



Fiber Instrument Sales, Inc. Telecommunications Fiber Optic Product Catalog

Manufacturer's Edition

Providing Fiber Optic Solutions For Over 35 Years

Splice-On
Connectors

Cross-
Connect
Enclosures

Splicers

Cable
Assemblies

Test
Equipment

Sales Representatives
Are Awaiting Your Call!

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www.fiberinstrumentsales.com



Frank Giotto

Frank Giotto
President and CEO

"FIS" HAS DELIVERED FIBER OPTIC PRODUCTS WORLD-WIDE SINCE 1985. AS A FULL-LINE DISTRIBUTOR AND MANUFACTURER, FIS MAINTAINS ONE OF THE LARGEST PRODUCT INVENTORIES IN THE INDUSTRY.

From engineering specialty fiber optic components, to equipment rentals, to its highly-acclaimed customer training through FIS University, FIS and its highly trained sales staff are nationally and internationally recognized as the fiber industry's "premier problem solvers."

"Solutionist" Capabilities...

- ✓ **Our family of manufacturing companies provide custom solutions.**
EXTRUSION | INJECTION MOLDING | CNC MACHINING
METAL FABRICATION | ELECTRONIC EQUIPMENT PACKAGING
- ✓ **OEM and private label capabilities.**
- ✓ **Wide product selection.**
- ✓ **Engineering, production and application support expertise.**
- ✓ **The largest cross sectional fiber optic inventory at one location in the world.**
- ✓ **Our managed costs provide the profits you deserve!**



Commitment to Quality!

- ISO 9001-2015 Certified
- Products Made in USA
- Over 250,000 sq ft production space
- Custom Manufacturing Capabilities



Continuing to be Your **Fiber-Optic Information Source**

Website

www.fiberinstrumentsales.com

In addition to online shopping, the FIS website offers a wealth of information to make your job easier and more productive. Spec sheets, white papers, training videos, Communicator Newsletter – all are accessible online.



**Shop 24/7
Online**



Live Tech Help

Our sales people and tech support are available by phone as well as online, via our website. You can even access our President and CEO, Frank Giotto. Just click on the link, "Ask the President."



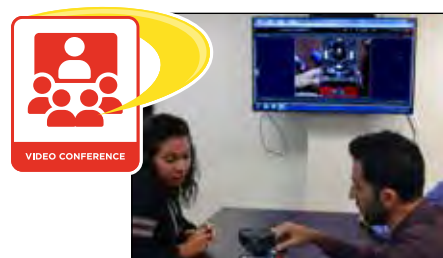
Tutorial Videos

Fusion splicing, fiber termination and network testing are just a few of the informative FIS videos available to you. Videos can be accessed through the FIS Website. Clear and concise, FIS tutorial videos are the next best thing to receiving classroom training.



We have a Connection!

With the addition of a new Video Conference Room FIS is able to provide training and technical support to our customers with ease. This support includes several different types of equipment such as fusion splicers, OTDRs, connector termination kits, and optical loss test sets and much more. **Let us know if you're interested in setting up a video conference call**



You will love our new Configurator

Today's network installations sometimes require customized solutions and here at FIS we are ready to put together a solution that will make your job easier. Do you need to connect a piece of equipment that is further away from the enclosure than a standard length patch cable? Let us build you a custom length patch cable! Our standard turnaround time is 2 to 4 business days. Let's make your custom solution together!



Communicator Newsletter

This six-month publication is a great tool for helping you make informed purchase decisions. For example, various issues of Communicator have provided guidance in selecting the right fusion splicer, OTDR, splice closure and more. Refer to these Communicator "buying guides" when making important purchase decisions. All issues are available in the Communicator Archives on the FIS website.



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- Earn BICSI CECs for RCDD, LAN Specialist and/or Installation!
- Earn Transferable College Credit!
- Earn a Certification Diploma!



As the nation's leading supplier of fiber optics, FIS founded FIS University in 1995 to meet the ever-growing demand for trained professionals within the fiber optic industry. Over the last fifteen years, FIS University has trained over 10,000 professionals in both basic and advanced techniques related to connectorization, testing and fiber optic splicing. Our training staff has over 19 years of industry experience consisting of both field and network engineering capacities. Call 1-800-500-0347 and ask our training coordinator to reserve your seat at one of our many locations nationwide, at Brightside-on-Raquette, or to discuss options to customize your own corporate training. New certification for the FIS Splice-On connector now included with training package.

DAY ONE | FIBER OPTIC COURSE

Basic Fiber Optic Theory

- Advantages of Fiber Optics
- Components in a Link
- Layers of a Simplex Cable
- Singlemode vs. Multimode
- Multifiber Cable Configurations
- Fiber Optic Connectors

FIS SC, LC Connectorization Workshop

- Cable Preparation
- Curing and Scribing
- Polishing

Microscope Operation & Connector Polish Analysis

DAY TWO | ADVANCED FIBER OPTICS

Fiber Optic Review and Self Test

Power Meter & Light Source Theory and Workshop

- PM & LS Operation
- Hands-On Instruction

OTDR Theory and Workshop

- How an OTDR Works
- Events and Trace Analysis
- Reflections and ORL
- OTDR Workshop

Mechanical Splicing Theory & Workshop

- Assembly of SC Bobtail Quick Term Connector

Fusion Splicing Theory & Workshop

- Hands-On Instruction / Troubleshooting

Cheetah Splice-On Connector Certification

- SOC Installation



For Online Training Course Details Visit:

<https://www.fiberinstrumentsales.com/trainings>

Classes In The Adirondacks!

A UNIQUE TRAINING EXPERIENCE!

Ask about training at beautiful Brightside-On-Raquette, our lakeside training center in the Adirondack Mountains of New York State. The Brightside provides a unique and relaxing environment in which to learn about fiber optic theory and techniques. At Brightside, you'll enlighten your mind while refreshing your spirit. After each day of training, you'll have the opportunity for fishing, hiking, boating or just plain relaxing around an Adirondack campfire.

Enjoy hearty camp-style cuisine, topped off with delicious desserts prepared by our on-staff chef. The registration fee includes training, all meals and two-night's lodging in your own private room at The Brightside. Visit our website at: www.brightsideonraquette.com.

Brightside Training Class (per person) | \$599.00USD

CUSTOM & CORPORATE TRAINING

The FIS Training Department can develop customized trainings to meet your specific needs. Training staff is well versed in a variety of topics related to the fiber and copper cabling industries. Class lengths and topics can be tailored to your specifications. FIS has conducted customized classes for many Fortune 500 companies. The following are just some examples of possible course subjects.

- | | | |
|--------------------------------|------------------------|------------------------|
| • Troubleshooting and Cleaning | • Equipment Components | • Trace Interpretation |
| • SMPTE and Tactical Cables | • Testing Techniques | • Trace Analysis |
| • OTDR | • Outside Plant | • Report Generation |
| | | • FTTx |

**For more information
please visit our website at:**

www.fisuniversity.com



The FIS Rack Mount Enclosures are designed for low or high density patching applications. This sturdy 14 gauge rack enclosure is available in 1, 2, 3, 4, and 8RU versions. This unit provides a removable door with front and back access to the slide-out tray. The FIS Enclosures accommodate 19" or 23" racks. Purchase 6, 8, 12 or 24 pack adapter panels. Standard color is Black, simply attach suffix to Rack Mount Enclosures for Off-White (-BW), ex. F1RM2RU4X-BW. All adapter plates are sold separately.



FIS Rack Mount Fiber Optic Swing-Out Patch Panels



F1-RMS01RU2X

Closed

1RU SWING-OUT PATCH PANEL - ACCOMMODATES (2) ADAPTER PLATES

The 1RU FIS Swing Out Patch Panel accommodates (2) LGX adapter plates, modules or cassettes. The swing-out design offers easy access to the patch and splice bay. Multiple cable retention brackets and tie down spots allow for convenient cable management. These units can be flush mounted or mounted with 3.5" protrusion from the rack with no additional accessories. Rack mount installs into a standard 19" rack with included mounting hardware. Adapter plates and 23" mounting brackets are sold separately.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1RMS01RU2X	1RU Swing Out Enclosure, 2 Plates, Black, Unloaded	1.75" x 17" x 11.5"
F1RMS01RU2X-BW	1RU Swing Out Enclosure, 2 Plates, Off White, Unloaded	1.75" x 17" x 11.5"



F1-RMS02RU4X

Closed

2RU SWING-OUT PATCH PANEL - ACCOMMODATES (4) ADAPTER PLATES

The 2RU FIS Swing Out Patch Panel accommodates (4) LGX adapter plates, modules or cassettes. The swing-out design offers easy access to the patch and splice bay. Multiple cable retention brackets and tie down spots allow for convenient cable management. These units can be flush mounted or mounted with 3.5" protrusion from the rack with no additional accessories. Rack mount installs into a standard 19" rack with included mounting hardware. Adapter plates and 23" mounting brackets are sold separately.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1RMS02RU4X	2RU Swing Out Enclosure, 4 Plates, Black, Unloaded	3.5" x 17" x 11.5"
F1RMS02RU4X-BW	2RU Swing Out Enclosure, 4 Plates, Off White, Unloaded	3.5" x 17" x 11.5"

FIS Rack Mount Fiber Optic Flush Mount Patch Panel Frame



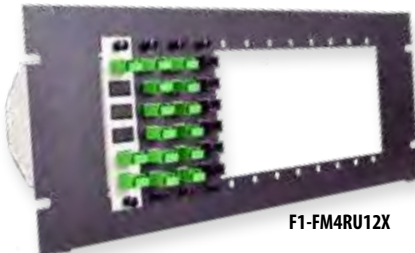
F1-FM1RU3X

Loaded
(Panels & Cassettes sold separately)

1RU FLUSH MOUNT PATCH PANEL FRAME - ACCOMMODATES (3) ADAPTER PLATES

The 1RU FIS Flush Mount Patch Panel Frame accommodates (3) LGX adapter plates, modules or cassettes. The flush mount design attaches flat against the rack to save space in compact applications. Patch panel frame installs into a standard 19" rack with included mounting hardware. Adapter plates sold separately.

PART #	DESCRIPTION	DIMENSIONS (HxW)
F1FM1RU3X	1RU Flush Mount Frame, 3 Plates, 19", Black, Unloaded	1.75" x 19"



F1-FM4RU12X

4RU FLUSH MOUNT PATCH PANEL FRAME - ACCOMMODATES (12) ADAPTER PLATES

The 4RU FIS Flush Mount Patch Panel Frame accommodates (12) LGX adapter plates, modules or cassettes. The flush mount design attaches flat against the rack to save space in compact applications. Patch panel frame installs into a standard 19" rack with included mounting hardware. Adapter plates sold separately.

PART #	DESCRIPTION	DIMENSIONS (HxW)
F1FM4RU12X	4RU Flush Mount Frame, 12 Plates, 19", Black, Unloaded	7" x 19"

FIS Rack Mount Fiber Optic Patch and Splice Panel Frame



F1-RMSP4RU4X

4RU PATCH AND SPLICE PANEL - ACCOMMODATES (4) ADAPTER PLATES

The 4RU FIS Patch and Splice Panel accommodates (4) LGX adapter plates, modules or cassettes. The 2 sliding trays on the top and bottom of the enclosure allow for easy access to both patch and splice bays. Multiple cable retention brackets, splice tray mounts and tie down spots allow for convenient cable management. Rack mount installs into a standard 19" rack with included mounting hardware. Adapter plates, splice trays and 23" mounting brackets are sold separately.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1RMSP4RU4X	4RU Patch and Splice Enclosure, 4 Plates, Black	7.125" x 17" x 14"
F1RMSP4RU4X-BW	4RU Patch and Splice Enclosure, 4 Plates, Off White	7.125" x 17" x 14"



F1-RMSP8RU12X

8RU PATCH AND SPLICE PANEL - ACCOMMODATES (12) ADAPTER PLATES

The 8RU FIS Patch and Splice Panel accommodates (12) LGX adapter plates, modules or cassettes. The 2 sliding trays on the top and bottom of the enclosure allow for easy access to both patch and splice bays. Multiple cable retention brackets, splice tray mounts and tie down spots allow for convenient cable management. Rack mount installs into a standard 19" rack with included mounting hardware. Adapter plates, splice trays and 23" mounting brackets are sold separately.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1RMSP8RU12X	8RU Patch and Splice Enclosure, 12 Plates, Black, Unloaded	14" x 17" x 14"

1RU CABLE MANAGEMENT ENCLOSURE

The FIS 1RU Slack Cable Management Enclosure provides a secure, dedicated space for fiber optic cable slack storage. The slide out tray and removable doors provides easy access when managing fiber. Comfortably route and store up to 25 meters of 3.0mm simplex fiber around the semi-circular slack management rings.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1RM1RUSCM	1RU Slack Cable Management Enclosure, Black	1.75" x 17" x 14"



F1-RM1RUSCM

FIS Rack Mount Fiber Optic Distribution Interconnects

1RU RACK MOUNT - ACCOMMODATES (3) ADAPTER PLATES

The 1RU FIS Rack Mount Enclosure accommodates (3) LGX adapter plates, modules or cassettes. Slide out trays and removable front and back doors allow easy access to the patch bay. Multiple cable retention brackets and tie down spots allow for convenient cable management. Spring loaded stop latches keep the tray securely in place when retracted. Rack mount installs into a standard 19" rack. Adapter plates, 23" mounting brackets and 19" flush mounting brackets are sold separately.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1RM1RU3X	1RU Rack Mount, 3 Plates, Solid Front/Rear Doors, Black, Unloaded	1.75" x 17" x 14"
F1RM1RU3X-BW	1RU Rack Mount, 3 Plates, Solid Front/Rear Doors, Off White, Unloaded	1.75" x 17" x 14"

F1-RM1RU3X
(3) Six packs = 18 Port
(3) Eight packs = 24 Port

2RU RACK MOUNT - ACCOMMODATES (4) ADAPTER PLATES

The 2RU FIS Rack Mount Enclosure accommodates (4) LGX adapter plates, modules or cassettes. Slide out trays and removable front and back doors allow easy access to the patch bay. Multiple cable retention brackets and tie down spots allow for convenient cable management. A smoked Lexan front door is available to provide visibility into the enclosure. Rack mount installs into a standard 19" rack. Adapter plates, 23" mounting brackets and 19" flush mounting brackets are sold separately.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1RM2RU4X	2RU Rack Mount, 4 Plates, Solid Front/Rear Doors, Black, Unloaded	3.5" x 17" x 14"
F1RM2RU4XL	2RU Rack Mount, 4 Plates, Lexan Front and Solid Rear Door, Black, Unloaded	3.5" x 17" x 14"
F1RM2RU4X-BW	2RU Rack Mount, 4 Plates, Solid Front/Rear Doors, Off White, Unloaded	3.5" x 17" x 14"
F1RM2RU4XL-BW	2RU Rack Mount, 4 Plates, Lexan Front and Solid Rear Door, Off White, Unloaded	3.5" x 17" x 14"

F1-RM2RU4X
(4) Six packs = 24 Port
(4) Eight packs = 32 Port

2RU RACK MOUNT - ACCOMMODATES (6) ADAPTER PLATES

The 2RU FIS Rack Mount Enclosure accommodates (6) LGX adapter plates, modules or cassettes. Slide out trays and removable front and back doors allow easy access to the patch bay. Multiple cable retention brackets and tie down spots allow for convenient cable management. A smoked Lexan front door is available to provide visibility into the enclosure. Rack mount installs into a standard 19" rack. Adapter plates, 23" mounting brackets and 19" flush mounting brackets are sold separately.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1RM2RU6X	2RU Rack Mount, 6 Plates, Solid Front/Rear Doors, Black, Unloaded	3.5" x 17" x 14"
F1RM2RU6XL	2RU Rack Mount, 6 Plates, Lexan Front and Solid Rear Door, Black, Unloaded	3.5" x 17" x 14"
F1RM2RU6X-BW	2RU Rack Mount, 6 Plates, Solid Front/Rear Doors, Off White, Unloaded, Unloaded	3.5" x 17" x 14"
F1RM2RU6XL-BW	2RU Rack Mount, 6 Plates, Lexan Front and Solid Rear Door, Off White, Unloaded	3.5" x 17" x 14"

F1-RM2RU6X
(6) Six Packs = 36 port
(6) Eight Packs = 48 port

4RU RACK MOUNT - ACCOMMODATES (12) ADAPTER PLATES

The 4RU FIS Rack Mount Enclosure accommodates (12) LGX adapter plates, modules or cassettes. Slide out trays and removable front and back doors allow easy access to the patch bay. Multiple cable retention brackets and tie down spots allow for convenient cable management. A smoked Lexan front door is available to provide visibility into the enclosure. Rack mount installs into a standard 19" rack. Adapter plates and 23" mounting brackets are sold separately.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1RM4RU12X	4RU Rack Mount, 12 Plates, Solid Front/Rear Doors, Black, Unloaded	7.125" x 17" x 14"
F1RM4RU12XL	4RU Rack Mount, 12 Plates, Lexan Front and Solid Rear Door, Black, Unloaded	7.125" x 17" x 14"
F1RM4RU12X-BW	4RU Rack Mount, 12 Plates, Solid Front/Rear Doors, Off White, Unloaded	7.125" x 17" x 14"
F1RM4RU12XL-BW	4RU Rack Mount, 12 Plates, Lexan Front and Solid Rear Door, Off White, Unloaded	7.125" x 17" x 14"

F1-RM4RU12X
(12) Six Packs = 72 port
(12) Eight Packs = 96 port

8RU RACK MOUNT - ACCOMMODATES (24) ADAPTER PLATES

The 8RU FIS Rack Mount Enclosure accommodates (24) LGX adapter plates, modules or cassettes. Slide out trays and removable front and back doors allow easy access to the patch bay. Multiple cable retention brackets and tie down spots allow for convenient cable management. A smoked Lexan front door is available to provide visibility into the enclosure. Rack mount installs into a standard 19" rack. Adapter plates and 23" mounting brackets are sold separately.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1RM8RU24X	8RU Rack Mount, 24 Plates, Solid Front/Rear Doors, Black, Unloaded	14" x 17" x 14"
F1RM8RU24XL	8RU Rack Mount, 24 Plates, Lexan Front and Solid Rear Door, Black, Unloaded	14" x 17" x 14"
F1RM8RU24X-BW	8RU Rack Mount, 24 Plates, Solid Front/Rear Doors, Off White, Unloaded	14" x 17" x 14"
F1RM8RU24XL-BW	8RU Rack Mount, 24 Plates, Lexan Front and Solid Rear Door, Off White, Unloaded	14" x 17" x 14"

F1-RM8RU24X
(24) Six packs = 144 Port
(24) Eight packs = 192 Port



F1-MW2X



F1-EW2X



F1-DW2X



FF-WM012BLK



F1-SW12T

FIS MINI WALL MOUNT ENCLOSURE

The FIS Mini Wall Mount has capacity for (1) or (2) LGX style adapter plates, depending on the size of the enclosure chosen. Ideal for patching smaller quantities of fibers in a compact form factor. Fiber enters and exits from the bottom of the enclosure, and a cable spool and tie down stance provides fiber management options. A single door is removable and lockable with a padlock (sold separately).

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1-MW1X	1 Plate Mini (Unloaded) Black	9.18" x 6.38" x 2.625"
F1-MW1X-BW	1 Plate Mini (Unloaded) Off White	9.18" x 6.38" x 2.625"
F1-MW2X	2 Plate Mini (Unloaded) Black	9.18" x 6.38" x 2.625"
F1-MW2X-BW	2 Plate Mini (Unloaded) Off White	9.18" x 6.38" x 2.625"

FIS ECONOMY WALL MOUNT ENCLOSURES

The FIS Economy Wall Mount has capacity for (2) or (4) LGX style adapter plates depending on the size of the enclosure chosen. It features a cable spool, bridge stances and a mounting stud and nut to secure splice trays. The lockable inner door (lock/key included) provides safe storage of incoming cable while allowing the technician to manipulate outgoing fiber patches. The outer door is removable and lockable with a padlock (sold separately). Accommodates QTY (2) splice trays approximately 7"L x 4"W (Ex. F1-SPL12). Ask an FIS sales associate about pre-loading the enclosure with fiber pigtails, splice trays and adapter plates.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1-EW2X	2 Plate Economy (Unloaded) Black	10.33" x 12.12" x 3.81"
F1-EW2X-BW	2 Plate Economy (Unloaded) Off White	10.33" x 12.12" x 3.81"
F1-EW4X	4 Plate Economy (Unloaded) Black	12.24" x 12.12" x 3.81"
F1-EW4X-BW	4 Plate Economy (Unloaded) Off White	12.24" x 12.12" x 3.81"

FIS DELUXE WALL MOUNT ENCLOSURES

The FIS Deluxe Wall Mount has capacity for (2), (4), or (8) LGX style adapter plates depending on the size of the enclosure chosen. It features a larger splicing bay and more cable spooling brackets than the Economy version. Bridge stances and a splice tray mounting stud and nut are also included for easy installation of splice trays. The two front doors are removable to give unrestricted access during installation, and each door is also lockable with a padlock (sold separately) to provide security when in use. Accommodates QTY (2) splice trays approximately 7"L x 4"W (Ex. F1-SPL12) or 11.72"L x 4"W (Ex. F1-SPL24). Ask an FIS sales associate about pre-loading the enclosure with fiber pigtails, splice trays and adapter plates.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1-DW2X	2 Plate Deluxe (Unloaded) Black	13.16" x 14.44" x 3.06"
F1-DW2X-BW	2 Plate Deluxe (Unloaded) Off White	13.16" x 14.44" x 3.06"
F1-DW4X	4 Plate Deluxe (Unloaded) Black	13.16" x 14.44" x 3.06"
F1-DW4X-BW	4 Plate Deluxe (Unloaded) Off White	13.16" x 14.44" x 3.06"
F1-DW8X	8 Plate Deluxe (Unloaded) Black	13.16" x 14.51" x 5.60"
F1-DW8X-BW	8 Plate Deluxe (Unloaded) Off White	13.16" x 14.51" x 5.60"

FIS PATCH AND SPLICE WALL MOUNT ENCLOSURE

The FIS Patch and Splice Wall Mount enclosure is lightweight and easy to install. There is capacity for (2), (4), or (8) LGX style adapter plates depending on the size of the enclosure chosen. This unit features a lockable (lock/key included) compact housing that allows both splicing and connecting of fiber optic cables. FF-WM012 accommodates QTY (1) splice tray approximately 7"L x 4"W (Ex. F1-SPL12). FF-WM024 accommodates QTY (2) splice trays approximately 7"L x 4"W (Ex. F1-SPL12). FF-WM048 accommodates QTY (4) splice trays approximately 7"L x 4"W (Ex. F1-SPL12) or 11.72"L x 4"W (Ex. F1-SPL24).

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
FF-WM012	2 Plate Patch and Splice (Unloaded) Off White	6" x 12" x 4.5"
FF-WM012-BLK	2 Plate Patch and Splice (Unloaded) Black	6" x 14" x 4.5"
FF-WM024	4 Plate Patch and Splice (Unloaded) Off White	11" x 14" x 4.5"
FF-WM024-BLK	4 Plate Patch and Splice (Unloaded) Black	11" x 12" x 4.5"
FF-WM048	8 Plate Patch and Splice (Unloaded) Off White	16" x 20" x 6.5"
FF-WM048-BLK	8 Plate Patch and Splice (Unloaded) Black	16" x 20" x 6.5"

FIS WALL MOUNT SPLICE ENCLOSURE

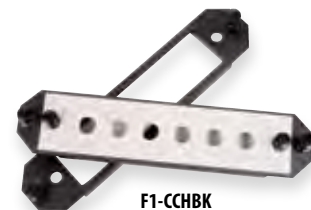
The FIS Wall Mount Splice Enclosure provides a secure splice bay for up to (12) splice trays. Cable entry and exit holes are now located on the tops and sides of the unit, and are protected by 1.25" dust-proof grommets. Both doors are removable for easy access and lockable for added security. Cable management rings are moveable within the unit and cable tie-downs are located throughout the unit. Constructed from lightweight, sturdy 16 gauge steel for easy installation. Recommended splice tray is 11.72"L x 4"W (Ex. F1-SPL24). Splice trays not included.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1-SW12T	FIS Wall Mount Splice Enclosure, 12 Trays, Top/Side Entry	17.25" x 21.25" x 4.68"

FIS UNIVERSAL MOUNTING BRACKET FOR CORNING WCH AND CCH BOXES

FIS offers a Universal Mounting Bracket that allows installers to use LGX style adapter plates in Corning WCH and CCH series closures. When original manufacturers' plates are not available, technicians can install this universal mounting bracket and utilize an LGX adapter plate.

PART #	DESCRIPTION
F1-CCHBK	Universal Mounting Bracket for Corning WCH and CCH Boxes (LGX Adapter Plate Not Included)



F1-CCHBK

LGX PLATES FOR FIS WALL & RACK MOUNT ENCLOSURES

All FIS Adapter Plates are LGX compatible. An LGX adapter plate measures 5.1" long by 1.13" wide with an on center post width of 4.64".



