNG-01-MPE		MPO Extender Barrel - The MPE provides an extension of 4.8 inches (12.3 cm) to enable inspection of MPOs in a crowded patch field or recessed MPO	MPE

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The following adapter tips have been optimized for inspecting MPO trunks and patch cords. They include MPO adapters for directly inspecting MPO cable assemblies. These adapters can accept pinned and un-pinned MPO cable assemblies.

AFL NO.	IMAGE	TIP DESCRIPTION AND 'WHERE USED'		TIP ID
		DESCRIPTION	CABLE ASSY	
FLTNG-01-M12AC		Adapter tip for MPO-12 APC cable		**M12AC**
FLTNG-01-M12UC		Adapter tip for MPO-12 UPC cable		**M12UC**

FOCIS Lightning2 Adapter Tips for Single-Fiber Connector Inspection

Listed below are the LC single-fiber adapter tips can be used and mounted directly on the FOCIS Lightning®2 without the use of the Single Fiber Adapter.

AFL NO.	IMAGE	TIP DESCRIPTION AND 'WHERE USED'		TIP ID
		DESCRIPTION	CONNECTOR	
FLTNG-01-ALCM		Extended adapter tip for LC/APC bulkhead		**ALCM**
FLTNG-01-ULCM		Extended adapter tip for LC/UPC bulkhead		**ULCM**

Inspecting all other single fibers requires the use of the Single Fiber Adapter.

AFL NO.	IMAGE	DESCRIPTION	TIP ID
FLTNG2-01-SFC		Coupler for most'FFLX' single fiber connector adapter tips - FOCIS Lightning2 only	**SFC**

All other single fiber adapter tips listed in section "Adapter Tips for FOCIS Series (Flex, Lightning (with SFA), Duel Port 1, WiFi2)" on page 9 must be used with the Single Fiber Adapter (FLTNG2-01-SFC).

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FOCIS Duel Adapter Tips

The Port 1 of FOCIS Duel (identical to FOCIS Flex) uses both the APC adapter tips listed below as well as the full set of adapter tips qualified for FOCIS Flex and FOCIS WiFi2 listed in section "Adapter Tips for FOCIS Series (Flex, Duel Port 1, WiFi2) and DFS1 Probe" on page 12.

The Port 2 of FOCIS Duel uses very specific tips (listed below) used only for Port 2 of FOCIS Duel.

AFL NO.	IMAGE	DESCRIPTION	PORT USAGE	TIP ID
FFLX-4S-ASC		SC/APC bulkhead adapter tip, quad-slotted	1	**XASC**
FFLX-4S-AFC		FC/APC bulkhead adapter tip, quad-slotted	1	**XAFC**
FFLX-4S-ALC		LC/APC bulkhead adapter tip, quad-slotted	1	**XALC**
FDUO-01-ULC		LC/UPC ferrule adapter tip, single-slotted female "click-in"	2	**SULC**
FDUO-01-ALC		LC/APC ferrule adapter tip, single-slotted female "click-in"	2	**SALC**
FDUO-01-USC		SC/UPC ferrule adapter tip, single-slotted female "click-in"	2	**SUSC**
FDUO-01-ASC		SC/APC ferrule adapter tip, single-slotted female "click-in"	2	**SASC**

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FOCIS Duel Adapter Tips

AFL NO.	IMAGE	DESCRIPTION	PORT USAGE	TIP ID
FDUO-01-U125		Universal 1.25 mm UPC ferrule adapter tip, single-slotted	2	**U1**
FDUO-01-A125		Universal 1.25 mm APC ferrule adapter tip, single-slotted	2	**A1**
FDUO-01-U25		Universal 2.5 mm UPC ferrule adapter tip, single-slotted	2	**U2**
FDUO-01-A25		Universal 2.5 mm APC ferrule adapter tip, single-slotted	2	**A2**

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Adapter Tips for FOCIS Series (Flex, Lightning (with SFA), Duel Port 1, WiFi2)

Ferrule Inspection

AFL NO.	IMAGE	TIP DESCRIPTION AND 'WHERE USED'			TIP ID
		DESCRIPTION	CABLE ASSEMBLY 'WHERE USED'		
FFLX-01-U125		Universal 1.25 mm, UPC ferrule adapter tip	 LC/UPC		**U125**
FFLX-01-U25		Universal 2.5 mm, UPC ferrule adapter tip	 SC/UPC	 FC/UPC	**U25**
FFLX-01-A125		Universal 1.25 mm, APC ferrule adapter tip	 LC/APC		**A125**
FFLX-01-A25		Universal 2.5 mm, APC ferrule adapter tip	 SC/APC	 FC/APC	**A25**

Bulkhead Adapter Inspection

AFL NO.	IMAGE	TIP DESCRIPTION AND 'WHERE USED'		TIP ID
		DESCRIPTION	ADAPTER 'WHERE USED'	
FFLX-01-SC		SC/UPC bulkhead adapter tip	 SC/UPC	**SC**
FFLX-01-FC		FC/UPC bulkhead adapter tip	 FC/UPC	**FC**

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Adapter Tips for FOCIS Series (Flex, Lightning (with SFA), Duel Port 1, WiFi2)

AFL NO.	IMAGE	TIP DESCRIPTION AND 'WHERE USED'		TIP ID
		DESCRIPTION	ADAPTER 'WHERE USED'	
FFLX-4S-ASC		SC/APC bulkhead adapter tip, quad-slotted	 SC/APC	**XASC**
FFLX-4S-AFC		FC/APC bulkhead adapter tip, quad-slotted	 FC/APC	**XAFC**
FFLX-01-LC		LC/UPC bulkhead adapter tip	 LC/UPC	**LC**
FFLX-01-ULCE*		Extended LC UPC Adapter Tip		**ULCE**
FFLX-4S-ALC		LC/APC bulkhead adapter tip, quad-slotted	 LC/APC	**XALC**
FFLX-4S-ALC3*		Extended LC APC bulkhead adapter tip, quad-slotted		**ALC3**
FFLX-4S-E2K		E2000/PC bulkhead adapter tip, quad-slotted (~60 mm)		**E2K**