F1-SC6APCUL45



F1-LC24BLKSUL



F1-SC8BKSUL



F1-SC6DBKAPCUL



F1-LC6DBKMUL



F1-SC8BKAPCUL



F1-ST8BKSUL

OFF WHITE PART

OFF WHITE PART #	BLACK PART #	DESCRIPTION
F1-SC6APCUL45	F1-SC6APCBKUL45	SC 6 Pack, Loaded, Angled Plate, Singlemode, APC, Green Adapters
F1-LC6DAQUL45	F1-LC6DAQBKUL45	LC Duplex 6 Pack, Loaded, Angled Plate, Multimode, OM3, Aqua Adapters, 12 Fibers
F1-BLANKU	F1-BLANKUBK	Blank Plate, Unloaded, No Holes
F1-ST6U	F1-ST6UBK	ST 6 Pack, Unloaded
F1-ST6LMUL	F1-ST6BKMUL	ST 6 Pack, Loaded, Multimode
F1-ST6LSUL	F1-ST6BKSUL	ST 6 Pack, Loaded, Singlemode
F1-ST8U	F1-ST8UBK	ST 8 Pack, Unloaded
F1-ST8LMUL	F1-ST8BKMUL	ST 8 Pack, Loaded, Multimode
F1-ST8LSUL	F1-ST8BKSUL	ST 8 Pack, Loaded, Singlemode
F1-FC6U	F1-FC6UBK	FC 6 Pack, Unloaded
F1-FC6MUL	F1-FC6BKMUL	FC 6 Pack, Loaded, Multimode
F1-FC6SUL	F1-FC6BKSUL	FC 6 Pack, Loaded, Singlemode
F1-FC6APCUL	F1-FC6BKAPCUL	FC 6 Pack, Loaded, Singlemode, APC
F1-SC6U	F1-SC6IUBK	SC 6 Pack, Unloaded
F1-SC6MUL	F1-SC6IBKMUL	SC 6 Pack, Loaded, Multimode, Beige Adapters
F1-SC6SUL	F1-SC6IBKSUL	SC 6 Pack, Loaded, Singlemode, Blue Adapters
F1-SC6APCUL	F1-SC6IBKAPCUL	SC 6 Pack, Loaded, Singlemode, APC, Green Adapters
F1-SC8U	F1-SC8UBK	SC 8 Pack, Unloaded
F1-SC8MUL	F1-SC8BKMUL	SC 8 Pack, Loaded, Multimode, Beige Adapters
F1-SC8SUL	F1-SC8BKSUL	SC 8 Pack, Loaded, Singlemode, Blue Adapters
F1-SC8APCUL	F1-SC8BKAPCUL	SC 8 Pack, Loaded, Singlemode, APC, Green Adapters
F1-SC6DMUL	F1-SC6DBKMUL	SC Duplex 6 Pack, Loaded, Multimode, Beige Adapters, 12 Fibers
F1-SC6DAQUL	F1-SC6DAQBKUL	SC Duplex 6 Pack, Loaded, Multimode, OM3, Aqua Adapters, 12 Fibers
F1-SC6DSUL	F1-SC6DBKSUL	SC Duplex 6 Pack, Loaded, Singlemode, Blue Adapters, 12 Fibers
F1-SC6DAPCUL	F1-SC6DBKAPCUL	SC Duplex 6 Pack, Loaded, Singlemode, APC, Green Adapters, 12 Fibers
F1-DSC6U	F1-DSC6IUBK	SC Duplex 6 Pack, Unloaded
F1-LC6DMUL	F1-LC6DBKMUL	LC Duplex 6 Pack, Loaded, Multimode, Beige Adapters, 12 Fibers, Square Adapter
F1-LC6DSUL	F1-LC6DBKSUL	LC Duplex 6 Pack, Loaded, Singlemode, Blue Adapters, 12 Fibers, Square Adapter
F1-LC6DAPCUL	F1-LC6DBKAPCUL	LC Duplex 6 Pack, Loaded, Singlemode, APC, Green Adapters, 12 Fibers
F1-LC6DAQUL	F1-LC6DBKAQUL	LC Duplex 6 Pack, Loaded, Multimode, OM3, Aqua Adapters, 12 Fibers
F1-LC24MUL	F1-LC24BLKMUL	LC Quad 6 Pack, Loaded, Multimode, Beige Adapters, 24 Fibers
F1-LC24AQUL	F1-LC24AQBKUL	LC Quad 6 Pack, Loaded, Multimode, OM3, Aqua Adapters, 24 Fibers
F1-LC24SUL	F1-LC24BLKSUL	LC Quad 6 Pack, Loaded, Singlemode, Blue Adapters, 24 Fibers
F1-LC6U	F1-LC6UBK	LC Duplex 6 Pack, Unloaded, Square Adapters Only
F1-MTP6MUL	F1-MTP6BKMUL	MTP 6 Pack, Loaded, MM, Black Adapters, Style A (Key Up-Key Down)
F1-MTP6SUL	F1-MTP6BKSUL	MTP 6 Pack, Loaded, SM, Green Adapters, Style A (Key Up-Key Down)

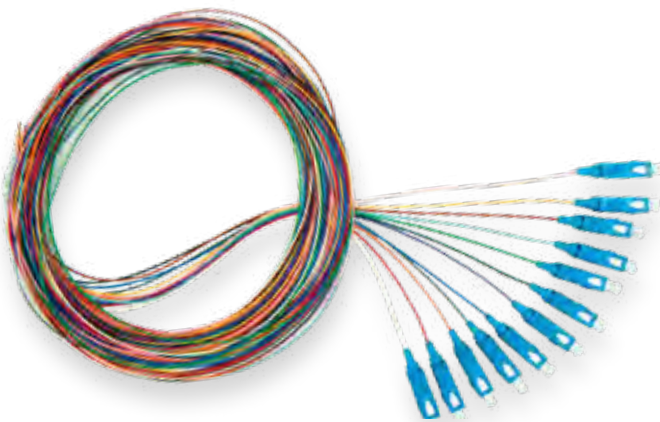
Pre-Loaded Rack / Wall Mount Configurator

BUILD RACK / WALL MOUNTS SPECIFICALLY FOR YOUR NETWORK

CLOSURE TYPE	PORTS	COLOR	ADAPTER	FIBER TYPE	STYLE	FIBER LENGTH (IN METERS)	SPLICE TRAY	SPLICE
WM	036	X	LC	SM	T9	2	12	F
WM=Wall Mount RM=Rack Mount Slide RS=Patch & Splice Rack RMS=Rack Mount Swing RF=Rack Mount Flush	006= 6 Ports 012=12 Ports 024=24 Ports 036=36 Ports 048=48 Ports 072=72 Ports 096=96 Ports 144=144 Ports 288=288 Ports	X=Off White B=Black	SC=SC SCA=SC/APC DSC= Duplex SC DSCA=Duplex SC/APC LC= Duplex LC LCA= Duplex LC/APC QLC= Quad LC QLCA= Quad LC/APC FC=FC FCA=FC/APC ST=ST STA=ST/APC MJ=MTRJ MT=MTP/MPO	SM=9/125 OM1=62.5/125 OM2=50/125 OM3=50/125 (10G/300m) OM4=50/125 (10G/550m)	T9=900µm pigtail T3=3mm pigtail MD=Module / Cassette MP=Multi-Fiber pigtail		12=12 Fiber Position 24=24 Fiber Position	F=Single Fusion M=Mech. Splice R=Ribbon Fusion

Part # Example:
F1-WM-036-X-LC-SM-T9-02-12-F

Translates to:
Wall Mount, 36 Ports, Off White, LC Singlemode Duplex, 900µm Pigtail, 2 Meters, 12 Fiber Splice Tray, Single Fusion



SP-12SCUPC-BU

900UM FIBER PIGTAILS - 6 AND 12 PACKS

These 900µm Tight Buffer pigtails are designed for high fiber count splicing applications and are color coded to TIA-598-A industry standards for ease of use. Pigtails are available in Singlemode or Multimode, 6-packs or 12-packs, and your choice of connectors. All pigtails feature low insertion loss, low back reflection and are made with Corning® fiber. Standard length of 3 meters.

PART #	DESCRIPTION
SP-6SCUPC-BU	6 Fiber SC/UPC 900µm Style Pigtail, SM, Blue Boots
SP-12SCUPC-BU	12 Fiber SC/UPC 900µm Style Pigtail, SM, Blue Boots
SP-6SCAPC-GR	6 Fiber SC/APC 900µm Style Pigtail, SM, Green Boots
SP-12SCAPC-GR	12 Fiber SC/APC 900µm Style Pigtail, SM, Green Boots
SP-12SCMM-BG	12 Fiber SC/PC 900µm Style Pigtail, MM 62.5µm, Beige Boots
SP-12SCMM50-BLK	12 Fiber SC/PC 900µm Style Pigtail, MM 50µm, Black Boots
SP-12SCMM50G-AQ	12 Fiber SC/PC 900µm Style Pigtail, OM3 MM 50µm, Aqua Boots
SP-6LCUPC-BU	6 Fiber LC/UPC 900µm Style Pigtail, SM, Blue Boots
SP-12LCUPC-BU	12 Fiber LC/UPC 900µm Style Pigtail, SM, Blue Boots
SP-6LCMM50-BLK	6 Fiber LC/PC 900µm Style Pigtail, MM 50µm, Black Boots
SP-6LCMM50G-AQ	6 Fiber LC/PC 900µm Style Pigtail, OM3 MM 50µm, Aqua Boots
SP-12LCMM50-BLK	12 Fiber LC/PC 900µm Style Pigtail, MM 50µm, Black Boots
SP-12LCMM50G-AQ	12 Fiber LC/PC 900µm Style Pigtail, OM3 MM 50µm, Aqua Boots

ST / FC Pigtails Available



DS-P12LCUPC-BU

DISTRIBUTION FIBER PIGTAILS - 6 AND 12 PACKS

These Distribution fiber pigtails feature a durable outer jacket ensuring strength and protection during installations. The distribution fiber fans out into 900µm tight buffered fibers, color coded to TIA-598-A industry standards. These pigtails are available in Singlemode or Multimode, 6-packs or 12-packs, and your choice of connectors. All pigtails feature low insertion loss, low back reflection and are made with Corning® fiber. Standard length of 3 meters: 1 meter 900µm 'fan out' and 2 meter distribution 'tail'.

PART #	DESCRIPTION
DS-P6SCUPC-BU	6 Fiber SC/UPC Distribution Style Pigtail, SM, Blue Boots
DS-P12SCUPC-BU	12 Fiber SC/UPC Distribution Style Pigtail, SM, Blue Boots
DS-P12SCAPC-GR	12 Fiber SC/APC Distribution Style Pigtail, SM, Green Boots
DS-P12LCUPC-BU	12 Fiber LC/UPC Distribution Style Pigtail, SM, Blue Boots
DS-P6LCAPC-GR	6 Fiber LC/APC Distribution Style Pigtail, SM, Green Boots
DS-P12LCAPC-GR	12 Fiber LC/APC Distribution Style Pigtail, SM, Green Boots
DS-P12SCMM50G-AQ	12 Fiber SC/UPC Distribution Style Pigtail, MM, 50µm, OM3 Aqua Boots
DS-P12LCMM50G-AQ	12 Fiber LC/UPC Distribution Style Pigtail, MM, 50µm, OM3 Aqua Boots

62.5µm(OM1), 50µm(OM2, OM3, OM4) Multimode Pigtails Available

SINGLEMODE RIBBON FAN-OUT PACKS

These Ribbon fiber pigtails fan out into 900µm tight buffered fibers, color coded to TIA-598-A industry standards. Applications include terminating ribbon fiber to patch panels and enclosures, as well as V-Groove and array applications. All fan out kits feature low insertion loss, low back reflection and are made with Corning® fiber. Standard length of 3 meters: 1 meter 900µm 'fan out' and 2 meter ribbon 'tail'.

PART #	DESCRIPTION
RF-3-BU-P-S-3-FIS-12	SM, SC/UPC - Pigtail, 3 Meters 36" Fan-out, 2 Meter Tail, 12 Fiber
RF-3-BA-P-S-3-FIS-12	SM, SC/APC - Pigtail, 3 Meters 36" Fan-out, 2 Meter Tail, 12 Fiber
RF-3-AU-P-S-3-FIS-12	SM, FC/UPC - Pigtail, 3 Meters 36" Fan-out, 2 Meter Tail, 12 Fiber
RF-3-AA-P-S-3-FIS-12	SM, FC/APC - Pigtail, 3 Meters 36" Fan-out, 2 Meter Tail, 12 Fiber

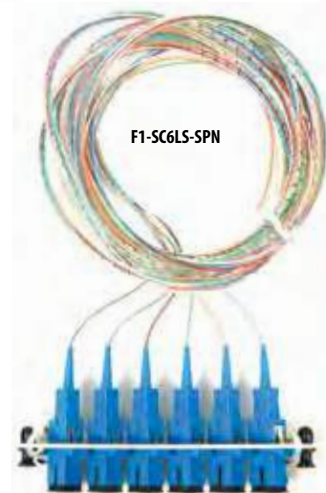
FIS SNAP PACKS™

These pre-terminated "Snap Pack" adapter panels provide convenience to technicians splicing into fiber distribution frames. Adapter panels are LGX compatible and can be ordered in a black or off white color. Available in 6 or 12 fiber bundles and color coded to TIA-598-A industry standards, these fiber bundles provide cable management from patch panels to splice bays. **Custom lengths and various connector styles are available, contact your FIS sales associate for more information.**

PART # (Off White)	PART # (Black)	DESCRIPTION
F1-SC6LS-SPN	F1-SC6LS-SPN-BLK	(6) Adapters, SC/UPC, 6 Fiber Pigtail, Singlemode, 3 Meters
F1-DSC6LS-SPN	F1-DSC6LS-SPN-BLK	(6) Duplex Adapters, SC/UPC, 12 Fiber Pigtail, Singlemode, 3 Meters
F1-SC6APC-SPN	F1-SC6APC-SPN-BLK	(6) Adapters, SC/APC, 6 Fiber Pigtail, Singlemode 3 Meters
F1-LC6DL-SPN	F1-LC6DL-SPN-BLK	(6) Duplex Adapters, LC/UPC, 12 Fiber Pigtail, Singlemode, 3 Meters
F1-DSC6LM-SPN	F1-DSC6LM-SPN-BLK	(6) Duplex Adapters, SC, 12 Fiber Pigtail, 62.5/125µm OM1, 3 Meters
F1-ST6LM-SPN	F1-ST6LM-SPN-BLK	(6) Adapters, ST, 6 Fiber Pigtail, 62.5/125µm OM1, 3 Meters
F1-ST6LS-SPN	F1-ST6LS-SPN-BLK	(6) Adapters, ST, 6 Fiber Pigtail, Singlemode, 3 Meters
F1-SC6LM-SPN	F1-SC6LM-SPN-BLK	(6) Adapters, SC/PC 6 Fiber Pigtails, 62.5/125µm, 3 Meters
F1-DSC6LM50-SPN	F1-DSC6LM50-SPN-BLK	(6) Adapters, SC/PC 6 Fiber Pigtails, 50/125µm, 3 Meters
F1-DSC6LM50G-SPN	F1-DSC6LM50G-SPN-BLK	(6) Adapters, SC/PC 6 Fiber Pigtails, 50/125µm OM3 10G, 3 Meters
F1-DSC61APC-SPN	F1-DSC61APC-SPN-BLK	(6) Duplex Adapters, SC/APC 12 Fiber Pigtails, Singlemode, 3 Meters
F1-LC6DLM-SPN	F1-LC6DLM-SPN-BLK	(6) Duplex Adapters, SC/PC 12 Fiber Pigtails, 50/125µm, 3 Meters
F1-LC6DLM50-SPN	F1-LC6DLM50-SPN-BLK	(6) Duplex Adapters, SC/PC 12 Fiber Pigtails, 50/125µm OM3 10G, 3 Meters
F1-LC6DLM50G-SPN	F1-LC6DLM50G-SPN-BLK	(6) Duplex Adapters, LC/PC 12 Fiber Pigtails, 50/125µm, 3 Meters
F1-LC6DLM50G-SPN	F1-LC6DLM50G-SPN-BLK	(6) Duplex Adapters, LC/PC 12 Fiber Pigtails, OM3 10G, 3 Meters
F1-LC6QDAPC-SPN	F1-LC6QDAPC-SPN-BLK	(6) Quad Adapters, LC/APC, 24 Fiber Pigtails, Singlemode, 3 Meters



RF-3-BU-P-S-3-FIS-12



F1-SC6LS-SPN

Fan-out / Breakout / Furcation Kits

FIS BUFFER TUBE/RIBBON FAN-OUT KITS (4, 6, 12 Fiber)

FIS Fan-Out Kits are designed for a simple and easy breakout from standard Buffer Tubes or Ribbon Cables. The kits are pre-configured for 4, 6 and 12 fiber applications with 25" and 36" lengths of 900µm Hytrel tubing in the appropriate industry-standard color code. FIS Fan-Out Kits have a unique snap-together design that offers the ability to unsnap the unit for reentry if necessary. Each kit comes with the adapters that accommodate round cable configurations, such as Buffer Tubes and Ribbon Cables. This cost-saving feature allows you to cover your application possibilities with just one style.

PART #	DESCRIPTION
F1-BF0425M	4 Fiber (25" Tubing) Accepts 250µm
F1-BF0625M	6 Fiber (25" Tubing) Accepts 250µm
F1-BF1225M	12 Fiber (25" Tubing) Accepts 250µm
F1-BF0436M	4 Fiber (36" Tubing) Accepts 250µm
F1-BF0636M	6 Fiber (36" Tubing) Accepts 250µm
F1-BF1236M	12 Fiber (36" Tubing) Accepts 250µm

FIS BUFFER TUBE/RIBBON FAN-OUT KITS (24 Fiber)

FIS Fan-Out Kits are designed for a simple and easy breakout from standard Buffer Tubes or Ribbon Cables. The kits are pre-configured for 24 fiber applications with 25" and 36" lengths of 900µm Hytrel tubing in the appropriate industry standard color code. (4 Fiber, 6 Fiber and 12 Fiber Kits are also available) FIS Fan-Out Kits have a unique snap together design that offers the ability to unsnap the unit for re-entry if necessary. Each kit comes with the adapters that accommodate round cable configurations, such as Buffer Tubes and Ribbon Cables. This cost saving feature allows you to cover your application possibilities with just one style breakout kit.

PART #	DESCRIPTION
F1-BF2425M	24 Fiber (25" Tubing) Accepts 250µm
F1-BF2436M	24 Fiber (36" Tubing) Accepts 250µm

FIS COLOR CODED BREAKOUT KITS (Custom Colors Available.)

The FIS 2mm and 3mm Breakout Kits are designed for the quick and simple termination of distribution cables. Color coded tubing eliminates the need for marking individual fiber ends, as your cable will be color coded to TIA/EIA standards.

PART #	DESCRIPTION
F1-BOK0640-20M	2mm, 6 Fiber (40" Tubing) Accepts 900µm
F1-BOK1240-20M	2mm, 12 Fiber (40" Tubing) Accepts 900µm
F1-BOK0640MA	2mm, 6 Fiber (40" Tubing) Accepts 900µm - Aqua (All Furcation is color Aqua with use of numbers on each leg)
F1-BOK1240MA	2mm, 12 Fiber (40" Tubing) Accepts 900µm - Aqua (All Furcation is color Aqua with use of numbers on each leg)
F1-BOK0640M	3mm, 6 Fiber (40" Tubing) Accepts 900µm
F1-BOK1240M	3mm, 12 Fiber (40" Tubing) Accepts 900µm
F1-BOK0640M250	3mm, 6 Fiber Colored Coded, Accepts 250µm
F1-BOK1240M250	3mm 12 Fiber Colored Coded, Accepts 250µm



Connectorized 24 Fiber Fan-out Assembly Shown





RACKADP19



RACKADP23

19" FLUSH MOUNT ADAPTER BRACKETS

Use these 19" Flush Mount Adapter Brackets to adjust the orientation of FIS enclosures. When installed, these brackets move the enclosure 3.5" back in the rack, so the front of the enclosure sits flush against the rack opening. Compatible with FIS rack mount enclosures.

PART #	DESCRIPTION
1RURACKADP19FLUSH	1RU 19" Flush Mount Rack Adapter, Black
1RURACKADP19FLUSHBW	1RU 19" Flush Mount Rack Adapter, Off White
2RURACKADP19FLUSH	2RU 19" Flush Mount Rack Adapter, Black
2RURACKADP19FLUSHBW	2RU 19" Flush Mount Rack Adapter, Off White
4RURACKADP19FLUSH	4RU 19" Flush Mount Rack Adapter, Black
4RURACKADP19FLUSHBW	4RU 19" Flush Mount Rack Adapter, Off White

23" MOUNTING BRACKETS

Use these 23" Mounting Brackets to adapt enclosures to fit in a 23" wide rack. Compatible with FIS rack mount enclosures, select the appropriate size for the enclosure. Two 4RU sets are required for the 8RU rack mount enclosure.

PART #	DESCRIPTION
1RURACKADP23	1RU 23" Rack Adapter, Black
1RURACKADP23BW	1RU 23" Rack Adapter, Off White
2RURACKADP23	2RU 23" Rack Adapter Black,
2RURACKADP23BW	2RU 23" Rack Adapter, Off White
2RURACKADP23FLUSH	2RU 23" Flush Mount Rack Adapter, Black
2RURACKADP23FLUSHBW	2RU 23" Flush Mount Rack Adapter, Off White
4RURACKADP23	4RU 23" Rack Mounting Bracket, Black
4RURACKADP23BW	4RU 23" Rack Mounting Bracket, Off White



FIS Custom Manufactured Interconnects

Complete fiber optic solutions, right out of the box.

Custom
Designed
Interconnects

OEM
Printing and
Decals

Unique
Color Options

Pre-Installed
Fiber Optic
Components

Cold Rolled Steel,
Stainless Steel or
Aluminum



FIS is proud to offer fiber optic Interconnects that are both engineered and "Made in the USA".





ZEUS FIBER MANAGEMENT CENTER

36"(h) x 27"(w) x 14"(d)

Environmentally sealed front door, Padlock style security latches and wind stop

Four cable entry ports with liquid tight sealing grommets and internal strain relief brackets

Built-in cable management brackets

Pad Mount Skirt features Front and Rear removable panels



NEW

Zeus Mini Fiber Management Center

Pole, Pad, or Wall Mounted - up to 144 SC/APC ports - Half the size

24.71"(h) x 27"(w) x 14"(d)

All modules built with individual swingout panels to allow for easy rear access.

MOUNT TYPE	FIBER (INPUT)	STYLE	CONNECTOR	FEEDER LENGTH (ft)	FEEDER CABLE TYPE	NUMBER OF PORTS	DISTRIBUTION CABLE TYPE	DISTRIBUTION CABLE LENGTH	CONNECTOR	NUMBER OF DISTRIBUTION CABLES
A	24	0	3	50	LTD	144	LTD	100	3	1
A = Pad	24	I = Connectorized (No Trays)	2 = SC UPC	50	R = Ribbon	144	R = Ribbon	50	2 = SC UPC	1
B = Pole	48	O = No Feeder (With Trays)	3 = SC APC	100	LTD = Loose Tube	288	LTD = Loose Tube	100	3 = SC APC	2
C = Wall	72		4 = LC UPC	150	LTA = Loose Tube Armor	432	LTA = Loose Tube Armor	150	4 = LC UPC	3
D = Mini Pole	96		5 = LC APC	200		576		200	5 = LC APC	4
E = Mini Pad										

Part # Example: ZA-24 -I-3-100-LTD-288-LTD-100-3-2

Translates to: Pad Mount, 24 Fiber (Input), Feeder (No Trays), SC / A Connector, 100 ft Feeder Length, Loose Tube Feeder Cable, 288 Ports, Loose Tube Distribution Cable, 100 ft Distribution Cable Length, SC / A Connector, (2) Distribution Cables

ZEUS Fiber Management Center

Accommodates up to 12 LGX Splitter Modules.

(Also in LC Connector Configurations)

SPLITTER MODULES, LGX FOOTPRINT

PART #	DESCRIPTION
Z104LGXSCA2	1x4 LGX Module w/ 2 Meter SC/APC leads
Z108LGXSCA2	1x8 LGX Module w/ 2 Meter SC/APC leads
Z116LGXSCA2	1x16 LGX Module w/ 2 Meter SC/APC leads
Z132LGXSCA2	1x32 LGX Module w/ 2 Meter SC/APC leads

FILL YOUR CABINETS



Z132LGXSCA2

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Consulting and
Design Services

Drive Your Business Forward with Zeus FTTx Product Offerings!



F1-62DW-2

F1-62DW-3

FIS FIBER OPTIC NID TERMINATION BOX

FIS Wall Mount Fiber Optic NID Terminal Box is designed to provide protection for fiber optic connectors and splices in indoor or outdoor environments (IP65 Rated). The enclosure has a built in, swing-out mini splice tray plus a bulkhead panel with SC cutout ports. 2 or 3 Cable access ports with built in weather-tight grommets allow for easy cable installation. **Adapters not included.**

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1-62DW-2	FIS NID Termination Box (For 2 Simplex SC or 2 Duplex LC Connections) 2 Entry Ports	8.2" x 6" x 2"
F1-62DW-3	FIS NID Termination Box (For 6 Duplex SC or 6 LC Quad Connections) 3 Entry Ports	10.2" x 7" x 2"

CUSTOM
LENGTHS AND
PIGTAILS
AVAILABLE



Z1MDUSMDFYAYA31

MDU SIMPLEX DROP FIBER

Zeus presents: MDU Drop Fiber: The FIS MDU Drop fiber is composed of 1 fiber Corning ClearCurve® ZBL Indoor / Outdoor Riser cable, terminated with (1) SC/APC Green Connector, and spooled on a 7 inch spool. Available in either white or black cable jacket.

PART #	DESCRIPTION
Z1MDUSMDFYAYA31	MDU White Drop Cable SC/APC - SC/APC 31 meters(100ft) on small hand reel
Z1MDUSMDFYAYA61	MDU White Drop Cable SC/APC - SC/APC 61 meters(200ft) on small hand reel
Z1MDUSMDFYAYA92	MDU White Drop Cable SC/APC - SC/APC 92 meters(300ft) on small hand reel
Z1MDUSMDFYAYA153	MDU White Drop Cable SC/APC - SC/APC 153 meters(500ft) on small hand reel

NEW



S09FD02CZEBLG

FIS ALL DIELECTRIC FLAT DROP CABLE

FIS is happy to offer all dielectric flat drop cable for Fiber to the Premise applications. This durable design incorporates two dielectric rigid rods for optimal tensile strength and crush protection.

PART #	FIBER COUNT	DESCRIPTION
S09FD02CZEBLG	2	SM SMF28 Ultra Gel Flat Drop Cable PE Black
S09FD02CZEBL	2	SM SMF28 Ultra Dry Flat Drop Cable PE Black
S09FD06CZEBL	6	SM SMF28 Ultra Dry Flat Drop Cable PE Black
S09FD12CZEBL	12	SM SMF28 Ultra Dry Flat Drop Cable PE Black

NEW



FIS H-IP CONNECTOR ASSEMBLIES

FIS now offers an Outdoor Rated H-IP Connector that is fully compatible with Optitap® Solutions.
Please call for Custom Assembly prices.

NEW



FIS FTTx TEST KIT

The FTTx Kit provides a cost effective selection of test sets (PON Power Meter and FIS' Fiber Ranger) and optical cleaning supplies to ensure that each termination meets specifications.

PART #	DESCRIPTION
F1-PPMFRKIT	PON Meter, Fiber Ranger, Fiber Test Leads, Connect-O-Clean ferrule push cleaner (includes 2.5mm and 1.25mm versions), 2 oz. of Fiber Optic cleaning solution (water based), Dry wipes (100), Ferrule cleaning sticks (2.5mm & 1.25mm versions), 2- SC/APC female adapters, 2 meter SC/APC-SC/APC standard patch cord, 2 meter SC/APC ruggedized weatherproof connector patch cord

FIS OUTDOOR POLYCARBONATE FIBER ENCLOSURES

- OSP protected with special gasketing
- Polycarbonate, UV-Resistant
- Up to 96 port capacity
- Special protection tubes and bend radian for protecting the incoming fiber from bending and guiding the fibers to the specially designed splice cassettes in a professional way
- 100% Compatible to Bellcore GR-326 standards
- LC Duplex and SC Simplex Adaptors can be installed inside

**Inquire with Sales
about pre loaded
enclosure for quicker
installation.**

FIS 300 SERIES ENCLOSURE

The 300 series is a small outdoor box with IP65 rating. It features (2) inlets at the bottom of enclosure, cable management and accommodates (4) SC simplex adapters or LC duplex adapters for terminating up to 8 fibers.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	WEIGHT
F1-300	OSP Enclosure, up to 8 fibers (LC) with splicing/cable management	7" x 6.5" x 1.7"	.74lbs(.34kg)

FIS 400 SERIES ENCLOSURE

The 400 series termination box is IP65 rated and made with polycarbonate for UV-Resistance. Accommodates (12) SC simplex adapters or duplex LC adapters for up to 24 fibers. Splices can be stored behind adapter panel and cable management is located on back of enclosure. (3) inlets provided on bottom with gasketed ports.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	WEIGHT
F1-400	OSP Enclosure, up to 24 fibers (LC) with splicing/cable management	7.8" x 7.8" x 1.9"	1.1lbs(.52kg)
F1-400SCAPC6	MDU box loaded with 6 SC/APC Pigtail	7.8" x 7.8" x 1.9"	NA
F1-4001X4SCAPC	MDU box loaded with 1x4 PLC splitter SC/APC Pigtail	7.8" x 7.8" x 1.9"	NA
F1-4001X8SCAPC	MDU box loaded with 1x8 PLC splitter SC/APC Pigtail	7.8" x 7.8" x 1.9"	NA

FIS 700 SERIES ENCLOSURE

The 700 series is manufactured for outside environments with IP54 rating and special gasketing. Has (2) cable inlet ports on each side and up to 5 drop cable ports in center. Made of UV-resistant polycarbonate. 24 simplex SC cutouts in panel, accept SC Simplex, MTP/MPO as well as LC Duplex adapters for capacity of 24 or 48(LC) fibers. Fusion splice tray included.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	WEIGHT
F1-700	OSP Enclosure, up to 48 fiber (LC) with splicing/cable management	10.7" x 9.25" x 3.3"	1.7lbs (.78kg)
F1-7001X2SCAPC	MDU box loaded with 1x2 PLC splitter SC/APC Pigtail	10.7" x 9.25" x 3.3"	NA
F1-7001X4SCAPC	MDU box loaded with 1x4 PLC splitter SC/APC Pigtail	10.7" x 9.25" x 3.3"	NA
F1-7001X8SCAPC	MDU box loaded with 1x8 PLC splitter SC/APC Pigtail	10.7" x 9.25" x 3.3"	NA
F1-7001X16SCAPC	MDU box loaded with 1x16 PLC splitter SC/APC Pigtail	10.7" x 9.25" x 3.3"	NA

FIS 800 SERIES ENCLOSURE

The 800 series has 16 outlet ports for drop cables and 2 inlet ports. Made of UV-resistant polycarbonate. IP54 protected with special gasketing. Easy side latching system with lockable door. (16) simplex SC cutouts on panel accommodating (16) SC or MTP/MPO adapters or (32) LC connectors using duplex mating adapters. Also install PLC splitters inside enclosure for PONs.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	WEIGHT
F1-800	OSP Enclosure, up to 32 fiber (LC) with splicing/cable management	14.7" x 9.3" x 3.9"	2.4lbs(1.1kg)
F1-8001X8SCAPC	MDU box loaded with 1x8 PLC splitter SC/APC Pigtail	14.7" x 9.3" x 3.9"	NA
F1-8001X16SCAPC	MDU box loaded with 1x16 PLC splitter SC/APC Pigtail	14.7" x 9.3" x 3.9"	NA

FIS 600 SERIES ENCLOSURE

The 600 series is designed for harsh environments with IP65 rating and gasket seal on the door. The polycarbonate is UV resistant. Comes with standard interconnect panel with duplex SC cutouts. Install SC duplex, MPO/MTP, or LC quad mating sleeves/adapters to accept up to 48 or 96 fibers. Splice Trays are included and mounted on the back wall behind the hinged adapter panels. Some cable management accessories included as well as grounding screw.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	WEIGHT
F1-600	OSP Enclosure, up to 96 fiber (LC) with splicing/cable management	16.5" x 13.4" x 5.1"	2.8lbs(1.3kg)
F1-6001X16SCAPC	MDU box loaded with 1x16 PLC splitter SC/APC Pigtail	16.5" x 13.4" x 5.1"	NA
F1-6001X32SCAPC	MDU box loaded with 1x32 PLC splitter SC/APC Pigtail	16.5" x 13.4" x 5.1"	NA



F1-300

***Adapters Sold Separately
*All splice trays included in each enclosure**



F1-400

***Adapters Sold Separately
*All splice trays included in each enclosure**



F1-700

***Adapters Sold Separately
*All splice trays included in each enclosure**



F1-800

***Adapters Sold Separately
*All splice trays included in each enclosure**



F1-600

***Adapters Sold Separately
*All splice trays included in each enclosure**

F1-DTESCA-24612


FIS FIBER DISTRIBUTION ENCLOSURE (Strand Mount Only)

With easy access to front loaded with 16 SC/APC adapters separate rear access equipped with one 24ct splice tray and room for cable management.

PART #	DESCRIPTION
F1-DTESCA-24612	Aerial Strand Mount only - 1-16 SC/APC Drop Adapters (1) 24ct Splice Tray (1) 12CT Pigtail (1) 6CT Pigtail - SC/APC Ends - All Grommets included for 12-144 Fiber Counts

FIS INLINE HINGED ENCLOSURE

This hinged closure is designed to manage fiber splices with ease of maintenance for installers. Its versatility and durability allow direct buried, underground and aerial applications. It offers a simple re-entry system with a boltless mechanism that does not require an electric hand tool. Four splice trays included.

PART #	DESCRIPTION	DIMENSIONS (LxWxH)
F1-ZOFC-B1	FIS Inline Enclosure - (6) cable ports, (4) splice trays, Accessory Kit	13"x 7.5"x 4"
P11-B3-202F	8 Hole 3mm O.D. Cable Grommet	
P11-B4-202G	2 Hole 8mm O.D. Cable Grommet	
P11-G1-202A	4 Hole 3mm O.D. Cable Grommet	
P11-G1-202K	12-17mm, Main O.D. Cable Grommet	
P11-G1-202R	8-12mm, Main O.D. Cable Grommet	
P11-G1-202P	Pre-Connectorized Cable Grommet	
P11-G1-1031	Bracket "B"	

*Accessory Kit: insulation tape, grease, cable ties, protective tubing, grommets

FIS FIBER OPTIC SPLICE CLOSURE

This FIS Outside Plant Direct Burial Closure offers the perfect choice for low fiber count distribution applications involving butt and inline installations. The compact size and rugged design allow the closure to be deployed in below grade, aerial and buried installations. Dimensions: 21" L x 8" W x 4" H Weight: 9lbs.

- 4 Entry Ports
- Accepts cables from 10mm - 22mm diameter
- Can be configured for butt or in-line applications
- (1) Integrated splice tray included
- Permanent waterproof sealing requires no re-entry kit
- IP rating: 66 (Equal to NEMA 4 and 4X)
- Direct Burial or Aerial applications

PART #	DESCRIPTION
F1-OSPDBC24	FIS Fiber Optic Splice Closure - 24 Fiber
F1-OSPDBC48	FIS Fiber Optic Splice Closure - 48 Fiber
F1-OSPTRAY	Splice Tray 12 but expandable to 24 Fiber For F1-OSPDBC-XX Closures

F1-ZOFC-B1

F1-OSPDBC48

F1-OSPDBC24

F1-6707BLKF
F1-SPL12
F1-SPL24

F1-6808

FIS ALUMINUM SPLICE TRAYS

The FIS aluminum splice trays are compact, lightweight, and available with a variety of splice holding chips and cover options. All trays are pre-configured for standard heat shrink fusion splices unless otherwise stated. Any stocked splice holder chip can be pre-loaded into this splice tray. Each splice tray features a mounting hole to fasten the tray down using a mounting stud and nut. Self adhesive Velcro dots are included with F1-SPL12, F1-SPL24 and F1-6707 to secure the tray in place.

PART #	DESCRIPTION
F1-SPL12	Aluminum Splice Tray, 12 Position, Fusion Splice Chip, Rigid (6.5"L x 4.68"W x .42"H)
F1-SPL24	Aluminum Splice Tray, 24 Position, Fusion Splice Chip, Rigid (11.72"L x 3.99"W x .41"H)
F1-SPL24-8.5	Aluminum Splice Tray, 24 Position (8.5"L x 5"W x .42"H)
F1-8735C	Aluminum Splice Tray, 12 Position, Clear Plastic Cover, Fusion Splice Chip, Rigid (7.13"L x 4.13"W x .38"H)
F1-8729G	Aluminum Splice Tray, 12 Position, Clear Plastic Cover, Fusion Splice Chip, Rigid (11.75"L x 4"W x .38"H)
F1-6707BLKF	Aluminum Splice Tray, 12 Position, Fusion Splice Chip, Soft (7.5"L x 4"W x .63"H)
F1-6707BLKM	Aluminum Splice Tray, 12 Position, Mechanical Splice Chip, Soft (7.5"L x 4"W x .63"H)
F1-6707BLKR	Aluminum Splice Tray, 12 Position, Bare Fiber Splice Chip, Rigid (7.5"L x 4"W x .63"H)
F1-6707BLKH	Aluminum Splice Tray, 6 Position, Fusion Splice Chip, Rigid (7.5"L x 4"W x .63"H)

FIS PLASTIC SPLICE TRAYS

The FIS Splice Tray is injection molded using UL94 fire retardant material. The tray is designed to fit in most splice closures and can accommodate 12 fusion, mechanical, or bare fiber splices. Any stocked splice holder chip can be pre-loaded into this splice tray. Features include: Fiber routing molded into the tray, fiber tie down holes, snap or slide together construction, designation label, self adhesive Velcro dots to secure the tray in place, and nylon cable tie wraps.

PART #	DESCRIPTION	DIMENSIONS (LxWxH)
F1-6808	Plastic Splice Tray, 12 Position, Fusion Splice Chip, Rigid	7.1" x 4.25" x .48"
F1-6808M	Plastic Splice Tray, 12 Position, Mechanical Splice Chip, Soft	7.1" x 4.25" x .48"
F1-6808BA	Plastic Splice Tray, 12 Position, Bare Fiber Fusion Splice Chip, Rigid	7.1" x 4.25" x .48"

High Density Breakout Cassettes and Enclosures

The High Density Breakout Cassette provides 'plug and play' solutions for data center infrastructure and similar high density applications. It offers a secure patch or breakout point from multi-fiber MPO trunk cables to duplex LC patch cables. This modular platform provides a convenient, rapid deployment solution when installing MPO trunk cables and breakout positions within a network. Accommodates a total of 96 or 144 fibers loaded into the matching 1RU enclosure. Both 3X and 4X 1RU enclosures are designed to fit into standard 19" racks. Mounting adapter brackets extend out past the front and back of the enclosure to assist with incoming fiber management. Both front and rear doors are easily removable and provide uninhibited access to the cassette's fiber connections.

Part Number Configurator

MODULE STYLE	FIBER COUNT	FIBER TYPE	Rear connector (MPO/MTP)	FERRULE QUALITY	FRONT CONNECTOR	POLARITY
F1HDMTP	48	OS2	MT12	E	LU	A
F1HDMTP = 3X HD Cassette F1SHD = 4X SHD Cassette	24 = 24 Fibers 48 = 48 Fibers	OM3 = 50µm OM3, MM OM4 = 50µm OM4, MM OS2 = 9µm OS2, SM	MT12 = MPO 12 Fiber Male MF12 = MPO 12 Fiber Female MF12 = MPO 24 Fiber Male MF24 = MPO 24 Fiber Female	E = Elite	L = LC/PC (Aqua or Magenta) LU = LC/UPC (Blue) LA = LC/APC (Green)	A = Type A B = Type B

Part # Example: F1HDMTP-48-OS2-MT12-E-LU-A

3X HD Breakout Cassette, 48 Fiber, 9µm OS2 SM, (4) 12F Elite MPO/Male to (24) Duplex LC/UPC Blue, Polarity Type A



3X HD ENCLOSURE

PART #	DESCRIPTION
F1RM1RU3XHD	1RU Rack Mount, 3X HD Cassette Enclosure, Unloaded, Off-White, Empty

3X HD CASSETTES

PART #	DESCRIPTION
F1HDMTP48OM3MT12ELA	3X HD Cassette, 48 Fiber, OM3, (24) Duplex LC/PC to (4) 12F MPO Male, Polarity Type A
F1HDMTP48OM4MT12ELA	3X HD Cassette, 48 Fiber, OM4, (24) Duplex LC/PC to (4) 12F MPO Male, Polarity Type A
F1HDMTP48OS2MT12ELUA	3X HD Cassette, 48 Fiber, SM, (24) Duplex LC/UPC to (4) 12F MPO Male, Polarity Type A
F1HDMTP48OS2MT12ELAA	3X HD Cassette, 48 Fiber, SM, (24) Duplex LC/APC to (4) 12F MPO Male, Polarity Type A
F1HDMTP48OM3MT12ELB	3X HD Cassette, 48 Fiber, OM3, (24) Duplex LC/PC to (4) 12F MPO Male, Polarity Type B
F1HDMTP48OM4MT12ELB	3X HD Cassette, 48 Fiber, OM4, (24) Duplex LC/PC to (4) 12F MPO Male, Polarity Type B



4X SHD ENCLOSURE

PART #	DESCRIPTION
F1RM1RU4XHD	1RU Rack Mount, 4X SHD Cassette Enclosure, Unloaded, Black

4X SHD CASSETTES

PART #	DESCRIPTION
F1SHD24OS2MT24ELUA	4X SHD Cassette, 24 Fiber, SM, (12) Duplex LC/UPC to (1) 24F MPO Male, Polarity Type A
F1SHD24OS2MT12ELUA	4X SHD Cassette, 24 Fiber, SM, (12) Duplex LC/UPC to (2) 12F MPO Male, Polarity Type A
F1SHD24OM3/4MT24ELUB	4X SHD Cassette, 24 Fiber, OM3/4, (12) Duplex LC/UPC to (1) 24F MPO Male, Polarity Type B
F1SHD24OM3/4MT12ELUB	4X SHD Cassette, 24 Fiber, OM3/4, (12) Duplex LC/UPC to (2) 12F MPO Male, Polarity Type B



4X SHD ADAPTER PLATES

PART #	DESCRIPTION
F1SHDMP06A	MTP 6 Pack, 4X SHD Adapter Plate, Polarity Type A, Color Black
F1SHDMP012A	MTP 12 Pack, 4X SHD Adapter Plate, Black Type A, Polarity Type A, Color Black
F1SHDBLANK	4X SHD Blank Adapter Plate, Unloaded, No Holes



PRELOADED / TERMINATED SPLITTER AND CWDM CASSETTES

BUILD YOUR OWN CUSTOM CASSETTE

Use this chart to build a cassette to your exact specifications.

BOX STYLE	CORE/CLAD SIZE	DEVICE	CONFIGURATION	SPLIT RATIO / CHANNELS	CONN. TYPE (INPUT)	CONN. TYPE (OUTPUT)	OPTIONS
RMC	3	S	5	EV	YU	YU	6
RMC = LGX Style Rack Mount RSC = Ruggedized Style Splitter PNC = Special Package BC = No Box, Standard Package RU = 1 RU Panel P4 = F1-400 Enclosure P6 = F1-600 Enclosure P8 = F1-800 Enclosure	1=50/125µm - OM2 2=62.5/125µm - OM1 3=8-9/125µm - OS2 8=50µm10Gig - OM3 10=50µm10Gig - OM4 12=50µm10Gig - OM5	S - Splitter/Coupler W - WDM D - DWDM CWDM=CWDM	2-1x2 3-1x3 4-1x4 5-1x5 6-1x6 7-1x7 8-1x8 12-1x12 16-1x16 32-1x32 64-1x64	01= 01/99 05= 05/95 10= 10/90 20= 20/80 25= 25/75 30= 30/70 40= 40/60 50= 50/50 EV= Even AC-1291-1351 BC-1471-1531 CC-1511-1571 DC-1551-1611 EC- 1271-1611 LC-1471-1611	7= FC/PC 7U= FC/UPC 7A= FC/APC 8= ST/PC 8U= ST/UPC L - LC/PC LU - LC/UPC LA - LC/APC Y=SC/PC YU= SC/UPC YA= SC/APC	7= FC/PC 7U= FC/UPC 7A= FC/APC 8= ST/PC 8U= ST/UPC L - LC/PC LU - LC/UPC LA - LC/APC Y=SC/PC YU= SC/UPC YA= SC/APC	1 - 250µm Bare Fiber 2 - Ruggedized 2mm Jacket 3 - Ruggedized 3mm Jacket 4 - Tree Coupler (Cascade) 5 - 900µm Buffered Fiber 6 - Single Module 7 - Double Module 8 - 1U Rack Mount 9 - PLC Package UPG - CWDM Upgrade EXP - CWDM Express TST - CWDM Test

Part # Example: RMC-3-CWDM-BC-EV-YU-YU-6-EXP

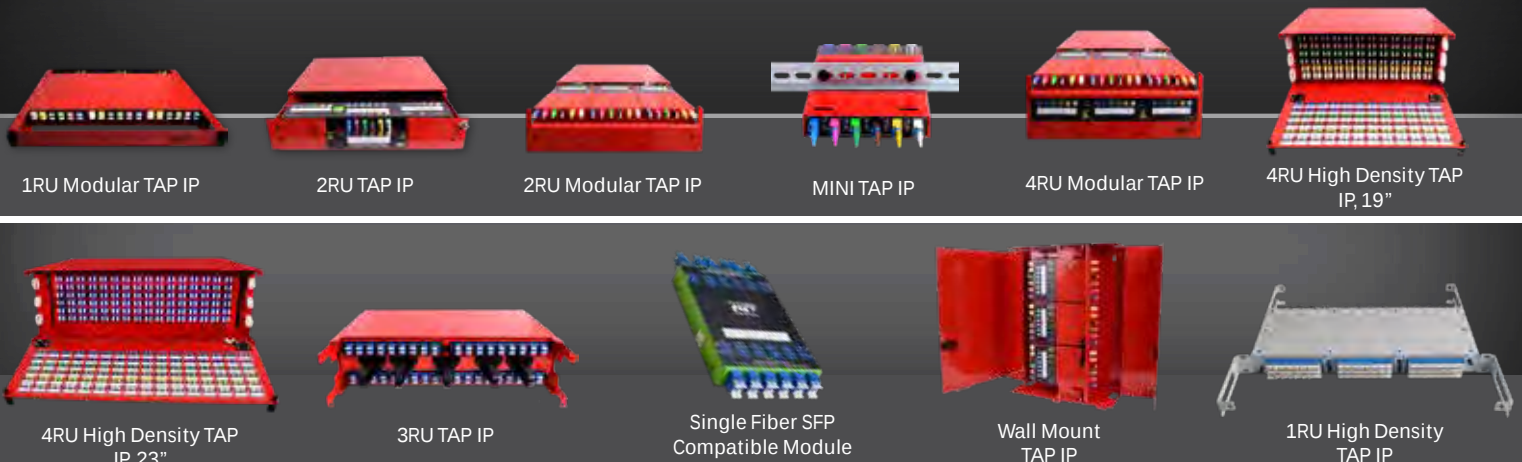
Translates to: Rack Mount Coupler Module, Singlemode, CWDM Mux/Demux, 1471-1531nm, SC/UPC Input and Output, Single Module, with CWDM Express Port.

FIS OPTICAL TAP INTERFACE PANELS

An Optical TAP provides access to the full-duplex data stream while maintaining uninterrupted data flow within the network for performance engineers to utilize monitoring systems or protocol analyzers. Optical TAPs will induce attenuation on the network link so be sure to verify optical power budget prior to implementing to avoid unnecessary troubleshooting. Optical TAPs do not create latency or delay.

FEATURES

- No power or adjustments are required
- All traffic (raw data) is funneled to monitor port for analyzing
- Allows connecting and disconnecting to monitoring traffic without taking the network off line
- Custom split ratio, chassis and modules available



MPO/MTP PRE-TERMINATED SYSTEMS

The FIS MPO/MTP Module is a pre-terminated, pre-tested, rack mount module system allowing for a simple installation of MPO/MTP backbone cables with a transition to standard LC or SC connections. The FIS modules are designed to fit into enclosures with LGX slot configurations. Using a pre-terminated cable assembly in conjunction with modules within a rack allows for easier installation and simpler cable management. Contact your FIS sales representative today for further details or use the part numbers and configurator below to construct the proper combination to meet any requirement.

Compatible
Enclosures
pgs 3-5

BUILD YOUR OWN CUSTOM MPO/MTP MODULE

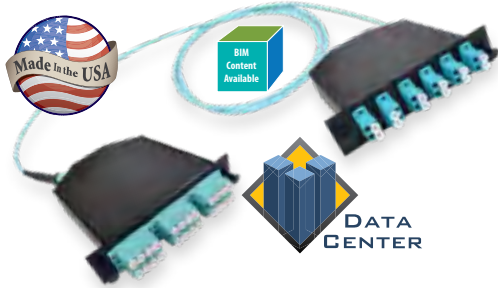
Use this chart to build a MPO/MTP module to your exact specifications.

MODULE STYLE	FIBER COUNT	FIBER TYPE	REAR CONNECTOR (MPO/MTP)	FERRULE QUALITY (MPO/MTP)	FRONT CONNECTOR	MTP CASSETTE POLARITY
F1-MTP	12	OS2	MT12	S	LU	A
F1-MTP = MPO/MTP Cassette, LGX, Black	8 = 8 Fiber 12 = 12 Fiber 16 = 16 Fiber 24 = 24 Fiber 32 = 32 Fiber	OM1 = 62.5µm OM1, MM OM2 = 50µm OM2, MM OM3 = 50µm OM3, MM OM4 = 50µm OM4, MM OM5 = 50µm OM5, MM OS2 = 9µm OS2, SM	MT8 = MTP 8 Fiber Male MT12 = MTP 12 Fiber Male MT16 = MTP 16 Fiber Male MT24 = MTP 24 Fiber Male MT32 = MTP 32 Fiber Male MF8 = MTP 8 Fiber Female MF12 = MTP 12 Fiber Female MF16 = MTP 16 Fiber Female MF24 = MTP 24 Fiber Female MF32 = MTP 32 Fiber Female	S = Standard E = Elite	Y = SC/PC YU = SC/UPC YA = SC/APC L = LC/PC LU = LC/UPC LA = LC/APC	A = Type A B = Type B C = Type C D = 24 Fiber Type A E = 24 Fiber Type B U = Other (User Defined)

Part # Example:

F1-MTP-12-OS2-MT12-S-LU-A

Translates to: MPO/MTP Cassette, 12 Fiber, SM, 1 Male MTP
Standard Ferrule to LC/UPC Duplex, Type A Polarity



MPO/MTP STOCK BREAKOUT MODULE SOLUTION

PART #	DESCRIPTION
F1-MTP-M-SC-OM3-12	12-fiber 50µm OM3, 1 rear MTP/male port, 6 SC/duplex ports
F1-MTP-M-SC-OS2-12	12-fiber SM, 1 rear MTP/male port, 6 SC/duplex ports
F1-MTP-M-LC-OM3-12	12-fiber 50µm OM3, 1 rear MTP/male port, 6 front LC/duplex ports
F1-MTP-M-LC-OS2-12	12-fiber SM, 1 rear MTP/male port, 6 front LC/duplex ports
F1-MTP-M-LC-OM3-24	24-fiber 50µm OM3, 2 rear MTP/male ports, 6 front LC/quad ports
F1-MTP-M-LC-OS2-24	24-fiber SM, 2 rear MTP/male ports, 6 front LC/quad ports

** Also available with MTP / Female Ports and/or SC ports **

1RU TAP IP	1RU TAP IP	1RU Modular TAP IP	2RU TAP IP	2RU Modular TAP IP	Mini TAP Panel	4RU Modular TAP IP	4RU High Density TAP IP19	4RU High Density TAP IP23	3RU TAP IP	Single Fiber SFP Compatible Module	Wall Mount TAP IP	1RU High Density TAP IP
"RU" Height (RU = 1.75")	1	1	2	2	1.5	4	4	4	3	1	N/A	1
Max # of TAP Monitor Ports (Duplex LC/UPC Ports)	6	18	6	18	18	18	72	96	36	6 or 12	18	144
Compatible Rack Width (Inches)	19 or 23	19 or 23	19 or 23	19 or 23	19" DIN RAIL	19 or 23	19 or 23	23	23	N/A	N/A	19
Dimensions (Inches)	17"W x 13.9"D x 1.75"H	17"W x 13.5"D x 1.7"H	17"W x 14.68"D x 3.469"H	17"W x 15.20"D x 3.469"H	5.44"W x 10.50"D x 1.13"H	17"W x 15.18"D x 6.75"H	17"W x 16.83"D x 6.92"H	19"W x 16.183"D x 6.92"H	21"W x 16.5"D x 5.22"H	5.44"W x 10.50"D x 1.13"H	14.63"W x 3"D x 19"H	18"W x 17"D x 1.70"H
Integrated Cable Management (Hybriflex)	No	No	Yes, 30+ ft	Yes, 30+ ft	No	Yes, 50+ ft	No	No	No	No	Yes, 15+ ft	No

ASSEMBLIES

ASSEMBLIES | MPO/MTP CABLE ASSEMBLY MULTIMODE AND SINGLEMODE

CUSTOM MPO/MTP TRUNK CABLE ASSEMBLY CONFIGURATOR:

Use this chart to build cable you need to your exact specifications.

CABLE STYLE	FIBER	CONN. #1	CONN. #2	MODE	LENGTH (IN METERS)	FERRULE QUALITY	FIBER COUNT	POLARITY	BUILD UP BREAKOUT	JACKET	P/E
M	8	MF12	YU	M	1	S	12	A	X	PL	X
MD = Micro Distribution R = Ribbon	1 = 50µm MM - OM2 2 = 62.5µm MM - OM1 3 = 9µm SM - OS2 8 = 50µm 10Gig - OM3 10 = 50µm 10Gig - OM4 12 = 50µm 10Gig - OM5	MT8 = MTP 8 Fiber Male MT12 = MTP 12 Fiber Male MT16 = MTP 16 Fiber Male MT24 = MTP 24 Fiber Male MT32 = MTP 32 Fiber Male MF8 = MTP 8 Fiber Female MF12 = MTP 12 Fiber Female MF16 = MTP 16 Fiber Female MF24 = MTP 24 Fiber Female MF32 = MTP 32 Fiber Female	YU = SC/UPC YA = SC/APC LU = LC/UPC LA = LC/APC 8U = ST/UPC 7U = FC/UPC 7A = FC/APC MT8 = MTP 8 Fiber Male MT12 = MTP 12 Fiber Male MT16 = MTP 16 Fiber Male MT24 = MTP 24 Fiber Male MT32 = MTP 32 Fiber Male	S = Singlemode M = Multimode		S = Standard E = Elite	12 = 12-fiber 24 = 24 fiber 32 = 32 fiber 36 = 36 fiber 48 = 48 fiber 72 = 72 fiber 144 = 144 fiber	A = Type A B = Type B C = Type C D = 24 Fiber Type A E = 24 Fiber Type B U = Other (User Defined)	Z9 = 900 Z2 = 2mm Z3 = 3m X = None	R = Riser PL = Plenum	P/E = Pulling Eye



MPO/MTP TRUNK AND BREAKOUT CABLE ASSEMBLIES

PART #	DESCRIPTION
M3MF12MF12S1S12AXPL	12 Fiber, 9/125µm SM MTP(F)-MTP(F) Plenum
M8MF12MF12M1S12AXPL	12 Fiber, 50µm 10Gig OM3 MM MTP(F)-MTP(F) Plenum
M8MF12MF12M1S24AXPL	24 Fiber, 50µm 10Gig OM3 MM MTP(F)-MTP(F) Plenum
M8MF12MF12M1S48AXPL	48 Fiber, 50µm 10Gig OM3 MM MTP(F)-MTP(F) Plenum

MPO/MTP RIBBON CABLE ASSEMBLIES AND PIGTAILS

PART #	DESCRIPTION
R3MT12MT12S1S12AZ9R	12 Fiber Ribbon, 9µm SM MTP(M)-MTP(M) 1 Meter Riser
R3MT12YUS1S12AZ9R	12 Fiber Ribbon, 9µm SM MTP(M)-SC/UPC 1 Meter Riser
R3YUPS3FIS12C	12 Fiber Ribbon, 9µm SM SC/UPC 3 Meter Pigtail Fanout Kit
R3LUPS3FIS12C	12 Fiber Ribbon, 9µm SM LC/UPC 3 Meter Pigtail Fanout Kit

Plug and Play



F1-MTP/F-LC-051-12

MPO/MTP PRE TERMINATED MULTI-FIBER CABLE SOLUTIONS

Help your data transmission initiatives stay future-proof.

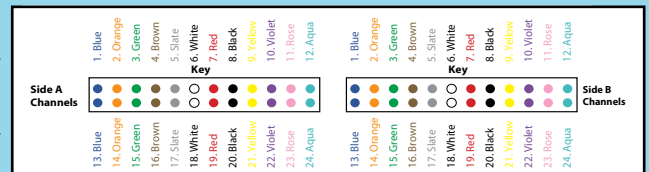
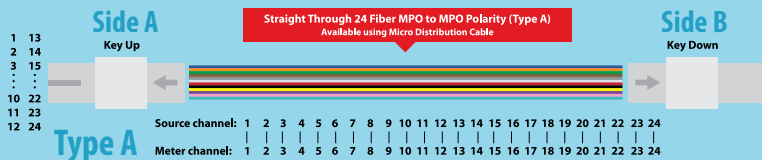
STANDARD vs. ELITE MTP FERRULES

The USCONEC MTP connector is available in both Standard and Elite versions (Singlemode and Multimode). Please indicate Elite or Standard when using the MTP configurator to determine your cable's part number.