* Incompatible with FOCIS Lightning2. Refer to section "FOCIS Lightning2 Adapter Tips for Single-Fiber Connector Inspection" on page 6

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Adapter Tips for FOCIS Series (Flex, Lightning (with SFC), Duel Port 1, WiFi2)

AFL NO.	IMAGE	TIP DESCRIPTION AND 'WHERE USED'		TIP ID
		DESCRIPTION	ADAPTER 'WHERE USED'	
FFLX-4S-DCU		MDC/ UPC bulkhead adapter tip, quad-slotted		**DCU**
FFLX-4S-SNU		SN/ UPC bulkhead adapter tip, quad-slotted		**SNU**
FFLX-01-ST		ST®/UPC bulkhead adapter tip		**ST**
FFLX-4S-AE2K		E2000/APC bulkhead adapter tip		**AE2K**
FFLX-4S-OTA		OptiTap® (SC/APC) bulkhead adapter tip, quad-slotted		**OTA**
FFLX-4S-EVA		EVOLV® bulkhead		**EVA**
FFLX-4S-LC6U		NG4 UPC bulkhead adapter tip		**LC6U**
FFLX-4S-LC6A		NG4 APC bulkhead adapter		**LC6A**

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Extensions

The following extension adapters provide an extended range inspection capability for accessing crowded patch panels and difficult to access bulkhead connectors.

AFL NO.	IMAGE	DESCRIPTION
FFLX-01-EXTS46		FOCIS Flex adapter extension tube, straight, 46 mm
FFLX-01-EXTS80		FOCIS Flex adapter extension tube, straight, 80 mm

Adapter Tips for FOCIS Series (Flex, Duel Port 1, WiFi2) and DFS1 Probe

AFL NO.	IMAGE	DESCRIPTION	FOCIS SERIES	DFS1	TIP ID
PC Ferrule Connector Adapter Tips					
DFS1-00-0001MR		Universal 1.25 mm	◆	◆	U125
DFS1-00-0002MR		Universal 2.5 mm	◆	◆	U25
DFS1-00-0006MR		Universal 1.6 mm (for termini)	◆	◆	T16M
DFS1-00-0009MR		SMA 905	◆	◆	SMA

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Adapter Tips for FOCIS Series (Flex, Duel Port 1, WiFi2) and DFS1 Probe

AFL NO.	IMAGE	DESCRIPTION	FOCIS SERIES	DFS1	TIP ID
SC/PC AND FC/PC BULKHEAD ADAPTER TIPS					
DFS1-00-0003MR		SC/PC and FC/PC		◆	**FS**
DFS1-00-0012MR		Long (~150 mm) extended tip for SC/PC and FC/PC bulkhead adapter	◆	◆	**FS**
LC/PC/UPC Bulkhead Adapter Tips					
DFS1-00-0020MR		Medium (~100 mm) extended tip for LC/PC bulkhead adapter		◆	**LC**
DFS1-00-0059MR		Short (~60 mm) extended tip for LC PC/UPC bulkhead adapter	◆	◆	**LCP-S**
MTP/MPO MULTI-FIBER ADAPTER TIPS (ferrule and bulkhead)					
DFS1-00-0041MR		Front end tip for MTP/PC ferrule and bulkhead adapter	◆	◆	**MTP**[b]
DFS1-00-0042MR		MTP/PC and MTP/APC ferrule and bulkhead adapter extended tip kit; includes base and MTP/PC and MTP/APC front end tips	◆	◆	**MTP, MTPA**[a,b]
DFS1-00-0050MR		Multi-row MTP/PC ferrule and bulkhead adapter extended tip kit; includes base and multi-row MTP/PC front end tip	◆	◆	**MTP**[a,b]
DFS1-00-0061MR		MTP/MPO-UPC female style		◆	**MTM**

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Adapter Tips for FOCIS Series (Flex, Duel Port 1, WiFi2) and DFS1 Probe

AFL NO.	IMAGE	DESCRIPTION	FOCIS SERIES	DFS1	TIP ID
DFS1-01-0010MR		MTP/APC ferrule & bulkhead adapter extended tip kit; includes base and MTP/APC front end tip	◆	◆	**MTPA[a],[b]**
DFS1-01-0015MR		Front end for angled MPO-16/MTP-16 connector and bulkhead adapter	◆	◆	**MTPA16[a],[b]**
DFS1-01-0017MR		MTP/MPO-APC female style		◆	**MTMA**
MISCELLANEOUS ADAPTER TIPS					
DFS1-00-0056MR		Universal 60-degree angled extender adapter	◆	◆	**A6A, U-A6**
DFS1-00-0034MR		Tip for 1.6 mm termini bulkhead adapter	◆	◆	**T16F**
DFS1-00-0048MR		TFOCA II ferrule and bulkhead adapter guide only		◆	**TFO-G**
DFS1-00-0057MR		Adapter for Viavi / Westover tips	◆	◆	**WOA**
APC TIPS					
DFS1-01-0013MR		Tip for OptiTip® APC ferrule and bulkhead adapter	◆	◆	**OTIPA**

Notes:

a. MTP extended tip marking includes S/N since these have moving parts.

b. Base plus tip is required to inspect MPO/MTP connectors. All MPO/MTP connectors are inspected through bulkhead adapter.

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Resources

Sales and Support Contacts

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CONNECTOR INSPECTION ADAPTER TIPS

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