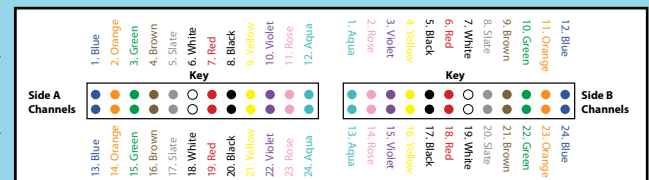
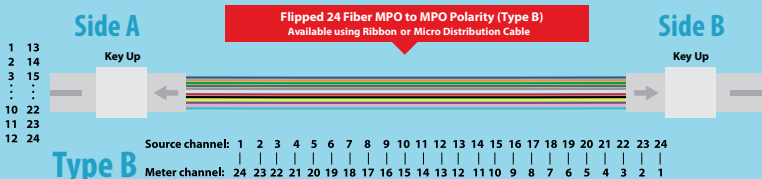
UNDERSTANDING MPO/MTP POLARITY

MPO/MTP polarity has recently become a confusing fiber related issue. Generally there are three accepted 'Industry Standard' wiring methods (A, B and C) for 12 fiber MPO/MTP optical connectors. It is important to know which standard you need for your MPO/MTP assembly. You may also have the need for 'Vendor Specific' MPO/MTP wiring patterns that differ from the 'Industry Standards'. MPO/MTP connectors are also available in a 24 fiber configuration. Fiber Instrument Sales can build your MPO/MTP cable assembly to any of the 'Standards' or fiber counts that you require.

24 FIBER MPO/MTP
STRAIGHT POLARITY



24 FIBER MPO/MTP TYPE - B
REVERSED POLARITY

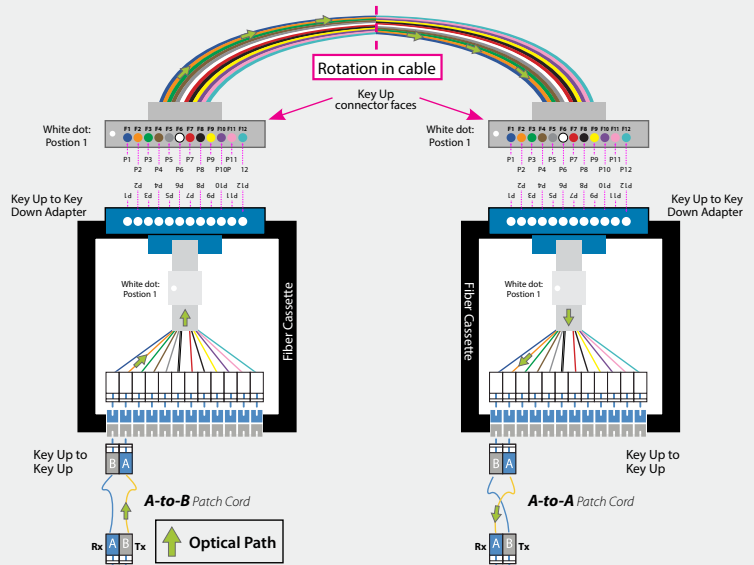
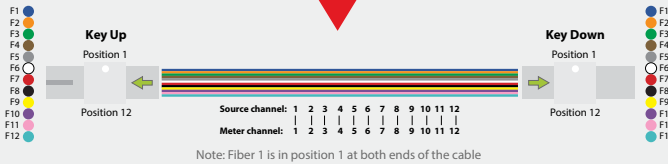


CUSTOM MPO/MTP TRUNK CABLE ASSEMBLY DIAGRAMS

Use these diagrams to help build cable you need to your exact specifications.

Type A

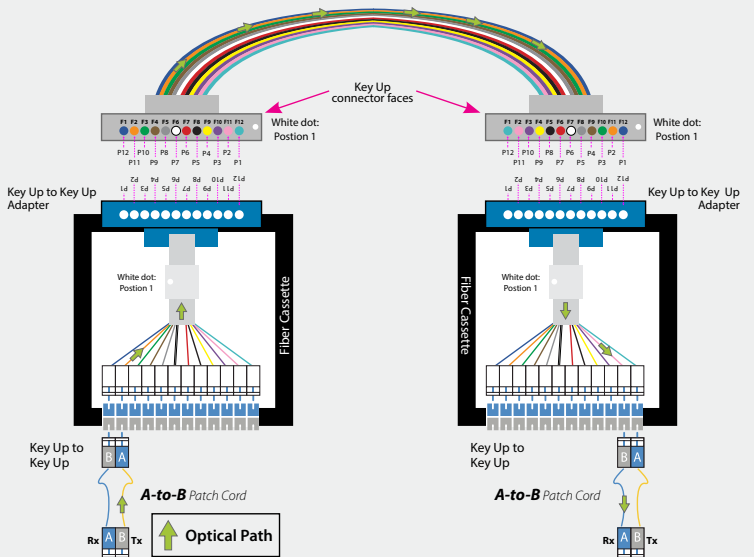
Straight Through 12 Fiber MPO to MPO Polarity (Type A)
Available using Ribbon or Micro Distribution Cable



12 FIBER TYPE A MPO/MTP POLARITY

Type B

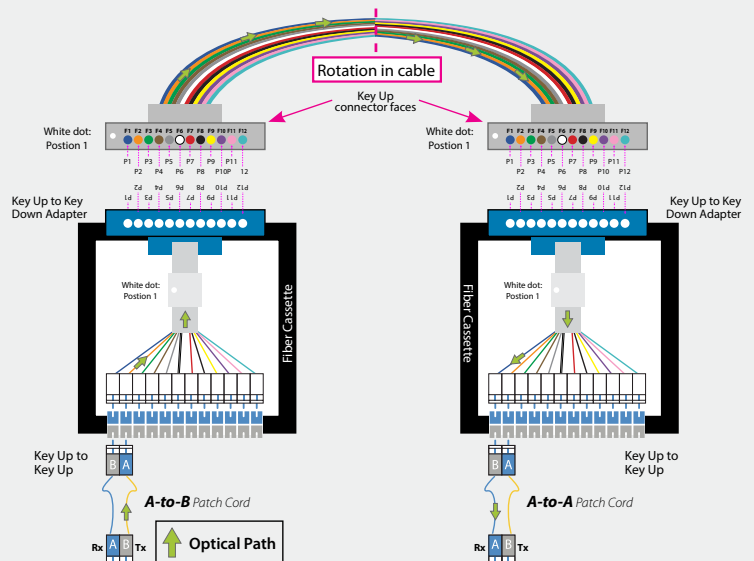
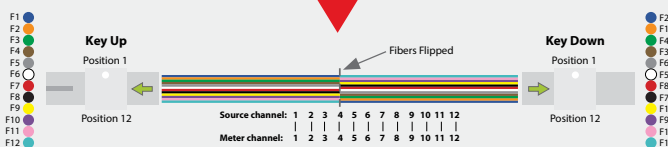
Reversed 12 Fiber MPO to MPO Polarity (Type B)
Available using Ribbon or Micro Distribution Cable



12 FIBER TYPE B MPO/MTP POLARITY

Type C

Flipped Pairs 12 Fiber MPO to MPO Polarity (Type C)
Available using Micro Distribution Cable



12 FIBER TYPE C MPO/MTP POLARITY

WHY IS FIS A LEADING SUPPLIER OF CUSTOM FIBER OPTIC ASSEMBLIES...

1. FLEXIBILITY

- Wide Selection of components from leading manufacturers
- Ability to build to Engineering specifications or drawings
- From a quantity of 1 or 1,000's FIS can deliver

2. FAST DELIVERY / HIGH QUALITY

- Cables are ready to ship nationwide and internationally in as little as 2-4 days
- 100% inspection and tested to industry standards
- ISO 9001-2015 Certified
- Over 25 years of cable assembly experience

3. ADDITIONAL SERVICES

- Termination of Customer Supplied Materials
- Creation of engineer drawings of assemblies
- Custom packaging, labeling
- Experienced engineering team to help design an assembly for any application

SPECIFICATIONS

LENGTH

SIMPLEX/DUPLEX

TOTAL LENGTH = -0/+3" (> 5 MTRS), -0/+10% (< 5 MTRS)

BREAKOUT = N/A

MAXIMUM CONNECTOR TO CONNECTOR = 1.5"

TESTING

INSERTION LOSS

MULTIMODE = > /= 0.4 dB (TYPICAL)

SINGLEMODE = > /= 0.3 dB (TYPICAL)

STANDARD CONFIGURATIONS

Standard configurations (typical lead-time 2-4 days) – Convert your next project to “plug n’ go” by having your cable assemblies pre-terminated by FIS. Our expert technicians prepare assemblies from a 1-fiber patch cable to 144-fiber assemblies, while offering a wide array of components for you to create the perfect assembly for your application.

CUSTOM CONFIGURATIONS

Custom configurations (typical lead-time 3-5 days) – FIS has the ability to manufacture a variety of custom configurations. Our custom abilities include but are not limited to labeling, packaging, testing requirements, and building to customer supplied specifications and drawings.

MULTIFIBER

TOTAL LENGTH = -0/+3" (> 5 MTRS), -0/+10% (< 5 MTRS)

BREAKOUT = 1 MTR (-0/+3")

MAXIMUM CONNECTOR TO CONNECTOR = 1.5"

RETURN LOSS

PC = < /= -25dB

UPC = < /= -55dB

APC = < /= -60dB

CUSTOM FIBER OPTIC CABLE ASSEMBLY CONFIGURATOR:

CABLE TYPE	FIBER TYPE	CONNECTOR SIDE A	CONNECTOR SIDE B	MODE
S	3	7A	8U	S
S=Simplex 3.0mm D=Duplex 3.0mm B=Breakout C=Distribution G=GGP Fiber Cable L=Loose Tube I=Indoor/Outdoor R=Ribbon X=Duplex 1.6mm E=250µm Bare Fiber Y=Simplex 1.6mm T=Simplex 2.0mm V=Duplex 2.0mm LA=Loosetube Armored A=Armored Cable PM=Polarization Maintaining RF=Ribbon Fan-Out ENC=Epoxy Node Cable N=900µm Buffered Fiber DB=Dry Block Cable Specialty MD=Micro-Distribution IG= Indoor/Outdoor Rated (250µm) BA=Breakout Cable w/Interlocking Armor TB= Tactical/Broadcast Cable DA= Outdoor Gel Free Armored Cable LZ=LSZH Cable RA=Ribbon Interlocking Armored Cable AER= Aerial RD= Round Duplex F= 1.8mm Simplex H= 1.8mm Duplex FD= Flat Drop Cable Z=1.2mm Simplex	1=50/125µm - OM2 2=62.5/125µm - OM1 3=8-9/125µm - OS2 4=Other 5=100/140µm 6=200/230µm 7=960/1000µm (plastic) 8=BI 50µm 10Gig - OM3 9=BI Singlemode (Ultra) 10=BI 50µm 10Gig - OM4 12=50µm10Gig - OM5	1=SMA905 2=SMA906 4=FC/Stainless Alloy 5=ST/Stainless Alloy 6=D4 7=FC/PC 7U=FC/UPC 7A=FC/APC 8=ST/PC 8A=ST/APC 8U=ST/UPC Y=SC/PC YU=SC/UPC YA=SC/APC D=SC Duplex w/ Clips L=LC/PC LU=LC/UPC LA=LC/APC C=LC Duplex w/ Clips	F=Ferrule Only M=MU/PC MU=MU/UPC 9A=PM-FC/APC 9U=PM-FC/UPC P=Pigtail AA=High Performance FC/APC BA=High Performance SC/APC EU=E2000/UPC EA=E2000/APC MJ=MTRJ (no pins) MP=MTRJ (w/pins) MT12=MTP 12 Fiber Male MF12=MTP 12 Fiber Female MT24 = MTP 24 Fiber Male MF24 = MTP 24 Fiber Female SLA = Short Boot LC/APC SYA = Short Boot SC/APC SLU = Short Boot LC/UPC SYU = Short Boot SC/UPC	S= Singlemode M= Multimode H= Hybrid P= PM Fiber

Note: Choose connector styles from either Connector Side A or Connector Side B column for Side A or Side B categories.

DID YOU KNOW... THE DIFFERENCE BETWEEN RISER (OFNR) AND PLENUM (ONFP)

- **PLENUM (ONFP)** - refers to a specific fire code rating of cables that are resistant to fire and do not emit toxic fumes or smoke when burned. Plenum-rated cables are primarily used in pathways for either heated, cooled or return airflows.
- **RISER (OFNR)** - is constructed of PVC and may emit toxic fumes when burned and is to be run in non-plenum areas. Plenum cable can always replace riser cable, but riser cable cannot replace plenum cable in plenum spaces.

CONFIGURATION ILLUSTRATION

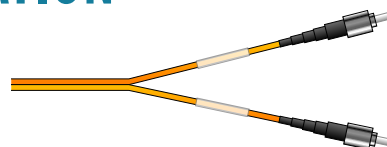


CLIPPED DUPLEX PATCH CABLE

Standard Polarity A to B / B to A



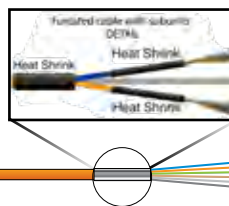
SIMPLEX PATCH CABLE



UNCLIPPED DUPLEX PATCH CABLE

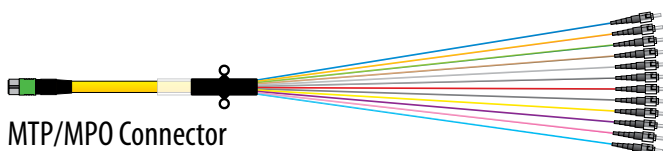


NODE CABLE ASSEMBLY

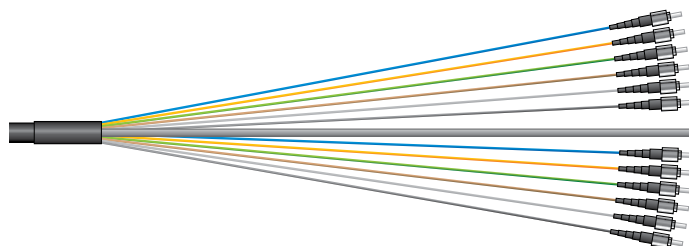


DISTRIBUTION - INDOOR/OUTDOOR ASSEMBLY

2-144 Fiber (ex. 6 Fiber Assembly)



RIBBON FANOUT ASSEMBLY



LOOSE TUBE CABLE ASSEMBLY

USE THIS CHART TO BUILD CABLE YOU NEED TO YOUR EXACT SPECIFICATIONS.

LENGTH (IN METERS)
X

CABLE RATING
RI
NP= No Preference RI= OFNR (Riser) PL= OFNP (Plenum) LZ= LSZH (Low Smoke) UV= Polyethylene/Outdoor

FIBER COUNT (Multi Fiber Only)
04
04=4 Fiber 06=6 Fiber 12=12 Fiber 24=24 Fiber 48=48 Fiber 72=72 Fiber 96=96 Fiber 144=144 Fiber *Specify Fiber Count not listed

BREAKOUT BUILD-UP (Multi Fiber Only)
Z3
Z9=900µm Z1=1.8mm Z2=2mm Z3=3mm

PULLING EYE INSTALLED
PE
PE= Outside End Only PBE= Both Ends



Part # Example:

S-3-7A-8U-S-3-RI-PE

Translates to: Simplex 9/125 FC/APC - ST/UPC singlemode, 3 meter, riser patch cable with pulling eye

CABLE CONSTRUCTION TYPES

SIMPLEX - A single fiber cable that may consist of a 900µm coated fiber or a combination of a 900µm coated fiber surrounded by an aramid yarn strength member with an outer jacket diameter varying from 3, 2, 1.8 and 1.6mm.

DUPLEX - A two-fiber cable that consists of a combination of two 900µm coated fibers surrounded by an aramid yarn strength member with an outer jacket diameter varying from 3, 2, 1.8 and 1.6mm. Also can choose 900µm duplex cable where the two 900µm buffers are joined together. (Limited offering from manufacturers.)

BREAKOUT - Packages multiple 2.5-3.0mm jacketed fibers and surrounds these sub-units with an aramid yarn strength member and outer jacket. Fiber counts typically are 2-24 fibers. Primarily used in application where a rugged or robust cable is required.

DISTRIBUTION - Packages multiple 900µm tight buffered fibers, surrounded by aramid yarn strength member, in a larger outer jacket. Fiber counts typically range from 2 - 144 fibers. Primarily used indoors and popular with interlocking armor for extra protection. Often referred to as MIC cable construction by other manufacturers.

MICRO-DISTRIBUTION - Packages multiple 250µm buffered bare fibers of different colors within sub-units to minimize the outer jacket size. Fan-out kits or furcation tube often required to terminate connectors. Popular for indoor use with MTP/MPO connector and Fan-out assemblies in Data Center applications.

BARE FIBER - A single glass fiber typically consisting of a core, cladding and 250µm acrylate coating.

TIGHT BUFFER - A single bare fiber with an outer coating that is typically 900µm in diameter.

LOOSE TUBE - Packages 250µm buffered fibers amongst each other in gel filled sub units typically 2.0-2.5mm. The gel filled tubes provide superior protection against changing temperatures and water filled conduits. Outer jacket is UV and moisture resistant.

LOOSE TUBE ARMORED - Packages 250µm buffered fibers amongst each other in gel filled sub units typically 2.0-2.5mm. The gel filled tubes provide superior protection against changing temperatures and water filled conduits. The outer jacket is extruded over corrugated coated steel tape offering rodent proof protection, the jacket is UV and moisture resistant.

OUTDOOR DRY (GEL FREE) CABLE - Packages 250µm buffered fibers within super absorbent polymer or water treated blocking aramid yarn. Dry loose tube design improves ease of termination without gel filled tubes. Recommended for installation in ducts, underground conduit or aerial/lashing applications not intended for direct burial. Armored version of cable utilizes corrugated coated steel tape for rodent protection, with extruded UV resistant jacket.

DISTRIBUTION INTERLOCKING ARMORED - Available with Riser or Plenum rated outer jacket this cable houses 900µm buffered fibers surrounded by aramid yarn with interlocking aluminum armor then extruded outer flame resistant jacket. Intended for harsh indoor environments requiring heavy duty protection.

TACTICAL CABLE - Packages typically multiple 2.0-2.5mm jacketed subunits surrounded by aramid yarn with epoxy/fiberglass strength member. Rugged design for heavy duty applications such as TV cameras, mining/harsh environments and military/commercial field re-deployable communications. Tactical Distribution packages 900µm fiber rather than larger subunits.

Buy From Stock, Ship Today


SC-SC Simplex

LC-SC Simplex

LC-SC Duplex

SC-ST Duplex

Fiber optic cable assemblies from Fiber Instrument Sales provide the highest quality and maximum performance expected from ceramic ferrule connectors. Listed lengths and styles provide the user prompt delivery by selecting from our well stocked inventory. FIS UPC cords are 100% tested and visually inspected. UPC assemblies are provided with individual test results.

UPC SINGLEMODE SIMPLEX PATCHCORDS

PART #	DESCRIPTION	LENGTH	JACKET SIZE
S98U8US1FISCU	ST-ST	1 Meter	3mm
S98U8US2FISCU	ST-ST	2 Meters	3mm
S98U8US3FISCU	ST-ST	3 Meters	3mm
S98U8US5FISCU	ST-ST	5 Meters	3mm
S98U8US10FISCU	ST-ST	10 Meters	3mm
S98U8US15FISCU	ST-ST	15 Meters	3mm
S98U8US20FISCU	ST-ST	20 Meters	3mm
S9YUYUS1FISCU	SC-SC	1 Meter	3mm
S9YUYUS2FISCU	SC-SC	2 Meters	3mm
S9YUYUS3FISCU	SC-SC	3 Meters	3mm
S9YUYUS5FISCU	SC-SC	5 Meters	3mm
S9YUYUS10FISCU	SC-SC	10 Meters	3mm
S9YUYUS15FISCU	SC-SC	15 Meters	3mm
S9YUYUS20FISCU	SC-SC	20 Meters	3mm
Y9LULUS1FISCU	LC-LC	1 Meter	1.6mm
Y9LULUS2FISCU	LC-LC	2 Meters	1.6mm
Y9LULUS3FISCU	LC-LC	3 Meters	1.6mm
Y9LULUS5FISCU	LC-LC	5 Meters	1.6mm
Y9LULUS10FISCU	LC-LC	10 Meters	1.6mm
Y9LULUS15FISCU	LC-LC	15 Meters	1.6mm
Y9LULUS20FISCU	LC-LC	20 Meters	1.6mm
S98UYUS1FISCU	ST-SC	1 Meter	3mm
S98UYUS2FISCU	ST-SC	2 Meters	3mm
S98UYUS3FISCU	ST-SC	3 Meters	3mm
S98UYUS5FISCU	ST-SC	5 Meters	3mm
S98UYUS10FISCU	ST-SC	10 Meters	3mm
S98UYUS15FISCU	ST-SC	15 Meters	3mm
S98UYUS20FISCU	ST-SC	20 Meters	3mm
Y9LUYUS1FISCU	LC-SC	1 Meter	1.6mm
Y9LUYUS2FISCU	LC-SC	2 Meters	1.6mm
Y9LUYUS3FISCU	LC-SC	3 Meters	1.6mm
Y9LUYUS5FISCU	LC-SC	5 Meters	1.6mm
Y9LUYUS10FISCU	LC-SC	10 Meters	1.6mm
Y9LUYUS15FISCU	LC-SC	15 Meters	1.6mm
Y9LUYUS20FISCU	LC-SC	20 Meters	1.6mm
S97U7US1FISCU	FC-FC	1 Meter	3mm
S97U7US2FISCU	FC-FC	2 Meters	3mm
S97U7US3FISCU	FC-FC	3 Meters	3mm
S97U7US5FISCU	FC-FC	5 Meters	3mm
S97U7US10FISCU	FC-FC	10 Meters	3mm
S97U7US15FISCU	FC-FC	15 Meters	3mm
S97U7US20FISCU	FC-FC	20 Meters	3mm

UPC SINGLEMODE DUPLEX PATCHCORDS

PART #	DESCRIPTION	LENGTH	JACKET SIZE
X9LUYUS1FISCU	LC-SC	1 Meter	1.6mm
X9LUYUS2FISCU	LC-SC	2 Meters	1.6mm
X9LUYUS3FISCU	LC-SC	3 Meters	1.6mm
X9LUYUS5FISCU	LC-SC	5 Meters	1.6mm
X9LUYUS10FISCU	LC-SC	10 Meters	1.6mm
X9LUYUS15FISCU	LC-SC	15 Meters	1.6mm
X9LUYUS20FISCU	LC-SC	20 Meters	1.6mm
D9YUYUS1FISCU	SC-SC	1 Meter	3mm
D9YUYUS2FISCU	SC-SC	2 Meters	3mm
D9YUYUS3FISCU	SC-SC	3 Meters	3mm
D9YUYUS5FISCU	SC-SC	5 Meters	3mm
D9YUYUS10FISCU	SC-SC	10 Meters	3mm
D9YUYUS15FISCU	SC-SC	15 Meters	3mm
D9YUYUS20FISCU	SC-SC	20 Meters	3mm
D98U8US1FISCU	ST-ST	1 Meter	3mm
D98U8US2FISCU	ST-ST	2 Meters	3mm
D98U8US3FISCU	ST-ST	3 Meters	3mm
D98U8US5FISCU	ST-ST	5 Meters	3mm
D98U8US10FISCU	ST-ST	10 Meters	3mm
D98U8US15FISCU	ST-ST	15 Meters	3mm
D98U8US20FISCU	ST-ST	20 Meters	3mm
D98UYUS1FISCU	ST-SC	1 Meter	3mm
D98UYUS2FISCU	ST-SC	2 Meters	3mm
D98UYUS3FISCU	ST-SC	3 Meters	3mm
D98UYUS5FISCU	ST-SC	5 Meters	3mm
D98UYUS10FISCU	ST-SC	10 Meters	3mm
D98UYUS15FISCU	ST-SC	15 Meters	3mm
D98UYUS20FISCU	ST-SC	20 Meters	3mm
D97U7US1FISCU	FC-FC	1 Meter	3mm
D97U7US2FISCU	FC-FC	2 Meters	3mm
D97U7US3FISCU	FC-FC	3 Meters	3mm
D97U7US5FISCU	FC-FC	5 Meters	3mm
D97U7US10FISCU	FC-FC	10 Meters	3mm
D97U7US15FISCU	FC-FC	15 Meters	3mm
D97U7US20FISCU	FC-FC	20 Meters	3mm
X9LULUS1FISCU	LC-LC	1 Meter	1.6mm
X9LULUS2FISCU	LC-LC	2 Meters	1.6mm
X9LULUS3FISCU	LC-LC	3 Meters	1.6mm
X9LULUS5FISCU	LC-LC	5 Meters	1.6mm
X9LULUS10FISCU	LC-LC	10 Meters	1.6mm
X9LULUS15FISCU	LC-LC	15 Meters	1.6mm
X9LULUS20FISCU	LC-LC	20 Meters	1.6mm

Buy From Stock, Ship Today


SC-LC Simplex

LC-LC Simplex

LC-ST Duplex

LC-LC Duplex

1.6MM MULTIMODE SIMPLEX PATCHCORDS

PART #	DESCRIPTION	LENGTH	FIBER TYPE
Y8YYM1FISC	SC-SC	1 Meter	OM3
Y8YYM2FISC	SC-SC	2 Meters	OM3
Y8YYM3FISC	SC-SC	3 Meters	OM3
Y8YYM5FISC	SC-SC	5 Meters	OM3
Y8YYM10FISC	SC-SC	10 Meters	OM3
Y8YYM15FISC	SC-SC	15 Meters	OM3
Y8YYM20FISC	SC-SC	20 Meters	OM3
Y8LLM1FISC	LC-LC	1 Meter	OM3
Y8LLM2FISC	LC-LC	2 Meters	OM3
Y8LLM3FISC	LC-LC	3 Meters	OM3
Y8LLM5FISC	LC-LC	5 Meters	OM3
Y8LLM10FISC	LC-LC	10 Meters	OM3
Y8LLM15FISC	LC-LC	15 Meters	OM3
Y8LLM20FISC	LC-LC	20 Meters	OM3
Y88M1FISC	ST-ST	1 Meter	OM3
Y88M2FISC	ST-ST	2 Meters	OM3
Y88M3FISC	ST-ST	3 Meters	OM3
Y88M5FISC	ST-ST	5 Meters	OM3
Y88M10FISC	ST-ST	10 Meters	OM3
Y88M15FISC	ST-ST	15 Meters	OM3
Y88M20FISC	ST-ST	20 Meters	OM3
Y8LYM1FISC	LC-SC	1 Meter	OM3
Y8LYM2FISC	LC-SC	2 Meters	OM3
Y8LYM3FISC	LC-SC	3 Meters	OM3
Y8LYM5FISC	LC-SC	5 Meters	OM3
Y8LYM10FISC	LC-SC	10 Meters	OM3
Y8LYM15FISC	LC-SC	15 Meters	OM3
Y8LYM20FISC	LC-SC	20 Meters	OM3
Y8Y8M1FISC	SC-ST	1 Meter	OM3
Y8Y8M2FISC	SC-ST	2 Meters	OM3
Y8Y8M3FISC	SC-ST	3 Meters	OM3
Y8Y8M5FISC	SC-ST	5 Meters	OM3
Y8Y8M10FISC	SC-ST	10 Meters	OM3
Y8Y8M15FISC	SC-ST	15 Meters	OM3
Y8Y8M20FISC	SC-ST	20 Meters	OM3
Y8L8M1FISC	LC-ST	1 Meter	OM3
Y8L8M2FISC	LC-ST	2 Meters	OM3
Y8L8M3FISC	LC-ST	3 Meters	OM3
Y8L8M5FISC	LC-ST	5 Meters	OM3
Y8L8M10FISC	LC-ST	10 Meters	OM3
Y8L8M15FISC	LC-ST	15 Meters	OM3
Y8L8M20FISC	LC-ST	20 Meters	OM3

1.6MM MULTIMODE DUPLEX PATCHCORDS

PART #	DESCRIPTION	LENGTH	FIBER TYPE
X8YYM1FISC	SC-SC	1 Meter	OM3
X8YYM2FISC	SC-SC	2 Meters	OM3
X8YYM3FISC	SC-SC	3 Meters	OM3
X8YYM5FISC	SC-SC	5 Meters	OM3
X8YYM10FISC	SC-SC	10 Meters	OM3
X8LLM1FISC	LC-LC	1 Meter	OM3
X8LLM2FISC	LC-LC	2 Meters	OM3
X8LLM3FISC	LC-LC	3 Meters	OM3
X8LLM5FISC	LC-LC	5 Meters	OM3
X8LLM10FISC	LC-LC	10 Meters	OM3
X888M1FISC	ST-ST	1 Meter	OM3
X888M2FISC	ST-ST	2 Meters	OM3
X888M3FISC	ST-ST	3 Meters	OM3
X888M5FISC	ST-ST	5 Meters	OM3
X888M10FISC	ST-ST	10 Meters	OM3
X8LYM1FISC	LC-SC	1 Meter	OM3
X8LYM2FISC	LC-SC	2 Meters	OM3
X8LYM3FISC	LC-SC	3 Meters	OM3
X8LYM5FISC	LC-SC	5 Meters	OM3
X8LYM10FISC	LC-SC	10 Meters	OM3
X8Y8M1FISC	SC-ST	1 Meter	OM3
X8Y8M2FISC	SC-ST	2 Meters	OM3
X8Y8M3FISC	SC-ST	3 Meters	OM3
X8Y8M5FISC	SC-ST	5 Meters	OM3
X8Y8M10FISC	SC-ST	10 Meters	OM3
X8L8M1FISC	LC-ST	1 Meter	OM3
X8L8M2FISC	LC-ST	2 Meters	OM3
X8L8M3FISC	LC-ST	3 Meters	OM3
X8L8M5FISC	LC-ST	5 Meters	OM3
X8L8M10FISC	LC-ST	10 Meters	OM3
X10YYM1FISC	SC-SC	1 Meter	OM4
X10YYM2FISC	SC-SC	2 Meters	OM4
X10YYM3FISC	SC-SC	3 Meters	OM4
X10YYM5FISC	SC-SC	5 Meters	OM4
X10YYM10FISC	SC-SC	10 Meters	OM4
X10LLM1FISC	LC-LC	1 Meter	OM4
X10LLM2FISC	LC-LC	2 Meters	OM4
X10LLM3FISC	LC-LC	3 Meters	OM4
X10LLM5FISC	LC-LC	5 Meters	OM4
X10LLM10FISC	LC-LC	10 Meters	OM4
X1088M1FISC	ST-ST	1 Meters	OM4
X1088M2FISC	ST-ST	2 Meters	OM4
X1088M3FISC	ST-ST	3 Meters	OM4
X1088M5FISC	ST-ST	5 Meters	OM4
X1088M10FISC	ST-ST	10 Meters	OM4

Quantity Pricing Available

Buy From Stock, Ship Today


ST-ST Simplex

SC-SC Simplex

LC-LC Duplex

ST-LC Duplex

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MULTIMODE SIMPLEX PATCHCORDS 50µm - OM2

PART #	DESCRIPTION	LENGTH	JACKET SIZE
S188M1FISC	ST-ST	1 Meter	3mm
S188M2FISC	ST-ST	2 Meters	3mm
S188M3FISC	ST-ST	3 Meters	3mm
S188M5FISC	ST-ST	5 Meters	3mm
S188M10FISC	ST-ST	10 Meters	3mm
S188M15FISC	ST-ST	15 Meters	3mm
S188M20FISC	ST-ST	20 Meters	3mm
S1YYM1FISC	SC-SC	1 Meter	3mm
S1YYM2FISC	SC-SC	2 Meters	3mm
S1YYM3FISC	SC-SC	3 Meters	3mm
S1YYM5FISC	SC-SC	5 Meters	3mm
S1YYM10FISC	SC-SC	10 Meters	3mm
S1YYM15FISC	SC-SC	15 Meters	3mm
S1YYM20FISC	SC-SC	20 Meters	3mm
Y1LLM1FISC	LC-LC	1 Meter	1.6mm
Y1LLM2FISC	LC-LC	2 Meters	1.6mm
Y1LLM3FISC	LC-LC	3 Meters	1.6mm
Y1LLM5FISC	LC-LC	5 Meters	1.6mm
Y1LLM10FISC	LC-LC	10 Meters	1.6mm
Y1LLM15FISC	LC-LC	15 Meters	1.6mm
Y1LLM20FISC	LC-LC	20 Meters	1.6mm

1.6mm MTRJ Female Multimode 62.5µm - OM1

X2MJMJM1FISC	MTRJ-MTRJ	1 Meters	1.6mm
X2MJMJM2FISC	MTRJ-MTRJ	2 Meters	1.6mm
X2MJMJM3FISC	MTRJ-MTRJ	3 Meters	1.6mm
X2MJMJM5FISC	MTRJ-MTRJ	5 Meters	1.6mm
X2MJYM1FISC	MTRJ-SC	1 Meter	1.6mm
X2MJYM2FISC	MTRJ-SC	2 Meters	1.6mm
X2MJYM3FISC	MTRJ-SC	3 Meters	1.6mm
X2MJYM5FISC	MTRJ-SC	5 Meters	1.6mm
X2MJ8M1FISC	MTRJ-ST	1 Meter	1.6mm
X2MJ8M2FISC	MTRJ-ST	2 Meters	1.6mm
X2MJ8M3FISC	MTRJ-ST	3 Meters	1.6mm
X2MJ8M5FISC	MTRJ-ST	5 Meters	1.6mm

MULTIMODE DUPLEX PATCHCORDS 50µm - OM2

PART #	DESCRIPTION	LENGTH	JACKET SIZE
D188M1FISC	ST-ST	1 Meter	3mm
D188M2FISC	ST-ST	2 Meters	3mm
D188M3FISC	ST-ST	3 Meters	3mm
D188M5FISC	ST-ST	5 Meters	3mm
D188M10FISC	ST-ST	10 Meters	3mm
D188M15FISC	ST-ST	15 Meters	3mm
D188M20FISC	ST-ST	20 Meters	3mm
D1YYM1FISC	SC-SC	1 Meter	3mm
D1YYM2FISC	SC-SC	2 Meters	3mm
D1YYM3FISC	SC-SC	3 Meters	3mm
D1YYM5FISC	SC-SC	5 Meters	3mm
D1YYM10FISC	SC-SC	10 Meters	3mm
D1YYM15FISC	SC-SC	15 Meters	3mm
D1YYM20FISC	SC-SC	20 Meters	3mm
X1LLM1FISC	LC-LC	1 Meter	1.6mm
X1LLM2FISC	LC-LC	2 Meters	1.6mm
X1LLM3FISC	LC-LC	3 Meters	1.6mm
X1LLM5FISC	LC-LC	5 Meters	1.6mm
X1LLM10FISC	LC-LC	10 Meters	1.6mm
X1LLM15FISC	LC-LC	15 Meters	1.6mm
X1LLM20FISC	LC-LC	20 Meters	1.6mm
D18YM1FISC	ST-SC	1 Meter	3mm
D18YM2FISC	ST-SC	2 Meters	3mm
D18YM3FISC	ST-SC	3 Meters	3mm
D18YM5FISC	ST-SC	5 Meters	3mm
D18YM10FISC	ST-SC	10 Meters	3mm
D18YM15FISC	ST-SC	15 Meters	3mm
D18YM20FISC	ST-SC	20 Meters	3mm
X18LM1FISC	ST-LC	1 Meter	1.6mm
X18LM2FISC	ST-LC	2 Meters	1.6mm
X18LM3FISC	ST-LC	3 Meters	1.6mm
X18LM5FISC	ST-LC	5 Meters	1.6mm
X18LM10FISC	ST-LC	10 Meters	1.6mm
X18LM15FISC	ST-LC	15 Meters	1.6mm
X18LM20FISC	ST-LC	20 Meters	1.6mm
X1YLM1FISC	SC-LC	1 Meter	1.6mm
X1YLM2FISC	SC-LC	2 Meters	1.6mm
X1YLM3FISC	SC-LC	3 Meters	1.6mm
X1YLM5FISC	SC-LC	5 Meters	1.6mm
X1YLM10FISC	SC-LC	10 Meters	1.6mm
X1YLM15FISC	SC-LC	15 Meters	1.6mm
X1YLM20FISC	SC-LC	20 Meters	1.6mm

Custom Lengths Available

Buy From Stock, Ship Today

LC-LC Simplex



ST-ST Duplex



SC-LC Simplex



LC-ST Duplex

MULTIMODE SIMPLEX PATCHCORDS 62.5µm - OM1

PART #	DESCRIPTION	LENGTH	JACKET SIZE
S288M1FISC	ST-ST	1 Meter	3mm
S288M2FISC	ST-ST	2 Meters	3mm
S288M3FISC	ST-ST	3 Meters	3mm
S288M5FISC	ST-ST	5 Meters	3mm
S288M10FISC	ST-ST	10 Meters	3mm
S288M15FISC	ST-ST	15 Meters	3mm
S288M20FISC	ST-ST	20 Meters	3mm
S2Y2M1FISC	SC-SC	1 Meter	3mm
S2Y2M2FISC	SC-SC	2 Meters	3mm
S2Y2M3FISC	SC-SC	3 Meters	3mm
S2Y2M5FISC	SC-SC	5 Meters	3mm
S2Y2M10FISC	SC-SC	10 Meters	3mm
S2Y2M15FISC	SC-SC	15 Meters	3mm
S2Y2M20FISC	SC-SC	20 Meters	3mm
Y2LLM1FISC	LC-LC	1 Meter	1.6mm
Y2LLM2FISC	LC-LC	2 Meters	1.6mm
Y2LLM3FISC	LC-LC	3 Meters	1.6mm
Y3LLS5FISC	LC-LC	5 Meters	1.6mm
Y2LLM10FISC	LC-LC	10 Meters	1.6mm
Y2LLM15FISC	LC-LC	15 Meters	1.6mm
Y2LLM20FISC	LC-LC	20 Meters	1.6mm

MULTIMODE DUPLEX PATCHCORDS 62.5µm - OM1

PART #	DESCRIPTION	LENGTH	JACKET SIZE
D2Y2M1FISC	SC-SC	1 Meter	3mm
D2Y2M2FISC	SC-SC	2 Meters	3mm
D2Y2M3FISC	SC-SC	3 Meters	3mm
D2Y2M5FISC	SC-SC	5 Meters	3mm
D2Y2M10FISC	SC-SC	10 Meters	3mm
D2Y2M15FISC	SC-SC	15 Meters	3mm
D2Y2M20FISC	SC-SC	20 Meters	3mm
D288M1FISC	ST-ST	1 Meter	3mm
D288M2FISC	ST-ST	2 Meters	3mm
D288M3FISC	ST-ST	3 Meters	3mm
D288M5FISC	ST-ST	5 Meters	3mm
D288M10FISC	ST-ST	10 Meters	3mm
D288M15FISC	ST-ST	15 Meters	3mm
D288M20FISC	ST-ST	20 Meters	3mm
X2LLM1FISC	LC-LC	1 Meter	1.6mm
X2LLM2FISC	LC-LC	2 Meters	1.6mm
X2LLM3FISC	LC-LC	3 Meters	1.6mm
X2LLM5FISC	LC-LC	5 Meters	1.6mm
X2LLM10FISC	LC-LC	10 Meters	1.6mm
X2LLM15FISC	LC-LC	15 Meters	1.6mm
X2LLM20FISC	LC-LC	20 Meters	1.6mm

HYBRID SIMPLEX PATCHCORDS 62.5µm - OM1

PART #	DESCRIPTION	LENGTH	JACKET SIZE
S28YM1FISC	ST-SC	1 Meter	3mm
S28YM2FISC	ST-SC	2 Meters	3mm
S28YM3FISC	ST-SC	3 Meters	3mm
S28YM5FISC	ST-SC	5 Meters	3mm
S28YM10FISC	ST-SC	10 Meters	3mm
S28YM15FISC	ST-SC	15 Meters	3mm
S28YM20FISC	ST-SC	20 Meters	3mm
Y2YLM1FISC	SC-LC	1 Meter	1.6mm
Y2YLM2FISC	SC-LC	2 Meters	1.6mm
Y2YLM3FISC	SC-LC	3 Meters	1.6mm
Y2YLM5FISC	SC-LC	5 Meters	1.6mm
Y2YLM10FISC	SC-LC	10 Meters	1.6mm
Y2YLM15FISC	SC-LC	15 Meters	1.6mm
Y2YLM20FISC	SC-LC	20 Meters	1.6mm
Y28LM1FISC	ST-LC	1 Meter	1.6mm
Y28LM2FISC	ST-LC	2 Meters	1.6mm
Y28LM3FISC	ST-LC	3 Meters	1.6mm
Y38LS5FISC	ST-LC	5 Meters	1.6mm
Y28LM10FISC	ST-LC	10 Meters	1.6mm
Y28LM15FISC	ST-LC	15 Meters	1.6mm
Y28LM20FISC	ST-LC	20 Meters	1.6mm

HYBRID SIMPLEX PATCHCORDS 62.5µm - OM1

PART #	DESCRIPTION	LENGTH	JACKET SIZE
D28YM1FISC	ST-SC	1 Meter	3mm
D28YM2FISC	ST-SC	2 Meters	3mm
D28YM3FISC	ST-SC	3 Meters	3mm
D28YM5FISC	ST-SC	5 Meters	3mm
D28YM10FISC	ST-SC	10 Meters	3mm
D28YM15FISC	ST-SC	15 Meters	3mm
D28YM20FISC	ST-SC	20 Meters	3mm
X2YLM1FISC	SC-LC	1 Meter	1.6mm
X2YLM2FISC	SC-LC	2 Meters	1.6mm
X2YLM3FISC	SC-LC	3 Meters	1.6mm
X2YLM5FISC	SC-LC	5 Meters	1.6mm
X2YLM10FISC	SC-LC	10 Meters	1.6mm
X2YLM15FISC	SC-LC	15 Meters	1.6mm
X2YLM20FISC	SC-LC	20 Meters	1.6mm
X28LM1FISC	ST-LC	1 Meter	1.6mm
X28LM2FISC	ST-LC	2 Meters	1.6mm
X28LM3FISC	ST-LC	3 Meters	1.6mm
X28LS5FISC	ST-LC	5 Meters	1.6mm
X28LM10FISC	ST-LC	10 Meters	1.6mm
X28LM15FISC	ST-LC	15 Meters	1.6mm
X28LM20FISC	ST-LC	20 Meters	1.6mm

Buy From Stock, Ship Today



APC SC-SC Simplex



APC SC-SC Duplex



APC LC-LC Simplex



APC LC-LC Duplex

SINGLEMODE SIMPLEX APC PATCHCORDS - OS2

PART #	DESCRIPTION	LENGTH	JACKET SIZE	PRICE
Y9LALAS1FISCU	LC-LC	1 Meter	1.6mm	
Y9LALAS2FISCU	LC-LC	2 Meters	1.6mm	
Y9LALAS3FISCU	LC-LC	3 Meters	1.6mm	
Y9LALAS5FISCU	LC-LC	5 Meters	1.6mm	
Y9LALAS10FISCU	LC-LC	10 Meters	1.6mm	
Y9LALAS15FISCU	LC-LC	15 Meters	1.6mm	
Y9LALAS20FISCU	LC-LC	20 Meters	1.6mm	
S9YAYAS1FISCU	SC-SC	1 Meter	3mm	
S9YAYAS2FISCU	SC-SC	2 Meters	3mm	
S9YAYAS3FISCU	SC-SC	3 Meters	3mm	
S9YAYAS5FISCU	SC-SC	5 Meters	3mm	
S9YAYAS10FISCU	SC-SC	10 Meters	3mm	
S9YAYAS15FISCU	SC-SC	15 Meters	3mm	
S9YAYAS20FISCU	SC-SC	20 Meters	3mm	
S97AYAY1FISCU	FC-SC	1 Meter	3mm	
S97AYAY2FISCU	FC-SC	2 Meters	3mm	
S97AYAY3FISCU	FC-SC	3 Meters	3mm	
S97AYAY5FISCU	FC-SC	5 Meters	3mm	
S97AYAY10FISCU	FC-SC	10 Meters	3mm	
S97AYAY15FISCU	FC-SC	15 Meters	3mm	
S97AYAY20FISCU	FC-SC	20 Meters	3mm	

SINGLEMODE DUPLEX APC PATCHCORDS - OS2

PART #	DESCRIPTION	LENGTH	JACKET SIZE
X9LALAS1FISCU	LC-LC	1 Meter	1.6mm
X9LALAS2FISCU	LC-LC	2 Meters	1.6mm
X9LALAS3FISCU	LC-LC	3 Meters	1.6mm
X9LALAS5FISCU	LC-LC	5 Meters	1.6mm
X9LALAS10FISCU	LC-LC	10 Meters	1.6mm
X9LALAS15FISCU	LC-LC	15 Meters	1.6mm
X9LALAS20FISCU	LC-LC	20 Meters	1.6mm
D9YAYAS1FISCU	SC-SC	1 Meter	3mm
D9YAYAS2FISCU	SC-SC	2 Meters	3mm
D9YAYAS3FISCU	SC-SC	3 Meters	3mm
D9YAYAS5FISCU	SC-SC	5 Meters	3mm
D9YAYAS10FISCU	SC-SC	10 Meters	3mm
D9YAYAS15FISCU	SC-SC	15 Meters	3mm
D9YAYAS20FISCU	SC-SC	20 Meters	3mm
D97AYAS1FISCU	FC-SC	1 Meter	3mm
D97AYAS2FISCU	FC-SC	2 Meters	3mm
D97AYAS3FISCU	FC-SC	3 Meters	3mm
D97AYAS5FISCU	FC-SC	5 Meters	3mm
D97AYAS10FISCU	FC-SC	10 Meters	3mm
D97AYAS15FISCU	FC-SC	15 Meters	3mm
D97AYAS20FISCU	FC-SC	20 Meters	3mm



Be More Profitable with the Cheetah and Armordillo Splice-On Connectors

Why You Should Buy FIS SOC's

- Make your job easier - 20+ versions of our SOC's for use with 900um, 1.6mm, 2.0mm, and 3.0mm cabling.
- The patented universal SOC holder enables you to use your existing FIS, AFL, Fitel, or Sumitomo splicer. Call to confirm compatibility for other manufacturers' models.
- Saving you time and money - Connector assembly in under 3 minutes.

Cheetah
Splice-On Connector
900µm version



FIS COMPACT NODE CABLES (SERVICE CABLES)

Fiber Instrument Sales' Compact Node is an epoxy based optical node cable assembly. Designed for HFC applications with the flexibility to fit aerial, pedestal and vault applications. The epoxy provides exceptional strength and mechanical isolation of the fibers. The compact length provides greater flexibility to install inside tight pedestals and other constricted applications. Central tube cable construction is easy to install and break-out in splice trays and enclosures. Available in various custom configurations up to 12 fibers.

PART #	DESCRIPTION
NC-3-BA-P-S-15-FIS-2	Node Cable 2 Fiber Loosetube Cable SM SC/APC – Pigtail, 15 Meters
NC-3-BA-P-S-15-FIS-4	Node Cable 4 Fiber Loosetube Cable SM SC/APC – Pigtail, 15 Meters
NC-3-BA-P-S-15-FIS-6	Node Cable 6 Fiber Loosetube Cable SM SC/APC – Pigtail, 15 Meters
NC-3-BU-P-S-15-FIS-2	Node Cable 2 Fiber Loosetube Cable SM SC/UPC – Pigtail, 15 Meters
NC-3-BU-P-S-15-FIS-4	Node Cable 4 Fiber Loosetube Cable SM SC/UPC – Pigtail, 15 Meters
NC-3-BU-P-S-15-FIS-6	Node Cable 6 Fiber Loosetube Cable SM SC/UPC – Pigtail, 15 Meters

**Custom
Loopbacks
Available**



FIS FIBER OPTIC TERMINATOR CONNECTORS

Low Reflection Terminators are designed for use in unused ports and reduce back reflection into fiber optic systems. Each connector is environmentally sealed for protection. Back Reflection APC = -65dB UPC = -55dB

PART #	DESCRIPTION
F1-0071	FIS ST/UPC Terminator Connector
F1-2071	FIS FC/UPC Terminator Connector
F1-3071	FIS SC/UPC Terminator Connector
F1-2072	FIS FC/APC Terminator Connector
F1-3072	FIS SC/APC Terminator Connector
F1-4071	FIS LC/UPC Terminator Connector
F1-4072	FIS LC/APC Terminator Connector



F1-2071

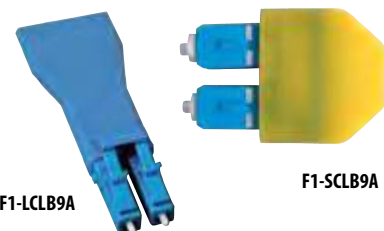


F1-3071

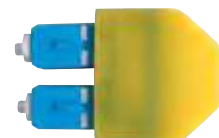
FIS LOOPBACK MODULES

Loopbacks are designed for testing, engineering and the burn-in stage of boards or other equipment. They provide system test engineers a simple but effective way of testing the transmission capability and receiver sensitivity of network equipment.

PART #	DESCRIPTION
F1-SCLB9A	SC Loopback SM 9/125µm Fiber
F1-SCLB62A	SC Loopback MM 62.5/125µm Fiber
F1-LCLB9A	LC Loopback SM 9/125µm Fiber
F1-LCLB62A	LC Loopback MM 62.5/125µm Fiber
F1-LCLB50A	LC Loopback MM 50/125µm Fiber



F1-LCLB9A



F1-SCLB9A

POLARIZATION MAINTAINING PATCH CABLE

For polarization-sensitive applications, FIS offers PM patch cables with UPC or APC connector finishes. Available in 900µm and 3mm jacketed versions. Important specifications need to be discussed with FIS Sales Associate upon ordering, such as: Alignment (slow or fast axis) Fiber Specifications, Cable Jacket (900µm buffer or 3.0mm), whether or not the purchased PM assemblies will be used for splicing. Contact FIS for additional specifications and pricing on PM jumpers of various lengths. **Specify Fibercore Limited PM fiber or Corning PM Fiber.**

PART #	DESCRIPTION
S-4-9A-9A-S-1-FIS	Simplex FC/APC - FC/APC, Slow Axis, 3.0mm Jacketed, Blue, 1 Meter
S-4-9U-9U-S-1-FIS	Simplex FC/UPC - FC/UPC, Slow Axis, 3.0mm Jacketed, Blue, 1 Meter
S-4-9U-9A-S-1-FIS	Simplex FC/UPC - FC/APC, Slow Axis, 3.0mm Jacketed, Blue, 1 Meter



S-4-9U-9U-S-1-FIS

DID YOU KNOW...

FIS Can Customize Patchcords, Cassettes & Cable Assemblies

STANDARD CONFIGURATIONS

Standard configurations (typical lead-time 2-4 days) – Convert your next project to “plug n’ go” by having your cable assemblies pre-terminated by FIS. Our expert technicians prepare assemblies from 1-fiber patchcords to 144-fiber assemblies, while offering a wide array of components for you to create the perfect assembly for your application. (Included to the right are manufacturing specifications for FIS’ pre-terminated assemblies to better help you prepare your installation.) If a need arises to change a specification to best meet your application, please call your FIS representative for more details (and refer to the custom configuration section on pages 19 and 20 to see the various services available.)

CUSTOM CONFIGURATIONS

Custom configurations (typical lead-time 3-5 days) – FIS has the ability to manufacture a variety of custom configurations. Our custom abilities include but are not limited to labeling, packaging, testing requirements, and building to customer supplied specifications and drawings. With our experienced sales and engineering teams, FIS can help create and produce a custom solution to meet almost any application.

LENGTH SPECIFICATIONS

SIMPLEX/DUPLEX

TOTAL LENGTH = -0/+3" (> 5 MTRS), -0/+10% (< 5 MTRS)
BREAKOUT = N/A
MAXIMUM CONNECTOR TO CONNECTOR = 1.5"

MULTIFIBER

TOTAL LENGTH = -0/+3" (> 5 MTRS), -0/+10% (< 5 MTRS)
BREAKOUT = 1 MTR (-0/+3")
MAXIMUM CONNECTOR TO CONNECTOR = 1.5"

TESTING SPECIFICATIONS

INSERTION LOSS

MULTIMODE = >= 0.4 dB (TYPICAL)
SINGLEMODE = >= 0.3 dB (TYPICAL)

RETURN LOSS

PC = </= -25dB
UPC = </= -55dB
APC = </= -60dB

FIS couplers and WDM's are designed, manufactured, and tested to meet a variety of high performance and environmental requirements. Our high quality couplers are available in single wavelength and dual window varieties in an assortment of split ratios. Our WDM's feature low insertion loss in combination with high isolation. All device types are available in bare fiber, 900µm, or 3mm ruggedized versions and can be terminated with your choice of connectors or installed in a variety of modules.

SINGLEMODE DUAL WINDOW COUPLERS/SPLITTERS

PART #	DESCRIPTION
250µm	Buffered Fiber
SDW13550122UC	1x2 (1310/1550nm) 50/50 Ratio
SDW13510122UC	1x2 (1310/1550nm) 10/90 Ratio
SDW13520122UCS	1x2 (1310/1550nm) 20/80 Ratio
SDW13530122UCS	1x2 (1310/1550nm) 30/70 Ratio
SDW13540122UCS	1x2 (1310/1550nm) 40/60 Ratio
SDW13550222UC	2x2 (1310/1550nm) 50/50 Ratio
900µm	Buffered Fiber
SDW13550129UCS	1x2 (1310/1550nm) 50/50 Ratio
SDW13550129UCS	1x2 (1310/1550nm) 10/90 Ratio
SDW13520129UCS	1x2 (1310/1550nm) 20/80 Ratio
SDW13530129UCS	1x2 (1310/1550nm) 30/70 Ratio
SDW13540129UCS	1x2 (1310/1550nm) 40/60 Ratio
SDW13550229UCS	2x2 (1310/1550nm) 50/50 Ratio
SDW1351X333333129CTS	1x3 (1310/1550nm) 33/33/33 Ratio

MULTIMODE COUPLERS/SPLITTERS (800-1600nm)

PART #	DESCRIPTION
250µm	
MMC28550122CTS	1x2 62.5/125µm Coupler 50/50 Ratio 250µm Fiber
MMC38550122CTS	1x2 50/125µm Coupler 50/50 Ratio 250µm Fiber
900µm	
MMC28550129CTS	1x2 62.5/125µm Coupler 50/50 Ratio 900µm Fiber
MMC28550229C	2x2 62.5/125µm Coupler 50/50 Ratio 900µm Fiber
MMC38550129CTS	1x2 50/125µm Coupler 50/50 Ratio 900µm Fiber

WAVELENGTH DIVISION MULTIPLEXERS

A Wave Division Multiplexer (WDM) is a coupler that enables you to channel a signal to multiple devices operating at different wavelengths.

PART #	DESCRIPTION
250µm	
WDM13550122UCS	1x2 5m Dual Window (1310/1550nm) WDM 250µm Fiber
900µm	
WDM13500129UC	1x2 5m Dual Window (1310/1550nm) WDM 900µm Fiber
WDM13500229UC	2x2 5m Dual Window (1310/1550nm) WDM 900µm Fiber



F1-PLC-08-SCU



RSC-1-S-2-50-Y-Y-3

PLANAR LIGHTWAVE CIRCUIT COUPLERS/SPLITTERS

Today's high-port-count applications for broadband system applications demand the best performance and the highest reliability under the most adverse of environments. Planar Lightwave Circuit Splitters deliver on all these requirements. FIS provides a variety of PLC's pre-terminated with SC/UPC, SC/APC or the connector of choice.

PART #	DESCRIPTION
F1PLC04	1x4 PLC Unconnectorized
F1PLC08	1x8 PLC Unconnectorized
F1PLC16	1x16 PLC Unconnectorized
F1PLC32	1x32 PLC Unconnectorized
F1-PLC-04-SCU	1x4 PLC with Fan Out & SC/UPC Connectors
F1-PLC-08-SCU	1x8 PLC with Fan Out & SC/UPC Connectors
F1-PLC-16-SCU	1x16 PLC with Fan Out & SC/UPC Connectors
F1-PLC-32-SCU	1x32 PLC with Fan Out & SC/UPC Connectors
F1-PLC-04-SCA	1x4 PLC with Fan Out & SC/APC Connectors
F1-PLC-08-SCA	1x8 PLC with Fan Out & SC/APC Connectors
F1-PLC-16-SCA	1x16 PLC with Fan Out & SC/APC Connectors
F1-PLC-32-SCA	1x32 PLC with Fan Out & SC/APC Connectors

RUGGEDIZED 2mm/3mm JACKETED COUPLERS/SPLITTERS

Install these ruggedized splitters into outdoor or indoor enclosures. The 2mm or 3mm furcated fiber legs offer extra protection when technicians are working in compact areas. The splitter/couplers are housed in a small plastic case; furcated fiber legs are attached with or without connectors installed. **Custom size jacketing/split ratios/connector styles available.**

PART #	DESCRIPTION
RSC-3-S-2-50-YA-2	Ruggedized Splitter, SM, 1 x 2, 50/50 split, SC/APC-SC/APC, 2mm jacketing
RSC-3-S-2-45-YA-2	Ruggedized Splitter, SM, 1 x 2, 55/45 split, SC/APC-SC/APC, 2mm jacketing
RSC-3-S-2-40-YA-2	Ruggedized Splitter, SM, 1 x 2, 60/40 split, SC/APC-SC/APC, 2mm jacketing
RSC-3-S-2-30-YA-2	Ruggedized Splitter, SM, 1 x 2, 70/30 split, SC/APC-SC/APC, 2mm jacketing
RSC-3-S-2-05-YA-2	Ruggedized Splitter, SM, 1 x 2, 90/5 split, SC/APC-SC/APC, 2mm jacketing
RSC-1-S-2-50-Y-Y-3	Ruggedized Splitter, 50µm, 1 x 2, 50/50 split, SC/PC-SC/PC, 3mm jacketing
RSC-1-S-2-40-Y-Y-3	Ruggedized Splitter, 50µm, 1 x 2, 60/40 split, SC/PC-SC/PC, 3mm jacketing

SPLITTER TAP LGX STYLE MODULES

These LGX modules are loaded with completely passive optical splitter packages and are configured to meet specific Test Access Point (TAP) requirements. They provide monitor access to live network links without disrupting service on the network. Custom configurations, split ratios and connector styles are available. **Additional optical TAPs pages 15-16.**

PART #	DESCRIPTION
RMC-3-S-2-50-YU-YU-6	LGX Style Module, 1x2, 50/50 split, SC/UPC
RMC-3-S-2-50-YA-YA-6	LGX Style Module, 1x2, 50/50 split, SC/APC
RMC-3-S-2-35-YU-YU-6	LGX Style Module, 1x2, 65/35 split, SC/UPC
RMC-3-S-2-20-YA-YA-6	LGX Style Module, 1x2, 80/20 split, SC/APC
RMC-3-S-2-10-YA-YA-6	LGX Style Module, 1x2, 90/10 split, SC/APC



RMC3S250YAYA6

1 UNIT – 7 CRITICAL FIBER OPTIC TESTS

A certification solution for contractors, supporting
FIS FTTx Zeus Solution



THUNDERBOLT

Fiber Optic Test Equipment

Gigabit
Analyzer



- 38dB Dynamic Range
- 6.5" LCD Color Screen
- 9 Pulse Widths
- 4 GB Storage
- SM, MM or Quad Versions

- OTDR
- Gigabit Analyzer
- Link Checker
- Power Meter
- Reporting Software
- Visual Fault Locator
- Connector Inspection Option

CALL US TODAY
1-800-5000-FIS(347)

PART

TB1315

TB8513

TBQUAD

F1D1000

DESCRIPTION

SM (1310/1550) OTDR with PM and VFL

MM (850/1300) OTDR with PM and VFL

SM/MM (850/1300/1310/1550) OTDR with PM and VFL

FIS digital USB inspection probe kit (tips included)



FIRECAT OTDR



The FIS Firecat OTDR provides an industry leading value with its low cost and easy functionality. This unit is perfect for both inexperienced and experienced technicians alike with its simple on screen 'soft key menus'. By providing the essentials for fiber optic troubleshooting, this OTDR is the perfect tool for basic link troubleshooting and is affordable enough for every truck, office or tool kit.

FEATURES:

- Dynamic Range - 23dB
- Lowest Cost OTDR in the Industry
- Easy Operation with 'Soft Key Menus'
- Small, Lightweight and Rugged
- Interchangeable Adapters
- Event Table and Auto-Test Modes
- USB Data Transfer
- Backlight Keypad and Screen for Easy Use in Dim Lighting Conditions
- Available in a Ruggedized Version for harsh conditions



Ruggedized Version

NOW AVAILABLE WITH APC OPTIONAL ADAPTER

FIRECAT-1310

Each Unit Includes: 110v AC adapter, Certification Software, Data Transfer Cable, SC Interchangeable Adapter, Soft Carry Case, and Instruction Manual.
When purchasing unit for 220v application, 220v adapter must be purchased separately.

PART #	DESCRIPTION
FIRECAT-850	Single Wavelength – Multimode 850nm
FIRECAT-1300	Single Wavelength – Multimode 1300nm
FIRECAT-1310	Single Wavelength – Singlemode 1310nm
FIRECAT-1550	Single Wavelength – Singlemode 1550nm
FIRECAT-8513	Dual Wavelength - Multimode 850/1300
FIRECAT-1315	Dual Wavelength – Singlemode 1310/1550
FIRECAT-QUAD	Quad Wavelength – MM/SM 850/1300/1310/1550

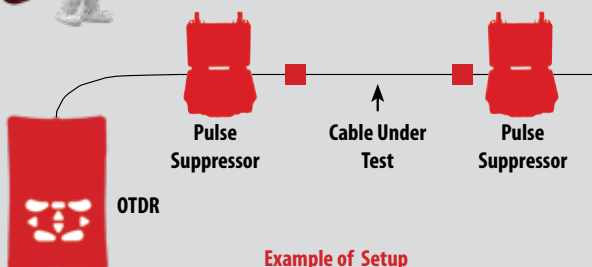
ACCESSORIES

PART #	DESCRIPTION
FIRECAT-AC110	AC Adapter 110v
FIRECAT-AC220	AC Adapter 220v
FIRECAT-CASE	Hard Carry Case
FIRECAT-USB	USB Flash Drive with Software
FIRECAT-CABLE	Data Transfer Cable
F1-FIRECAT-ST	ST Adapter
F1-FIRECAT-FC	FC Adapter
F1-FIRECAT-SC	SC Adapter

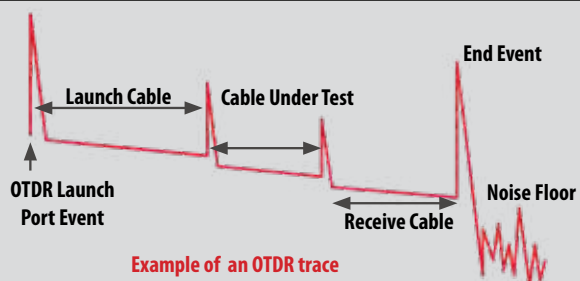


DID YOU KNOW... Utilizing Two Launch Cables (Pulse Suppressors) Allow Accurate Measurements

Using two (2) Pulse Suppressors, sometimes referred to as a launch and receive cable, allows a more accurate measurement of the cable link under test. It allows the pulse to settle down prior to the first connector on the cable link and lets the technician determine its insertion loss and back reflection (ORL). A receive cable placed on the far connector at the end of the cable is used to determine its insertion loss and back reflection (ORL).



Example of Setup



Example of an OTDR trace

STYLE #1

Dimensions: 5" Diameter
Fiber Capacity: 160 mtrs
(Pulse suppressor only)



RETRACTABLE LAUNCH CABLE F1-CC29YUYU1000 STYLE #9

Dimensions: 5" L x 6.75" W x 1.5" D
Fiber Capacity: 1000m



ARMORED LAUNCH CABLE

Dimensions: 4.5" Round Disk
Fiber Capacity: 1000m



DID YOU KNOW... PULSE SUPPRESSORS

Pulse Suppressors, also commonly referred to as OTDR Launch Boxes, Delay Lines or "Dummy Fibers," are used to occupy OTDR "Dead Zones" which enable accurate loss measurements on near-end and far-end connections of the fiber under test. Pulse Suppressors may also be used in an educational setting to simulate networks and during installation and troubleshooting. With the inclusion of additional loss points (fusion or mechanical splices, and/or connector events) the Pulse Suppressor becomes a Test Box for quick verification of your OTDR's calibrated accuracy. Generate an initial scan upon first use of your OTDR, then periodically check future scans against the reference to be sure the equipment is within calibrated range. FIS specializes in customization of Pulse Suppressors and Test Boxes!



STYLE #4

Dimensions: 14.2" x 11.4" x 6.5"
Fiber Capacity: 5,000 mtrs
Test Box:
1 Event - 5,000 mtrs,
2 Events - 4,500 mtrs,
3 Events - 4,000 mtrs



STYLE #5

Dimensions: 22" x 17" x 8"
Fiber Capacity: 50 km
Test Box: 1 Event - 45 km, 2 Events - 42.5 km, 3 Events - 40 km
*Also available 22" x 17" x 12.7"



STYLE #7

Dimensions: 8" x 6" x 4"
Fiber Capacity: 2200 mtr
Test Box: 1 Event - 750 mtr, 2 Events - 600 mtr, 3 Events - 400 mtr



BUILD YOUR CUSTOM PULSE OR TEST BOX

Use this chart to build the launch box you need to your exact specifications.

Custom Ribbon
MTP/MPO
Launch
Boxes

BOX PURPOSE	STYLE	FIBER #1 (CORE/CLAD)	FIBER LENGTH (IN METERS)	FIBER #2 (CORE/CLAD)	FIBER LENGTH (IN METERS)	INTERFACE	CONNECTOR FIBER 1 / FIBER 2
PS	2	3	200	0	0	B	7A/YA
PS= Pulse suppressor TB= Test Box Test box includes 1 or more events, must specify distance between events	1= #1 4= #4 5= #5 7= #7	1= 50/125µm - OM2 2= 62.5/125µm - OM1 3= 9/125µm - OS2 4= Other 8= BI 10G 50/125µm - OM3 9= ClearCurve® SM ZBL 10= BI 10G 50/125µm - OM4 12= 50µm 10Gig - OM5		0= none 1= 50/125µm - OM2 2= 62.5/125µm - OM1 3= 9/125µm - OS2 4= Other 8= BI 10G 50/125µm - OM3 9= ClearCurve® SM ZBL 10= BI 10G 50/125µm - OM4 12= 50µm 10Gig - OM5		(except boxes 1 and 8) P= Pigtailed R= Ruggedized Pigtailed	7U= FC/UPC 7A= FC/APC 8 = ST/PC LU= LC/UPC LA= LC/APC MU= MU/UPC YU= SC/UPC YA= SC/APC O= Other MT= MTP w/pins

Part # Example: PS-7-3-2000-0-0-P-YU/YA

Translates to: Pulse Suppressor in a Style 7 box with 2000 meters of 9/125µm fiber with (1) SC/UPC and (1) SC/APC Pigtail Interface

FIS LAUNCH BOX PART NUMBER/PRICE EXAMPLES XX - Indicates Connector Choice

PART #	DESCRIPTION
PS-1-3-100-0-0-P-YU-YU	Launch Disc, Style #1, 100m Singlemode, SMF28 Ultra, 1.5m Pigtailed, SC/UPC Connectors Both Ends
PS-1-2-100-0-0-P-8U-YU	Launch Disc, Style #1, 100m Multimode OM1, Infinicor300, 1.5m Pigtailed, ST/UPC - SC/UPC
PS-7-3-1000-0-0-P-YA-LU	Launch Box, Style #7, 1000m Singlemode, SMF28 Ultra, 1.5m Pigtailed, SC/APC - LC/UPC
PS-7-3-500-0-0-P-YA-YU	Launch Box, Style #7, 500m Singlemode, SMF28 Ultra, 1.5m Pigtailed, SC/APC - SC/UPC
PS-7-8-500-0-0-P-YU-LU	Launch Box, Style #7, 500m Multimode OM3, ClearCurveOM3, 1.5m Pigtailed, SC/UPC - LC/UPC
PS-A-500-YUYU	Armored Launch Box, 500m, Singlemode, 9/125, SC/UPC - SC/UPC
PS-A-500-YULU	Armored Launch Box, 500m, Singlemode, 9/125, SC/UPC - LC/UPC

Test Boxes - Call a FIS representative to confirm optical events and locations. Call for Pricing of Test Box.

FIS RETRACTABLE LAUNCH CABLE (STYLE #9)

PART #	DESCRIPTION
F1-FLS9LULU-1000	FIS Fiber Launch Cable SM 9/125, LC/UPC-LC/UPC 1000 meters
F1-FLS9YUYA-1000	FIS Fiber Launch Cable SM 9/125, SC/UPC- SC/APC 1000 meters (Not Pictured)
F1-FLS9YUYU-1000	FIS Fiber Launch Cable SM 9/125, SC/UPC-SC/UPC 1000 meters (Not Pictured)



FIS RUGGEDIZED POWER METER AND LIGHT SOURCE

FIS Ruggedized loss test sets are designed to withstand outdoor field environments where traditional handheld units are not appropriate. Units are available for both multimode and singlemode applications and run on re-chargeable NiCd batteries. Please specify ST or FC adapter style when ordering any FIS Ruggedized Test Equipment. The Power Meter has an easy to read LCD display and germanium detector incorporating three wavelength (850nm, 1300nm, 1550nm) measurement capability. The Light Source is a dual wavelength source with a continuous wave or 2KHz modulation. The 850nm and 1300nm light source are for multimode applications. The 1310nm and 1550nm Light Source are for singlemode applications.

PART #	DESCRIPTION
9086-0000	Ruggedized Light Source 850/1300nm with ST Adapters
9087-0000	Ruggedized Light Source 1310/1550nm with FC Adapters
9088-0000	Ruggedized Light Source 1490/1550nm with FC Adapters
F1-813RG	Ruggedized PM (0.01 Res) 850/1300nm LED Light Source (ST Interface)
F1-1315RG	Ruggedized PM (0.01 Res) 1310/1550nm Laser Light Source (FC Interface)
9080-0000	Ruggedized Power Meter with 2.5mm and 1.25mm Universal Adapter
1018-0000	Rugged Carry Case (See picture of Test Set Kit to the left)



FIS FIBER OPTIC TALK SET

The FIS Fiber Optic Talk Set units are designed for transmitting voice in both directions on a single fiber using two different wavelengths, 850/1300nm for the Multimode unit and 1310/1550nm for Singlemode. Units include adjustments for power and sensitivity. The built in VOX (sensitivity) circuit is meant to conserve battery power when the operator is not speaking. In addition the unit also comes with a rechargeable 9V 540mAh battery and a charging port for in-unit charging. The Talk Set comes standard with SC or FC adapter ports. The loss budget for our Multimode set is 15dB; the Singlemode set is 20dB. Finally, each Talk Set comes equipped with a stereo headset with boom microphone, providing comfort for long-term use and high performance.

Talk Set includes: (2) Units, (2) Headphones with Microphone, (2) 9V Batteries

PART #	DESCRIPTION
F1-9062TKS	FIS Singlemode/Multimode Talk Set (pair) w/ FC and SC Adapters



FIS E-SERIES PON POWER METER

Intended for Fiber to the Home applications, it is able to simultaneously test and provide power readings on the signals of voice, data and video. An ideal tool for construction and installation technicians. Features interchangeable adapters, calibrated for 1310/1490/1550nm wavelengths.

FEATURES

- Interchangeable adapters (FC & SC)
- Calibrated for 1310/1490/1550nm wavelengths
- Reporting with Data Storage
- User Defined Pass/Fail Thresholds

PART #	DESCRIPTION
F1-1345PONA	FIS PON Power Meter APC
F1-1345PONU	FIS PON Power Meter UPC

FIS FIBER RANGER

The FIS E-Series Fiber Ranger is a portable, hand-held fault finder. It adopts OTDR technology to detect the location of reflective faults with just the touch of one button fast and accurately. Uses 1550nm wavelength, and equipped with a VFL for continuity troubleshooting. Dynamic Range 20dB, Detects up to 4 events within approximately 60km.

PART #	DESCRIPTION
F1-FR15A	FIS Fiber Ranger (Fault Finder) - APC with VFL
F1-FR15U	FIS Fiber Ranger (Fault Finder) - UPC with VFL

FIS POWER METER AND LIGHT SOURCE KIT

Purchase either our hand held or ruggedized series power meter and light source together and receive a convenient carry case with reference cords and mating sleeves. Operating manuals and batteries included. Multimode sources standard with ST style interface, Singlemode sources standard with FC style interface. Power meters supplied with universal 2.5mm and 1.25mm adapter caps.

PART #	DESCRIPTION
F1-813LR	Hand Held PM (0.01dB Resolution) 850/1300nm Dual LED LS (ST Interface)
F1-1315LR	Hand Held PM (0.01dB Resolution) 1310/1550nm Dual Laser LS (FC Interface)
F1-1835LR	Hand Held PM (0.01 Res), 850/1300nm and 1310/1550nm Light Sources (FC/SM, ST/MM Interface)
F1-1835LRVFL	Hand Held PM (0.01 Res), 850/1300nm and 1310/1550nm Light Sources and VFL
F1-1345LR	Hand Held PM (0.01 Res) 1310nm 1490nm, 1550nm Laser Light Source (FC Interface)
F1-LRDLXCASE	Hard Case for 3 units (empty)

Custom Configurations Always Available! Please Call Today!



FIS E-SERIES POWER METER AND LIGHT SOURCE

The FIS E-Series Power Meter and Light Source provide an industry leading value for handheld test gear. With a new design for ease of use, LED backlight and referencing, technicians will have no problem testing and trouble shooting fiber optic links.

FEATURES

- Dual Light Sources
- Continuous Wave (CW) or 2kHz Modulation
- Auto Shut Off and Low Battery Indicator
- 60-Hour Typical Battery Life for Light Source
- 200-Hour Typical Battery Life for Power Meter
- Absolute Power Reference Display

Each Unit Includes: Operating Manual, 9V Battery and Carry Case.

PART #	DESCRIPTION
F1-8513PM	Power Meter with 0.01dB Resolution
F1-8513PMVF	Power Meter with VFL
F1-8513PMDATA	Power Meter with Data Storage (1,000 Files)
F1-8513PMCATV	CATV Power Meter with 0.01dB Resolution
F1-8513LS	Multimode Light Source, Dual 850/1300nm
F1-1315LS	Singlemode Light Source, Dual 1310/1550nm
F1-1316LSA	Triwave Light Source 1310/1550, 1625 APC Adapter (SC, FC, ST)
F1-1316LSU	Triwave Light Source 1310/1550, 1625 UPC Adapter (SC, FC, ST)
F1-1815SU	Quad Light Source 850/1300, 1310/1550, UPC Adapter (SC, FC, ST)

FIS POWER METER & LIGHT SOURCES

A power meter is the essential tool for measuring optical power within a fiber optic link. The FIS Power Meter is a solid performer, with 0.01dB resolution. Standard FIS units test from +5dBm to -65dBm, and FIS CATV units test from +23dBm to -45dBm. The FIS Light Source is the perfect match for the FIS Power Meter. Singlemode units are equipped with lasers having a typical output power of -1.0dBm. Multimode units have LED's with a minimum output of -17dBm.

POWER METER FEATURES

- Available with 1490nm Calibrated Wavelength
- 70-Hour Battery Life
- Low Battery Indicator
- CATV Version Available
- Built-in Stand for Easy Viewing
- Ruggedized Units Available for Harsh Outdoor Environments

Each Unit Includes: Operating Manual, 9V Battery, 2.5mm and 1.25mm Adapters, and Carry Case.

PART #	DESCRIPTION
F1-8513HR	Hand Held Power Meter with 0.01dB Resolution
F1-8513HRCATV	CATV Hand Held Power Meter with 0.01dB Resolution
F1-8513HR-4	0.01dB Resolution Power Meter with 1310/1490/1550nm
F1-8513HRCATV-4	CATV 0.01dB Resolution Power Meter with 1310/1490/1550nm
F1-8513UM	2.5mm Universal Adapter (ST, FC, SC) (Polymer)
F1-8513SC	SC Adapter
F1-8513ST	ST Adapter
F1-8513FC	FC Adapter
F1-8513LCMUM	1.25mm Universal Adapter (Polymer)
F1-9103U	Universal 110/220v AC Power Supply Adapter

LIGHT SOURCE FEATURES

- Single or Dual Light Sources
- Continuous Wave (CW) or 2kHz Modulation
- Auto Shut Off and Low Battery Indicator
- 30-Hour Typical Battery Life
- Built-in Stand for Easy Viewing
- Ruggedized Units Available for Harsh Outdoor Environments

Each Unit Includes: Operating Manual, 9V Battery and Carry Case.

PART #	DESCRIPTION
9052-0000	Dual 850/1300nm LED Light Source with ST Adapter
9055-0000	Dual 1310/1550nm Laser Source with FC Adapter
9056-0000	1490/1550nm Laser Light Source with FC Adapter
9058-0000	Dual 1300nm LED/1310nm Laser Source (ST and FC)
F1-9103U	Universal 110/220v AC Power Supply Adapter

FIS E-SERIES POWER METER AND LIGHT SOURCE KIT

The new FIS E-Series Power Meter and Light Sources are also available in Kits. These Kits come in either Singlemode, Multimode or Quad versions and with carrying case and all reference cords needed for testing any connection type you encounter.

PART #	DESCRIPTION
F1-8513KIT	Multimode Kit (Power Meter with 0.01dB Resolution and Multimode Light Source, Dual 850/1300nm)
F1-1315KIT	Singlemode Kit (Power Meter with 0.01dB Resolution and Singlemode Light Source, Dual 1310/1550nm)
F1-ESQUADKIT	SM/MM Kit (Power Meter, MM Light Sources 850/1300nm, SM Light Sources 1310nm/1550nm)

* Add a DS to the end of the part number if you want the Power Meter with Data Storage.



F1-1315LS

F1-8513PM



F1-8513HR



9050-0000





F1-CI1100



F1-DI1100

FIS FIBER OPTIC INSPECTION MICROSCOPE

The FIS Video Microscope is ideal for inspecting fiber optic connector endfaces in the field. This package combines a top quality Video Monitor and Handheld Inspection Probe in one affordable package. The probe comes with interchangeable tips that enable you to inspect both male connectors and female bulkhead adapters. A large 5.6" LCD screen displays endfaces at 200x to ensure that connectors are clean and free of defects.

MONITOR MODULE

- 3.5" TFT-LCD Screen with adjustable brightness and contrast
- 9.6V battery pack and AC power supply (4hr Life)
- Includes charger adapters for US, EU, UK and Australian standard

HANDHELD VIDEO INSPECTION PROBE

- 400x Magnification
- Resolution – 0.5µm detectable
- Manual focus adjustment

FEATURES

- Fast, easy focus with one hand operation
- Inspect patchcords (male) and in-adaptor connectors (female)
- Comprehensive line of tips for both PC and APC type connectors

PART #	DESCRIPTION
F1-DI1000	FIS Digital USB Inspection Probe, Fabric Case, 1.25mm/2.5mm LC, SC and Universal Tips
F1-CI1100	FIS Digital USB Inspection Probe and Monitor, Carry Case, 1.25mm/2.5mm LC, SC and Universal Tips
CVP20	IEC 61300 -3-35 Standard - Pass/Fail Analysis Software for F1DI1000

FIS PROBE ADAPTER TIPS

PART #	DESCRIPTION
F1-PT2U25APCM	Universal 2.5mm probe tip for APC male connectors
F1-PT2FSAPCF	Tip for SC and FC APC female connectors
PT2SCPCFL	Long Extended tip for SC PC female connectors
PT2LPCFL	Long Extended tip for LC PC female connectors
PT2MTPAPCEXT	Extended tip for MTP/APC 12-Fiber connectors

FIS VIDEO MICROSCOPE

The FIS Video Microscope is a natural choice for fast-paced production environments, where ease of use and fast, accurate inspections are a necessity. The microscope offers a high-resolution look at the end face of most standard connectors, with a choice of either 200x or 400x magnifications. The optics and internal components are designed to be rugged and reliable, with no user-serviceable parts. Image view only, no pass/fail software installed.

Each Package comes with: (1) Video Microscope, (1) 10" LCD monitor (monitor sizes may vary), (1) 6' Video Cable, (1) 2.5mm Universal Adapter

PART #	DESCRIPTION
F1-VM200LCD	200x Video System (110v)
F1-VM400LCD	400x Video System (110v)
F1-VM200PLCD	200x Video System (220v)
F1-VM400PLCD	400x Video System (220v)
F1-VM200USB	200x, USB (No LCD Monitor included)
F1-VM400USB	400x, USB (No LCD Monitor included)

MICROSCOPE ACCESSORIES

Adapters are for use with the FIS Video Microscope VM Series and F1-VS200/400U Series.

PART #	DESCRIPTION
F1-VS12U	Universal 1.25mm Adapter
F1-VS25	Universal 2.5mm Adapter
F1-VSAPC25	Universal 2.5mm APC Adapter
F1-VSLC	LC Simplex Adapter
F1-VSSMA	SMA Adapter



F1-VM400LCD

monitor sizes may vary

FIS UNIVERSAL 100x MICROSCOPE

The FIS Universal Microscope is provided with a 2.5mm universal faceplate. Insert the ferrule into the microscope and inspect the end face with ease. This complete 100x microscope is perfect for multimode connectors and is easy to use.

PART #	DESCRIPTION
F1-VSF25	LED Fiber Inspection Scope with Universal 2.5mm UPC/APC Adapter for SC/ST/FC
F1-VSF125	LED Fiber Inspection Scope with Universal 1.25mm UPC/APC Adapter for LC/MU



F1-VSF25

FIS 200x MINI FIBER MICROSCOPE

Utilize this compact scope to inspect connector ferrule end faces for dirt, debris or oils that may interfere with signal transmission. Scope has both Oblique and Coaxial white LED lighting.

Includes: Microscope, (3) 1.5v LR44 Button Batteries, 2.5mm adapter, 1.25mm adapter

PART #	DESCRIPTION
F1-MS200U	Compact 200x Microscope



F1-MS200U

FIS 200x AND 400x MICROSCOPE

These low cost, high quality microscopes are available in 200x or 400x magnification, and utilize white LED light to provide coaxial illumination of connector end faces. Three AAA batteries provide more than 40 hours of use before battery replacement is required. Provided with a universal 1.25mm and a 2.5mm adapter, with other connector styles available. Dimensions: 8.76"L x 2.16"H

PART #	DESCRIPTION
F1-VS200U	200x Microscope with 1.25mm and 2.5mm Universal Adapter
F1-VS400U	400x Microscope with a 1.25mm and 2.5mm Universal Adapter



F1-VS400U

Best Value
in the
Industry

FIS UNIVERSAL TESTING SLEEVE

Designed specifically for testing applications, the FIS Universal Testing Sleeve reduces labor time while testing fiber optic patch cables with standard for 2.5mm ferrules. Adapters for ST or FC reference cord are available.

PART #	DESCRIPTION
F1-81UNIV	FIS ST to 2.5mm Universal Test Adapter
F1-85UNIV	FIS FC to 2.5mm Universal Test Adapter



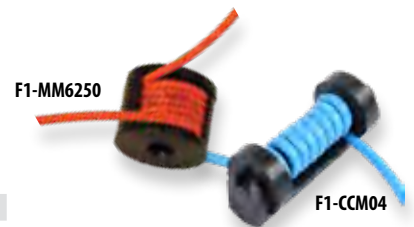
F1-81UNIV

F1-85UNIV

FIS MULTIMODE MANDRELS

The use of mandrels in multimode insertion loss testing helps to ensure the proper launch condition into the fiber under test. By wrapping the fiber around the correct size mandrel, high order modes are stripped out and low order modes are spread out to achieve the desired launch conditions for testing. Each includes the mandrel and clip for holding the cable firmly in place during testing. Accepts jacket diameters from 1.6mm to 3.0mm and for use both OM1, OM2 cable.

PART #	DESCRIPTION
F1-MM6250	62.5/125µm and 50/125µm Mandrel Kit
F1-CCM04	4mm ClearCurve Mandrel (1.6 - 2.0mm jacket recommended)



F1-MM6250

F1-CCM04

NEW


F1-85MPO

FIS MPO TEST SYSTEM

This 12 Fiber MPO/MTP Test Set will provide the technician with link attenuation readings over all 12 fibers of the MPO/MTP ferrule in 5 seconds. MPO/MTP connectors are growing in popularity so the ability to measure efficiently, quickly and accurately the correct location of each fiber and attenuation can assist technicians for certification. The test set will recognize A, B or C polarity wiring configurations used in the industry. Includes 2- MPO/MTP reference cables (Polarity A), 2-MPO mating sleeves, and 2-AC power adapters.

FEATURES

- Singlemode or Multimode Kits
- 12 Position Light Source and Power Meter
- Pass/Fail Reporting
- dBm/dB check criteria
- Select A, B or C Polarity
- USB Data Transfer

PART

F1-85MPO
F1-1310MPO
F1-1550MPO
18814

DESCRIPTION

FIS MPO 12 Fiber Test System (850nm Source)
FIS MPO 12 Fiber Test System (1310nm Source)
FIS MPO 12 Fiber Test System (1550nm Source)
MTP Pro Field Tool Polarity Pin

Fault Locators are a special class of light sources that emit a high intensity visible Red Laser into a patch cable or cable. This light can be used to both check the continuity of a fiber and identify the fiber's far end, or it can be used to visually identify the location of a fiber break. Most Fault Locators come optimized for singlemode fiber use; however they work equally as well with multimode fiber.



F1-9000



F1-9000VFL

FIS POCKET FAULT LOCATORS

PART #	OPERATING WAVELENGTH	DISTANCE	FIBER TYPE	BATTERY LIFE/TYPE	OPTICAL INTERFACE	DIMENSION	SPECIAL FEATURE
F1-9000	650nm	7km 5km	SM/MM	30hrs (2AA)	2.5mm Universal	7.1" x 0.86"	Rugged Aluminum Housing
F1-9000VFL	650nm	7km 5km	SM/MM	50hrs (2AA)	2.5mm Universal	8.7" x 1.4" x 1.2"	Standard Aluminum Housing

VFL ACCESSORIES

PART

DESCRIPTION

F1-90125 1.25mm Adapter (Compatible with PFL's using Universal 2.5mm Adapters)

FIS VISUAL FAULT LOCATOR

The FIS Visual Fault Locator is an essential tool for troubleshooting a fiber optic system. A 1mW packaged laser sends a 650nm visible red light down the length of the fiber. The escaping light allows easy identification of breaks or severe macro bends. Internal optics are used to optimize the unit's performance for either singlemode or multimode applications. Fiber end identification and continuity testing for long distances are also natural applications.

Each Unit Includes: Manual, (1) 9v Batteries, and Carry Case.

PART

DESCRIPTION

OF-1000-UF Visual Fault Locator with 2.5mm Universal Adapter (MM and SM)
OF-1000U-LC Visual Fault Locator with LC Adapter (MM and SM)
OF-1000U-FCA Visual Fault Locator with FC/APC Adapter (SM)
OF-1000U-SCA Visual Fault Locator with SC/APC Adapter (SM)

FIS CONTINUITY TESTER

A Continuity Tester enables you to easily verify light throughput as the LED transmits red light down the fiber, providing visual identification at the fiber's far end. Operates with two "AA" size batteries (provided). **Recommended for Multimode Use Only.** **Each Unit Includes:** Tester and (2) AA Batteries.

PART

DESCRIPTION

F1-5000U Fiber Continuity Tester 2.5mm Universal (ST, FC and SC)
F1-5000 Fiber Continuity Tester (ST)
F1-5000SMA Fiber Continuity Tester (SMA)
F1-5000FC Fiber Continuity Tester (FC)
F1-5000SC Fiber Continuity Tester (SC)
F1-5000LC Fiber Continuity Tester (LC)



OF-1000-UF

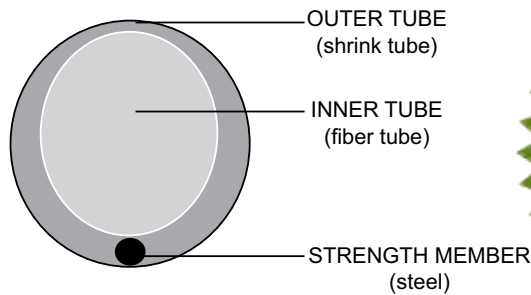


F1-5000 SC

ULTRASLEEVE® PROTECTION SLEEVE

Simply load the fused fiber and close the sleeve. No heat shrink curing, crimping or gluing. Ultrasleeve® features an acrylic foam tape, which seals the sleeve and protects from damage. The Ultrasleeve® splice protector can be closed by hand and is installed after the splice is completed.

PART #	DESCRIPTION
F1-FS60	60mm Splice Protection Sleeve



**CALL
FOR BULK
PRICING**

HEAT-SHRINK FUSION SPLICE PROTECTION SLEEVES

STANDARD SLEEVE — (3.0mm AFTER SHRINK)

This sleeve design represents the industry's most reliable, highest quality sleeve at an economical price. Standard lengths include 60mm and 40mm. Sleeves come standard with a clear outer tube for viewing the color of the fiber itself.

PART #	DESCRIPTION
F1-1002C-50	60mm, 50 pk (Clear)
F1-100240C-50	40mm, 50 pk (Clear)
F1-1002RC-50	60mm, 50 pk (Red)

SLIM SLEEVE — (2.5mm AFTER SHRINK)

These clear protection sleeves use reduced diameter components for a smaller finished product. The smaller diameter allows users to fit more splices into existing splice trays.

PART #	DESCRIPTION
F1-S25C-50	60mm, 50 pk (Clear)
F1-S2540C-50	40mm, 50 pk (Clear)

TAPERED SLEEVE — (3.0mm AFTER SHRINK)

This newly developed sleeve offers tapered ends designed to keep the metal strength member in proper position while in use. Available in 60mm and 40mm lengths.

PART #	DESCRIPTION
F1-1002T-50	60mm, 50 pk (Clear)
F1-100240T-50	40mm, 50 pk (Clear)

MICRO SLEEVE (1.5mm After Shrink) & MINI SLEEVE (2.0mm After Shrink)

Designed to fit smaller areas for splice storage are the Mini and Micro Protection Sleeves. Micro Sleeves will only accommodate 250µm coated fibers. Mini Sleeves will accommodate 900µm or 250µm coated fibers.

PART #	DESCRIPTION
MCR0140CFD-50	Micro 40mm, 50 pk (Clear)
MCR0125CFD-50	Micro 25mm, 50 pk (Clear)
MINI140CDS-50	Mini 40mm, 50 pk (Clear)
MINI125CDS-50	Mini 25mm, 50 pk (Clear)

RIBBON SPLICE PROTECTION SLEEVE

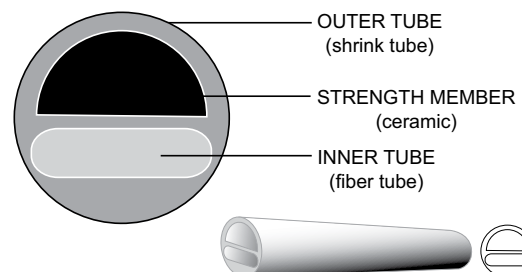
FIS offers two ribbon sleeve styles: Dual Strength Member and Single Strength Member. The Dual Strength Member design eliminates any undue stress on the ribbon, creating a perfectly flat exit for the ribbon. Available with a ceramic strength member.

PART #	DESCRIPTION
F1-10112DP-50	Dual Member 40mm, 50pk (Clear)
F1-10112CP-50	Single Member 40mm, 50pk (Clear)

DIELECTRIC SPLICE PROTECTION SLEEVE — (3.0mm After Shrink)

Our Dielectric sleeves are manufactured with a non-metallic strength member for the ultimate in corrosion and electrical resistance.

PART #	DESCRIPTION
F1-DE60-50	60mm, Clear
F1-DE40-50	40mm, Clear



F1-DE40-50



Splice-On Connector Compatible

Quantity Pricing Available

FEATURES

- Fast Splice Time — SM 7s Quick Mode / 18s Heat Time
- Rugged 4.3" Tempered Glass LCD Touch Screen
- Typical 130 Cycles (Splice and Heat) / Single Battery (Two Batteries Standard with Kit)
- Perfect for use with Splice-On Connectors



Standard kit package with precision cleaver and two extended life batteries



Rugged 4.3" tempered glass LCD touch screen monitor



Compact Core Alignment Splicer

FIS CA3 CORE ALIGNMENT SPLICER

The CA3 Core Alignment Fusion Splicer is designed with the splice technician in mind. The CA3 offers fast splice and heating times, excellent environmental performance, and a standard kit package with precision cleaver and two extended life batteries. Users have the option of operating the unit with integrated hard keys, or a new ultra-sensitive 4.3" LCD (tempered glass) touch screen. Fast, low-loss splice performance and compatibility with FIS Cheetah Splice-On Connectors make this fusion splicer perfect for premise and long haul OSP applications.

PART # DESCRIPTION

F1-CA3F	CA3 Core Alignment Splicer Kit with Precision Cleaver, Cheetah SOC Holder and (2) Batteries
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CA3 ACCESSORIES

PART # DESCRIPTION

F1-CA3BAT	CA3 Battery Module
F1-CA3PM	CA3 Power Supply Module
F1-CA3PC	CA3 Power Cord
F1-CA3ET	CA3 Spare Electrodes
F1-SOCMTLCA3	Cheetah Splice-On Connector Holder

NEW



F150CAC5



FIS AC-5 SOC HANDHELD FUSION SPLICER KIT

The FIS AC-5 Active Clad Fusion Splice kit is an affordable, and effective kit solution for doing fiber to fiber splicing as well as for FIS' line of Cheetah and Armordillo Splice on Connectors. With Industry leading splice time of 6 seconds per splice, the kit also comes with our 900um SOC holder and 3.0mm cordage holder, standard crimp tool for the 3.0mm Armordillo solution, and our FIS external SOC oven for your large form SOC terminations. A solution for all of your splicing needs, the FIS AC5 Termination Kit will exceed your expectations, and more importantly, stay under your budget.

Kit Contents: FIS AC5 Active Clad Alignment splicer w/ AFL Fujikura CT-08A cleaver, FIS Universal SOC Oven (900um, 2.0mm, and 3.0mm), FIS Metal Cheetah SOC Holder for the FIS AC5 splicer, FIS Crimp Tool for the 3mm SOC, FIS SOC 3mm Cordage Holder for AC5 Splicer, Power cords, Hard case, and USB Thumb Drive (manual and software)

FEATURES

- Two camera, active cladding alignment
- 5" touchscreen monitor
- Interchangeable sheath clamps and fiber holders
- Fully ruggedized for shock, moisture and dust resistance
- Extended-life electrodes, 5,000 splices, exchangeable without tools
- Long-life battery (200 splices/shrinks per charge)

PART

DESCRIPTION

F1-SOC-ACS	Splice-On Connector Termination Kit (Fusion Splicer, Cleaver, SOC Oven)
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F1-LYNX

F1-LYNX2000

F1-LYNX3000

FIS LYNX™ PRECISION CLEAVER

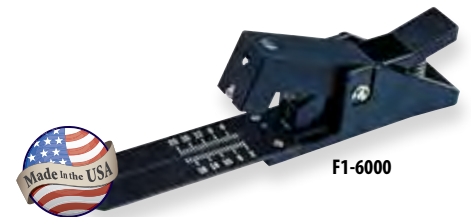
The LYNX provides clean, accurate cleaves required for fusion splicing. LYNX is also ideal for preparing fiber for quick-term style connectors such as Bobtails, UNICAMs and other pre-polished connectors. LYNX features a cleave angle of 90 degrees +/- 0.5 degrees. Its 16-position blade provides approximately 48,000 cleaves. LYNX cleaves single fibers (250-900µm). The LYNX Precision Cleaver can be used alone or mounted to an optional Work Tray that includes a goose neck LED.

PART #	DESCRIPTION
F1-LYNX	FIS LYNX 3-Step Precision Cleaver
F1-LYNX2000	FIS LYNX 1-Step Precision Cleaver
F1-LYNX3000	FIS LYNX 1-Step Precision Cleaver w/ Auto-Rotating Blade
F1-LYNXBLADE	FIS LYNX Replacement Blade

FIELD CLEAVERS

Suitable for use with quick-term connectors and optimal for mechanical splicing. The cleaver provides a guide for variable cleave lengths from 5-20mm. The blades will perform over 6,000 cleaves before replacement is necessary. The score and snap function is easy to use and preferred by many installers.

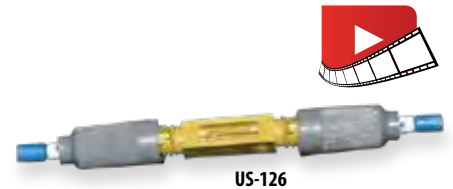
PART #	DESCRIPTION
F1-6000	FIS Cleaver
S315X02	Replacement Leaf Spring
F1-60CBL	FIS Replacement Blade (Carbide)
F1-60DBL	FIS Replacement Blade (Diamond)


F1-6000

FIS ULTRASPLICE (Mechanical Splice)

The ULTRASplice® is a high performance, easy to install reusable mechanical splice. It accepts fiber buffer sizes from 250µm-900µm. The average loss is .2dB with a fiber retention of over 2 lbs. Cleave, insert the fibers and secure by twisting a locking nut. US-126 is IBM #33G8228. Meets and exceeds Telcordia specifications.

PART #	DESCRIPTION
US-126	Singlemode / Multimode Universal ULTRASplice®


US-126

FIS LOCK JAW (Mechanical Splice)

With a self-gripping clamshell design this unique splice allows users to achieve a superior pull strength of 1.5 lbs by simply using super glue. Its design allows use in several splice trays, accepts 125µm clad Singlemode or Multimode with a typical loss of .2dB. Also available in the FIS Mechanical Splice Kit.

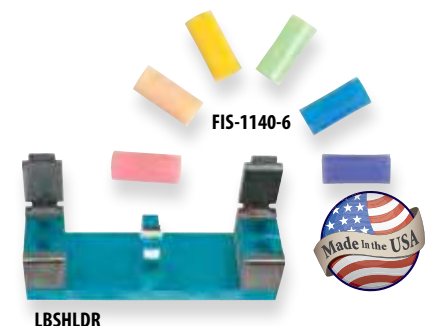
PART #	DESCRIPTION
F1-MC125	Splice for 125µm Clad Fiber, SM or MM
F1-MC1255K	Splice Kit - (6) splices, cleaver, adhesive, cleaner and strip tool


F1-MC125

ELASTOMERIC TEMPORARY LAB SPLICE

The improved FIS Elastomeric Lab Splice is ideal for making temporary fiber connections and can be reused hundreds of times. To use the splice for instrument testing, simply insert a cleaved pigtail from OTDR or Power Meter and the cleaved unconnectorized fiber to be tested. Excellent for both Multimode and Singlemode fiber, the splice accepts fiber cladding diameters of 125µm to 140µm. The Lab Splices are supplied in blister packs of 6 (containing one of each color: pink, peach, yellow, green, blue and purple) or 12 (containing 2 of each color.)

PART #	DESCRIPTION
FIS-1140-6	Pack of 6
FIS-1140-12	Pack of 12
LBSHLDR	Holder


FIS-1140-6
LBSHLDR

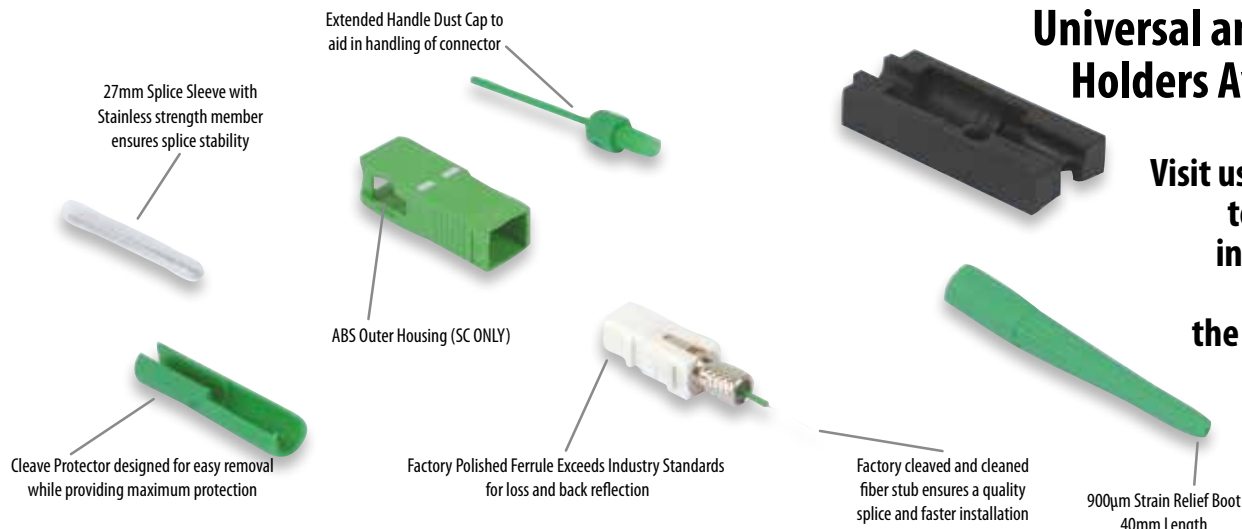
Cheetah™

Splice-On Connector

Terminations in Less than 3 Minutes!

Universal and Custom Holders Available

Visit us on our website
to view the
instructional
video on
the Cheetah SOC



FIS CHEETAH SOC™

The FIS Cheetah SOC™ is the quickest pre-polished factory terminated pigtail to prepare, splice and install. The Cheetah SOC™ 27mm splice protection sleeve is encapsulated and protected by the strain relief boot eliminating the need for splice trays, chips and extra cabinets. When used with the required universal holder the SOC can be used with a variety of fusion splicers.

Each 900µm Cheetah SOC™ Includes: Connector, Cleave Protector, Extended Dust Cap, 900µm Boot, and Fusion Splice Sleeve.

PART #	DESCRIPTION
F1-LCAPC-SOC-X	LC/APC Singlemode, Green 900µm Boot
F1-LCUPC-SOC-X	LC/UPC Singlemode, White 900µm Boot
F1-LC62-SOC-X	LC/PC 62.5µm Multimode (OM1), Beige 900µm Boot
F1-LC50-SOC-X	LC/PC 50µm Multimode (OM2), Black 900µm Boot
F1-LCOM3-SOC-X	LC/PC 50µm Multimode (OM3), Aqua 900µm Boot
F1-LCOM4-SOC-M-X	LC/PC 50µm Multimode (OM4), Magenta 900µm Boot (Magenta Housing)
F1-LCOM4-SOCAQ-X	LC/PC 50µm Multimode (OM4), Aqua 900µm Boot (Aqua Housing)
F1-SCAPC-SOC-X	SC/APC Singlemode, Green 900µm Boot
F1-SCUPC-SOC-X	SC/UPC Singlemode, White 900µm Boot
F1-SC62-SOC-X	SC/PC 62.5µm Multimode (OM1), Beige 900µm Boot
F1-SC50-SOC-X	SC/PC 50µm Multimode (OM2), Black 900µm Boot
F1-SCOM3-SOC-X	SC/PC 50µm Multimode (OM3), Aqua 900µm Boot
F1-SCOM4-SOC-X	SC/PC 50µm Multimode (OM4), Magenta 900µm Boot
F1-STUPC-SOC-X	ST/UPC Singlemode, White 900µm Boot
F1-ST62-SOC-X	ST/PC 62.5µm Multimode (OM1), Beige 900µm Boot
F1-ST50-SOC-X	ST/PC 50µm Multimode (OM2), Black 900µm Boot
F1-STOM3-SOC-X	ST/PC 50µm Multimode (OM3), Aqua 900µm Boot
F1-FCAPC-SOC-X	FC/APC Singlemode, Green 900µm Boot
F1-FCUPC-SOC-X	FC/UPC Singlemode, White 900µm Boot
F1-FC62-SOC-X	FC/PC 62.5µm Multimode (OM1), Beige 900µm Boot
F1-FC50-SOC-X	FC/PC 50µm Multimode (OM2), Black 900µm Boot
F1-FCOM3-SOC-X	FC/PC 50µm Multimode (OM3), Aqua 900µm Boot

***When ordering replace the "X" to specify 10= 10packs, 100= 100packs.**

900µm CHEETAH SOC™ ACCESSORIES

PART #	DESCRIPTION
F1SOCMTLCA3	FIS Metal SOC Holder for FIS CA3 Splicer
F1-SOCMTLA	FIS Metal SOC Holder for the AFL Splicers
F1-SOCMTLF	FIS Metal SOC Holder for the OFS Fitel Splicers
F1SOCSLAF2	FIS Metal SOC Holder for the OFS Fitel Splicers (NINJA and S179)
F1-SOCMTLS	FIS Metal SOC Holder for the Sumitomo Splicers
F1-UNIVSOCOVEN	Cheetah and Armordillo Splice-On Connector Sleeve Oven

**Contact FIS
To Fit A Holder
Into Your Legacy
Splicer Today!**



3mm / 2mm FIS ARMORDILLO™ SOC

Using a factory-terminated and pre-polished connector, the Armordillo Splice-On Connector (SOC) provides a connection that meets or exceeds industry standards for loss and back reflection. The Splice-On Connector is provided with a factory-cleaved 900um fiber stub to ensure ease of use and optimal performance.

The unique 3mm and 2mm boot allows the entire splice to be concealed and protected. The addition of an extended brass crimp ring provides extra protection to the splice and utilizes the Kevlar for maximized pull strength. The Armordillo is designed to work with FIS, Fitel, AFL and Sumitomo splicers and cleavers (cordage fiber holders required). The Universal SOC Oven can shrink the inner tube in 45 seconds.

- Splice-On solution for 3mm and 2mm applications
- Splice protection encapsulated and protected by the extended brass crimp ring and strain relief boot
- Same ease of use as the 900um SOC

Each Armordillo SOC Includes: Connector, Cleave Protector, Extended Dust Cap, 3mm Boot, Extended Brass Crimp Ring, and Protection Sleeve

PART #	DESCRIPTION
F1-LCAPC-SOC-A-X	LC/APC Singlemode, Green 3.0/2.0mm Boot
F1-LCUPC-SOC-A-X	LC/UPC Singlemode, White 3.0/2.0mm Boot
F1-LC62-SOC-A-X	LC/PC 62.5um Multimode (OM1), Beige 3.0/2.0mm Boot
F1-LC50-SOC-A-X	LC/PC 50um Multimode (OM2), Black 3.0/2.0mm Boot
F1-LCOM3-SOC-A-X	LC/PC 50um Multimode (OM3), Aqua 3.0/2.0mm Boot
F1-LCOM4M-SOC-A-X	LC/PC 50um Multimode (OM4), Magenta 3.0/2.0mm Boot (Magenta Housing)
F1-LCOM4A-SOC-A-X	LC/PC 50um Multimode (OM4), Aqua 3.0/2.0mm Boot (Aqua Housing)
F1-SCAPC-SOC-A-X	SC/APC Singlemode, Green 3.0/2.0mm Boot
F1-SCUPC-SOC-A-X	SC/UPC Singlemode, White 3.0/2.0mm Boot
F1-SC62-SOC-A-X	SC/PC 62.5um Multimode (OM1), Beige 3.0/2.0mm Boot
F1-SCOM3-SOC-A-X	SC/PC 50um Multimode (OM3), Aqua 3.0/2.0mm Boot
F1-SCOM4M-SOC-A-X	SC/PC 50um Multimode (OM4), Magenta 3.0/2.0mm Boot (Magenta Housing)
F1-STUPC-SOC-A-X	ST/UPC Singlemode, White 3.0/2.0mm Boot
F1-ST62-SOC-A-X	ST/PC 62.5um Multimode (OM1), Beige 3.0/2.0mm Boot
F1-ST50-SOC-A-X	ST/PC 50um Multimode (OM2), Black 3.0/2.0mm Boot
F1-STOM3-SOC-A-X	ST/PC 50um Multimode (OM3), Aqua 3.0/2.0mm Boot

***When ordering replace the "X" to specify 10= 10packs, 100= 100packs.**

3/2mm ARMORDILLO SOC™ ACCESSORIES

PART #	DESCRIPTION
F1-UNIVSOCOVEN	Cheetah and Armordillo Splice-On Connector Sleeve Oven
F1-SOC-30FISHLDR	FIS 3.0mm SOC Cordage Holder for FIS (CA3) Splicer
F1-SOC-30FTLHLD	FIS 3.0mm SOC Cordage Holder for Fitel Splicers
F1-SOC-30AFLHLD	FIS 3.0mm SOC Cordage Holder for AFL Splicers
F1-SOC-30SHLDR	FIS 3.0mm SOC Cordage Holder for Sumitomo Splicers
F1-SOC-30CRIMPTOOL	FIS Crimp Tool (Die and Handle) for the 3.0/2.0mm SOC
F1-SOC-30STRIPCHART	3.0/2.0mm SOC Strip Chart



FIS Armordillo SOC™

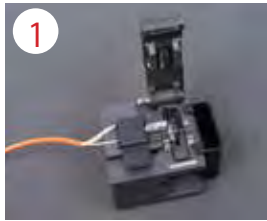


F1-SOC-30FISHLDR

FIS CHEETAH & ARMORDILLO SOC COMPATIBILITY CHART

Manufacturer	Splicer Model	SOC Holder	2.0mm/3.0mm Cordage Holder	Cleaver * For Cordage Holder Only
FIS	CA3	F1SOCMTLCA3	F1SOC30FISHLDR	LYNX CT50 CT08 S326A
	AC5	F1SOCMTLAC5	F1SOC30AC5HLDR	
AFL/Fujikura	31S	F1SOCMTLA	F1SOC30AFLHLDR	CT50 CT08
	41S			
	19S			
	62S+			
	70S+			
Furukawa/Fitel	S153	F1SOCMTLF	F1SOC30FTLHLDR	S326A
	S178			
	S179	F1SOCSLAF2		
	NINJA			
Sumitomo	Q102-CA	F1SOCMTLS	F1SOC30SHLDR	FC6RSC FC8R
	Q101-VS			
	QH201E			

Call a FIS Sales Representative for a complete list of compatible tools.



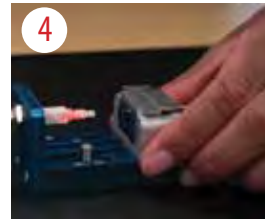
CLEAVE



LOAD IN HOLDER



LOAD FIBER



SLIDE FIBER INTO
CONNECTOR and MAKE
CONNECTION



EPOXY FIBER
INTO PLACE

THE 2 MINUTE CONNECTION

SATISFACTION GUARANTEED

FIS BOBTAIL™ NO-POLISH CONNECTOR (No Fiber Polishing Required)

FIS Bobtail Connectors provide a pre-polished, quick termination style connector for an industry leading value. Bobtail's are ideal for many applications including, but not limited to, local area networks, restoration work, testing applications, and laboratory settings. The open epoxy canal allows application of Crazy Glue, Super Glue or any Cyanoacrylate adhesives. As always, your satisfaction is guaranteed or return the connectors to FIS for a complete refund.

PART #	DESCRIPTION	BOOT SIZE
F1-0066-BT	Bobtail ST Pre-polished Connector - 62.5µm (OM1)	900µm
F1-006650-BT	Bobtail ST Pre-polished Connector - 50µm (OM2)	900µm
F1-0069-BT	Bobtail ST Pre-polished Connector - Singlemode	900µm
F1-5066-BT	Bobtail LC Pre-polished Connector - 62.5µm (OM1)	900µm
F1-506650-BT	Bobtail LC Pre-polished Connector - 50µm (OM2)	900µm
F1-5069-BT	Bobtail LC Pre-polished Connector - Singlemode	900µm
F1-3066-BT	Bobtail SC Pre-polished Connector - 62.5µm (OM1)	900µm
F1-306650-BT	Bobtail SC Pre-polished Connector - 50µm (OM2)	900µm
F1-3069-BT	Bobtail SC Pre-polished Connector - Singlemode	900µm



ST

SC

LC



BOBTAIL™
CONNECTOR

**Improved
Performance
Request a Free
Connector
Sample!**

FIS BOBTAIL™ PULL FORCE (LBS.) VS . COMPETITION

	Connector A (leading competitor)	Connector B (leading competitor)	Bobtail™ Connector
Test #1	.6*	1.7	1.7
Test #2	.5*	1.8	1.3
Test #3	.4	1.8	1.2
Test #4	.5	2.1	1.9
Test #5	1.0*	1.3	2.1
Test #6	.8	1.6	2.3
	.6 lbs. average	1.71 lbs. average	1.75 lbs. average

* Connector broke off fiber

SEE ONLINE VIDEO:

www.fiberinstrumentsales.com/information/fis-tv-videos/bobtail-connector

CAUTION:

FIS discourages the use of the Bobtail or any mechanical splice style connector in 10 G network systems.



FIS FTX QUICK TERMINATION CONNECTOR

The new quick termination fiber optic SC/APC and SC/APC connector is available in two variations to install onto Singlemode 3mm jacketed or 900um fiber. Intended for Fiber to "x" applications such as home, antenna or Multi-Dwelling residences it meets Telcordia GR-326 Core test standards. As with all field terminated mechanical connectors utilizing a precision cleaver is necessary for best performance.



F1-SCAFTX9



F1-SCAFTX3

PART #	DESCRIPTION
F1SCAFTX3	SC/APC Quick termination mechanical splice connector, 3mm cable strain relief boot
F1SCAFTX9	SC/APC Quick termination mechanical splice connector, 900um fiber strain relief boot
F1SCUFTX3	SC/APC Quick termination mechanical splice connector, 3mm fiber strain relief boot
F1SCUFTX9	SC/APC Quick termination mechanical splice connector, 900um fiber strain relief boot
F1FTXKIT	FIS FTX Field Termination Kit (Tri-hole stripper, Kevlar Cutter, Lynx Cleaver, shard container, wipes)

FIS FIBER OPTIC ADAPTER KIT

The FIS fiber optic adapter kit provides installers with all the popular mating sleeves to test or plug in fiber optic cables. **Perfect for Installers.**

PART # DESCRIPTION

F1-ADPTKIT FIS Adapter Kit (includes 24 adapters)

KIT CONTENTS (CONTAINS TWO OF EACH):

LC-LC, LC/APC-LC/APC, SC-SC, SC/APC-SC/APC, ST-ST, FC-FC, FC/APC-FC/APC, FC/APC-SC/APC, SC-FC, FC-ST, SC-ST, MU-MU



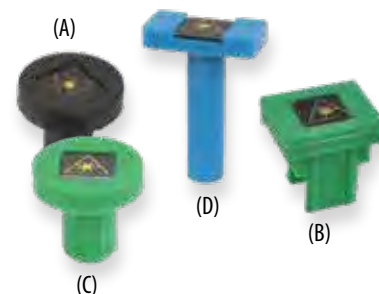
LASER SAFETY CAPS FOR MATING SLEEVES WITH METAL TILE

FIS has created a solution to the problem of laser light emitted from fiber optic bulkhead adapters. Our new Laser Safety Caps come with a warning symbol on each to visually alert people to potentially harmful exposure to laser light and cap has a built-in metal tile to stop laser light up to +18dBm. They are available for SC, LC, ST and FC style. Replace X with the color desired: BL=Black, BU=Blue, GR=Green, BE=Beige AQ=Aqua.

PART # DESCRIPTION

F1-BLSCST-X25	ST Bulkhead Laser Safety Cap - (25 pk.)	(A)
F1-BLSCSC-X25	SC Bulkhead Laser Safety Cap - (25 pk.)	(B)
F1-BLSCFC-X25	FC Bulkhead Laser Safety Cap - (25 pk.)	(C)
F1-BLSCLC-X25	LC Bulkhead Laser Safety Cap - (25 pk.)	(D)

CL-Clear	BU-Blue	BL-Black	SL-Slate	BE-Beige	GR-Green	AQ-Aqua
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METAL CAP AND CHAINS

PART # DESCRIPTION

F1-9229-LC	Cap and Chain for LC Mating Sleeves
F1-9229-SC	Cap and Chain for SC Mating Sleeves
F1-9229-ST	Cap and Chain for ST Mating Sleeves
F1-9229-CH	Cap and Chain for FC Mating Sleeves

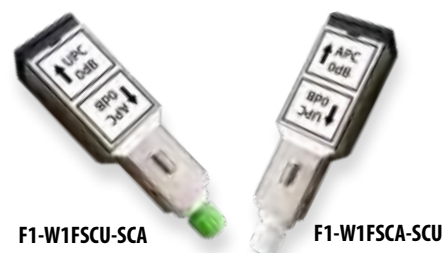


MALE – FEMALE ADAPTERS

Note: When purchasing these adapters be aware of the fiber type indicated and match to your application.

PART #	DESCRIPTION	HOUSING	SLEEVE
F1-W1FSCA-SCU*	SC/APC Female to SC/UPC Male (Singlemode)	Metal	Zirconia
F1-W1FSCU-SCA*	SC/UPC Female to SC/APC Male (Singlemode)	Metal	Zirconia

* Traditionally UPC and APC connectors have been incompatible to mate together due to the air-gap created between the two mating ferrules. This air-gap creates both undesirable high attenuation and high reflection in your network. The FIS M/F UPC-APC adapters allow UPC and APC fiber optic links to be mated together, adding flexibility to your network, while creating less than 1.0dB of Insertion Loss and -50dB of Return Loss.



BUFFERED FIBER ADAPTERS

A Buffered Fiber Adapter enables you to make a quick, temporary connection to a cleaved buffered fiber without the need to connectorize. ST, FC, SC and SMA style adapters available. **Not recommended for use with test equipment.**

PART # DESCRIPTION

F1-8194	ST Buffered Fiber Adapter (For Use 900µm buffer)
F1-8294	FC Buffered Fiber Adapter (For Use 900µm buffer)
F1-8494	SC Buffered Fiber Adapter (For Use 900µm buffer)
F1-8394	SM 905 Buffered Fiber Adapter (For Use 900µm buffer)





F1-8705-CSTSCS
ST (male) - SC (female) (Singlemode)
Metal Housing
Zirconia Sleeve



F1-8705-CSCFCS
SC (male) - FC (female) (Singlemode)
Polymer Housing
Zirconia Sleeve



F1-8705-CSTFCS
ST (male) - FC (female) (Singlemode)
Metal Housing
Zirconia Sleeve



F1-8705-SCSCS
SC (male) - SC (female) (Singlemode)
Polymer Housing
Zirconia Sleeve



F1-8705-CSCST
SC (male) - ST (female) (62.5/125µm)
Polymer Housing
Zirconia Sleeve



F1-8705-STST
ST (male) - ST (female) (62.5/125µm)
Metal Housing
Zirconia Sleeve



F1-8705-SMA
SMA (male) - ST (female) (62.5/125µm)
Polymer Housing
Zirconia Sleeve



F1-LCSCMF
LC (male) - SC (female) (Singlemode)
Polymer Housing
Zirconia Sleeve



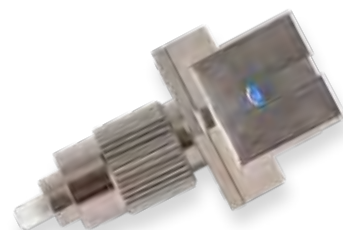
F1-SCLCMF
SC (male) - LC (female) (Singlemode)
Polymer Housing
Zirconia Sleeve



F1-FCLCMF
FC (male) - LC (female) (Singlemode)
Metal Housing
Zirconia Sleeve



F1-8705-CSCSTS
SC (male) - ST (female) (Singlemode)
Polymer Housing
Zirconia Sleeve



F1-8705-CFCCS
FC (male) - SC (female) (Singlemode)
Metal Housing
Zirconia Sleeve

*50µm and 62.5µm available!



F1-4732
SMA905 (female) - ST (female) (SM/MM)
Metal Housing
Zirconia Sleeve



F1-29202
ST (female) - FC (female) (SM/MM)
Metal Housing
Zirconia Sleeve



F1-19202
SC (female) - ST (female) (SM/MM)
Metal Housing
Zirconia Sleeve



F1-34202
SC (female) - FC (female) (SM/MM)
Metal Housing
Zirconia Sleeve



F1-2821CC
FC/APC (female) - SC/APC (female) (Square Flange)
Metal Housing
Zirconia Sleeve



F1-2822CC
FC/APC (female) - SC/APC (female) (Rectangular Flange)
Metal Housing
Zirconia Sleeve



F1-SCLFF
SC (female) - LC (female)
Polymer Housing
Zirconia Sleeve



F1-SCMUFF
SC (female) - MU (female)
Polymer Housing
Zirconia Sleeve



106172-0000
FC (female) - ST (female) (SM/MM)
Metal Housing
Zirconia Sleeve



F1-LCMUFF
LC (female) - MU (female) (SM/MM)
Polymer Housing
Zirconia Sleeve

***Don't See What You Are Looking
For Call Us Today!***

1-800-5000-FIS(347)



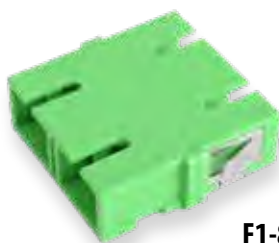
F1-8350NF
Multimode - 10 Gig - Aqua (No Flange)
SC
Style 5
Polymer Housing
Zirconia Sleeve



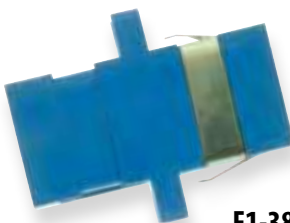
F1-4800NF
Singlemode APC - Green (No Flange)
SC APC
Style 5
Polymer Housing
Zirconia Sleeve



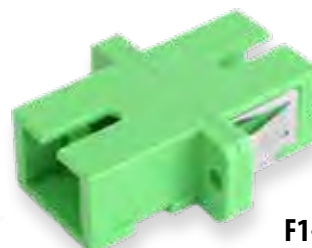
F1-8601NF
Duplex Singlemode - Blue (No Flange)
SC
Style 5
Polymer Housing
Zirconia Sleeve



F1-8701NF
Duplex Singlemode APC - Green (No Flange)
SC APC
Style 5
Polymer Housing
Zirconia Sleeve



F1-3810BC
Singlemode - Blue
SC
Style 3
Polymer Housing
Zirconia Sleeve



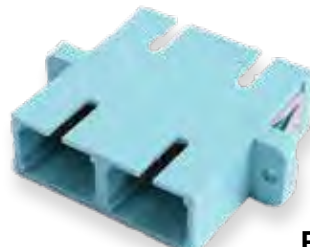
F1-4800T
Singlemode APC - Green
SC APC
Style 3
Polymer Housing
Zirconia Sleeve



F1-8600ET
Duplex Multimode - Beige
SC
Style 5
Polymer Housing
Phos. Bronze Sleeve



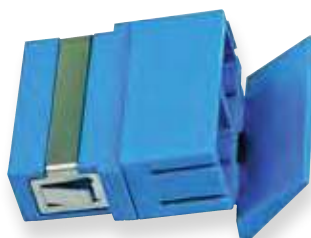
F1-8620
Duplex Multimode - Black
SC
Style 3
Polymer Housing
Phos. Bronze Sleeve



F1-8650
Duplex Multimode - 10 Gig - Aqua
SC
Style 3
Polymer Housing
Zirconia Sleeve



F1-8601
Duplex Singlemode - Blue
SC
Style 3
Polymer Housing
Zirconia Sleeve



F1-SCRD
Duplex Singlemode - Blue (No Flange)
SC
Style 5 with Shutter
Polymer Housing
Zirconia Sleeve

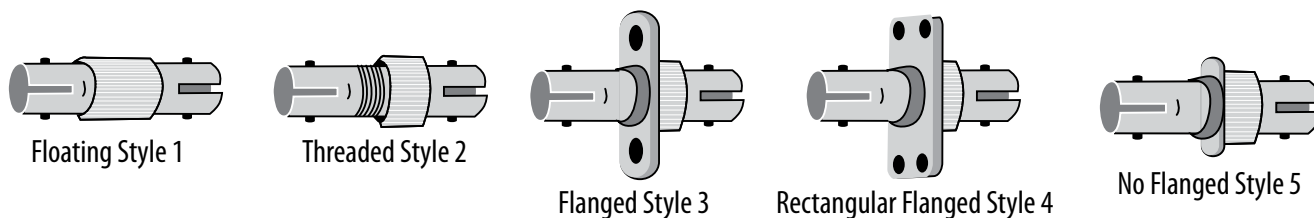


F1-8701
Duplex Singlemode APC - Green
SC APC
Style 3
Polymer Housing
Zirconia Sleeve

Fiber optic adapters, also referred to as mating sleeves, come in a variety of configurations to meet almost any application.

Standard fiber optic adapters are simplex, duplex and quad structure and are female-to-female type orientation. Use the chart to help in the selection of an adapter style for your application.

Please refer to “style” Columns when making your selection.



F1-8018
Duplex APC - Green
LC APC
Style 3 - SC Footprint
Polymer Housing
Zirconia Sleeve



F1-8008
Singlemode - APC - Green
LC APC
Style 1
Polymer Housing
Zirconia Sleeve



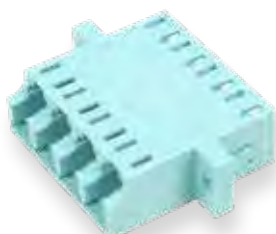
F1-8040
Quad Multimode-Beige
LC - Style 3
SC Duplex Footprint
Polymer Housing
Phos. Bronze Sleeve



F1-8030
Duplex Multimode-Beige
LC
Style 3 - SC Footprint
Polymer Housing
Phos. Bronze Sleeve



F18005NF
Singlemode -Blue (No Flange)
LC
Style 5
Polymer Housing
Zirconia Sleeve



F1-8041
Quad Multimode -10 Gig - Aqua
LC - Style 3
SC Duplex Footprint
Polymer Housing
Phos. Bronze Sleeve



F1-8035
Duplex Singlemode-Blue
LC - Style 3
SC Footprint
Polymer Housing
Zirconia Sleeve



F1-8050
Duplex MM -10 Gig - Aqua
LC - Style 3
SC Footprint
Polymer Housing
Phos. Bronze Sleeve



F1-8020CNF
Duplex Multimode-Beige (No Flange), Square
LC
Style 5
Polymer Housing
Zirconia Sleeve



F1-8010NF
Duplex Singlemode - Blue
(No Flange), Square
LC
Style 5
Polymer Housing
Zirconia Sleeve



F1-LCAD02R
Duplex Singlemode - Blue
LC
SC Footprint
Style 3 with Shutter
Polymer Housing
Zirconia Sleeve



F1-8045NF
Quad Singlemode-Blue (No Flange)
LC
Style 5
Polymer Housing
Zirconia Sleeve



F1-8000A
Multimode-Beige
LC
Style 1
Polymer Housing
Phos. Bronze Sleeve



F1-8015NF
Duplex Singlemode APC -
Green (No Flange)
LC APC
Style 5 - with SC Footprint
Polymer Housing
Zirconia Sleeve



F1-8050NF
Duplex Multimode - 10
Gig Aqua (No Flange)
LC - Style 5
SC Footprint
Polymer Housing
Zirconia Sleeve



F1-8102SS
ST



8119
ST



6113
ST



106110-1000
ST



F1-8501S
FC



F1-8520
FC



8211APC
FC



106152-0100
FC



F1-890M
MT-RJ



106102-0000
MT-RJ



F1-5910S
MU



F1-5915
MU

ST ADAPTERS

PART #	TYPE	STYLE	HOUSING	SLEEVE
FIS				
F1-8102SS	Multimode	2	Metal	Phos. Bronze
F1-8200A	Singlemode	2	Metal	Zirconia
3M™				
6112	Multimode	2	Metal	Phos. Bronze
8119	Singlemode	2	Metal	Zirconia
6113	Duplex Multimode	2	Metal	Phos. Bronze
8113	Duplex Singlemode	2	Metal	Zirconia

MOLEX

106113-0000	Multimode - Black	2	Polymer	Polymer
106110-1000	Singlemode	2	Metal	Zirconia
106110-0000	SM / MM - Black	2	Polymer	Zirconia

MTP® ADAPTERS

PART #	DESCRIPTION	COLOR
MTP-ADPT	MTP Adapter, Full Flange, Key Up to Key Down (Type A)	Black
G-9299QUAD	MTP Adapter, Screw Mount 30 Degree Angle, Key Up to Key Down (Type A)	Black
MTP-RFADPT	MTP Adapter, Reduced Flange, Key Up to Key Down (Type A)	Black
12219	MTP Adapter, Full Flange, Key Up to Key Down (Type A)	Aqua
5306	MTP Adapter, Full Flange, 1 Dust Cap, Key Up to Key Up (Type B)	Gray
12196	MTP Adapter, Full Flange, 2 Dust Cap, Key Up to Key Up (Type B)	Gray
12228	MTP Adapter SC Footprint Reduced Flange	Green

FC ADAPTERS

PART #	TYPE	STYLE	HOUSING	SLEEVE
FIS				
F1-8501SZ	Multimode	4	Metal	Zirconia
F1-8510	Multimode	2	Metal	Phos. Bronze
F1-8520	SM / MM	2	Metal	Zirconia
F1-8521S	Singlemode - APC	4	Metal	Zirconia
F1-8525	Singlemode - APC	2	Metal	Zirconia

3M™

8211	Singlemode	2	Metal	Zirconia
8211APC	Singlemode - APC	2	Metal	Zirconia

MOLEX

106152-0100	SM / MM	4	Metal	Zirconia
106152-1000	SM / MM	2	Metal	Zirconia
106152-3000	Singlemode - APC	2	Metal	Zirconia

MU ADAPTERS

PART #	TYPE	HOUSING	SLEEVE
F1-5910S	Singlemode	Simplex - Polymer	Zirconia
F1-5915	Singlemode	Duplex - Polymer	Zirconia

MT-RJ ADAPTERS

PART #	TYPE	STYLE	HOUSING
F1-890M	SM / MM	SC Footprint	Polymer
106102-0000	SM / MM	3	Polymer

MTP



MTP-ADPT
Standard Foot Print

MTP



MTP-RFADPT
Standard Foot Print

MTP



12228
SC Foot Print

MTP



12219
SC Foot Print



F1-8721AXX
FC



F1-8731AXX
SC UPC



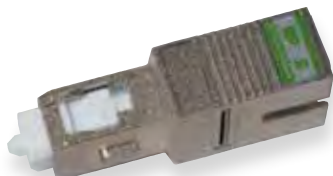
F1-9521AXX
MU



F1-9621AXX
ST



F1-8751AXX
FC APC



F1-8741AXX
SC APC



F1-8761AXX
LU UPC



F1-8771AXX
LC APC

MALE-TO-FEMALE ATTENUATORS

FIS male-to-female attenuators contain doped fiber suitable for both 1310nm and 1550nm operation. Fixed attenuation values are available in 1dB increments from 1 to 20dB. FIS stocks standard 5, 10, 15, 20dB attenuation levels in most styles.

Tolerance: 1 - 5dB (± .5dB); 6-20dB (±10%dB); 21-30dB (± 2dB)

ORL: ≥ 50dB UPC / ≥ 60dB APC

TO SPECIFY ATTENUATION LEVEL REPLACE "XX" with desired attenuation level ex. 01=1dB, 02=2dB, 03=3dB, 04=4dB, etc. (Attenuators up to 20dB in stock.)

PART #	DESCRIPTION
F1-8721AXX	FC/UPC Male to Female Attenuator
F1-8751AXX	FC/APC Male Female Attenuator
F1-8731AXX	SC/UPC Male to Female Attenuator
F1-8741AXX	SC/APC Male Female Attenuator
F1-9621AXX	ST/UPC Male to Female Attenuator
F1-8761AXX	LC/UPC Male to Female Attenuator
F1-8771AXX	LC/APC Male to Female Attenuator
F1-9521AXX	MU/UPC Male to Female Attenuator

FIS BULKHEAD FEMALE-TO-FEMALE ATTENUATORS

FIS Bulkhead Attenuators utilize a wavelength sensitive neutral density filter to achieve attenuation. Available in 5, 10, 15 and 20dB values. Select from 1310nm or 1550nm options.

ST ATTENUATOR 1310nm

PART #	DESCRIPTION
F1-8121SSC	FIS 5dB ST Attenuator for 1310nm
F1-8122S10C	FIS 10dB ST Attenuator for 1310nm
F1-8123S15C	FIS 15dB ST Attenuator for 1310nm
F1-8124S20C	FIS 20dB ST Attenuator for 1310nm



ST ATTENUATOR 1550nm

PART #	DESCRIPTION
F1-8125S	FIS 5dB ST Attenuator for 1550nm
F1-8126S	FIS 10dB ST Attenuator for 1550nm
F1-8127S	FIS 15dB ST Attenuator for 1550nm
F1-8128S	FIS 20dB ST Attenuator for 1550nm

SC ATTENUATOR 1310nm

PART #	DESCRIPTION
F1-8321S	FIS 5dB SC Attenuator for 1310nm
F1-8322S	FIS 10dB SC Attenuator for 1310nm
F1-8323S	FIS 15dB SC Attenuator for 1310nm
F1-8324S	FIS 20dB SC Attenuator for 1310nm



SC ATTENUATOR 1550nm

PART #	DESCRIPTION
F1-8325S	FIS 5dB SC Attenuator for 1550nm
F1-8326S	FIS 10dB SC Attenuator for 1550nm
F1-8327S	FIS 15dB SC Attenuator for 1550nm
F1-8328S	FIS 20dB SC Attenuator for 1550nm

FIS BULK ADAPTERS

FIS multimode and singlemode ST, SC, LC and FC adapters bulk packaged in lots of 100 pieces. These adapters offer the best value in performance and cost savings.

PART #	DESCRIPTION
F1-8102SS-100	FIS MM ST - (100 pk.)
F1-8200C-100	FIS SM ST - (100 pk.)
F1-8020NF-100	FIS MM LC Duplex - (100 pk.)
F1-8010NF-100	FIS SM LC Duplex - (100 pk.)
F1-8520-100	FIS SM FC Style 2 - (100 pk.)
F1-3800BC-100	FIS MM SC Beige - (100 pk.)
F1-3810BC-100	FIS SM SC Blue - (100 pk.)
F1-4800BC-100	FIS SM SC/APC Green - (100 pk.)
F1-8600ET-100	FIS MM SC Duplex - (100 pk.)



Other part
numbers
available upon
request

F1-3800BC-100



Duplex LC- 10G



Simplex LC- 10G



Simplex SC APC



Simplex SC UPC

The LC connector licensed by Lucent Technologies provides a pull-proof design and small size perfect for high-density applications. Available in simplex or duplex versions. The LC connector is provided with a 1.25mm zirconia ferrule. The LC also incorporates a unique latching mechanism providing stability in system rack mounts.

LC EPOXY CONNECTORS

PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE
F1-5066	Simplex-MM	3.0mm	128µm	Zirconia
F1-5066AQ	Simplex-MM 10 Gig	3.0mm	126µm	Zirconia
F1-506616AQ	Simplex-MM 10 Gig	1.6-2.0mm	128µm	Zirconia
F1-506616	Simplex-MM	1.6-2.0mm	128µm	Zirconia
F1-5066900	Simplex-MM	900µm	128µm	Zirconia
F1-5069	Simplex-SM	3.0mm	126µm	Zirconia
F1-506916	Simplex-SM	1.6-2.0mm	126µm	Zirconia
F1-5069900	Simplex-SM	900µm	126µm	Zirconia
F1-5069APC	Simplex APC	3.0mm	126µm	Zirconia
F1-5069900APC	Simplex APC	900µm	126µm	Zirconia
F1-6066	Duplex-MM	3.0mm	128µm	Zirconia
F1-606616	Duplex-MM	1.6-2.0mm	128µm	Zirconia
F1-6069	Duplex-SM	3.0mm	126µm	Zirconia
F1-606916	Duplex-SM	1.6-2.0mm	126µm	Zirconia
F1-6069900	Duplex-SM	900µm	126µm	Zirconia
F1-6066AR	Anaerobic-MM	3.0mm	128µm	Zirconia
F1-6067	Duplex Mini LC-SM - Blue	1.6mm	126µm	Zirconia
F1-6068AQ	Duplex Mini LC-MM - 10 Gig	1.6mm	127µm	Zirconia
F1-6068	Duplex Mini LC-MM - Beige	1.6mm	127µm	Zirconia

The Mini LC Connector is designed with a narrow ferrule pitch (5.25mm) to work with the Mini SFP (mSFP) transceiver.

The SC is a non-optical disconnect connector with a 2.5mm pre-radiused zirconia ferrule. Available in simplex and duplex styles, this connector features a push-pull connection design for quick patching of cables into rack or wall mounts. Utilize the reusable duplex holding clip to create duplex connections.

SC EPOXY CONNECTORS

PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE
F1-3066	Multimode	3mm	127µm	Zirconia
F1-306620	Multimode	2mm	127µm	Zirconia
F1-3066900	Multimode	900µm	127µm	Zirconia
F1-3061	Multimode	3mm	127µm	Stainless Alloy
F1-3069	Singlemode	3mm	126µm	Zirconia
F1-306920	Singlemode	2mm	126µm	Zirconia
F1-3069900	Singlemode	900µm	126µm	Zirconia
F1-3069APC	Singlemode APC	3mm	126µm	Zirconia
F1-3069900APC	Singlemode APC	900µm	126µm	Zirconia
F1-3069APC20	Singlemode APC	2mm	126µm	Zirconia
F1-3066AR	Multimode (Anaerobic)	3mm	125µm	Zirconia
F1-3066AQ	Multimode 10 Gig	3.0mm	127µm	Zirconia
F1-3066AQ20	Multimode 10 Gig	1.6/ 2.0mm	127µm	Zirconia
F1-3066AQ900	Multimode 10 Gig	900µm	127µm	Zirconia
F1-CLBK	Duplex Clip (Black for Multimode)			
F1-CLBL	Duplex Clip (Blue for Singlemode)			

**Simplex ST****Simplex ST**
Stainless Alloy Ferrule**Simplex**
FC APC**Simplex FC**
Stainless Alloy Ferrule

The ST connector utilizes a bayonet twist-lock connection with 2.5mm ferrule. Available in Singlemode and Multimode, the ST connector features reliable and durable field installation. The design of the ST connector enables installers to crimp the back of the body directly onto the cable jacket and Kevlar®. This eliminates cable pull-away, ensuring a strong termination. Upon request, FIS ST connectors can be supplied without FIS markings. Stainless alloy ferrules can be custom drilled.

ST EPOXY CONNECTORS

PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE
F1-0066	Multimode	3mm	127µm	Zirconia
F1-006620	Multimode	2mm	127µm	Zirconia
F1-0066900BLK	Multimode	900µm	127µm	Zirconia
F1-0067	Multimode	3mm	140µm	Zirconia
F1-0069	Singlemode	3mm	126µm	Zirconia
F1-006920	Singlemode	2mm	126µm	Zirconia
F1-0069900	Singlemode	900µm	126µm	Zirconia
F1-0061	Multimode	3mm	127µm	Stainless Alloy
F1-0061R	Multimode	3mm	125µm	Stainless Alloy
F1-006120	Multimode	2mm	127µm	Stainless Alloy
F1-0063	Multimode	3mm	140µm	Stainless Alloy
F1-0064	Multimode	3mm	230µm	Stainless Alloy
F1-0065	Plastic Fiber	3mm	1000µm	Stainless Alloy
F1-1066AR	Multimode (Anaerobic)	3mm	125µm	Zirconia
F1-0066AQ	Multimode - 10 Gig	3mm	127µm	Zirconia
F1-0066AQ20	Multimode - 10 Gig	2mm	127µm	Zirconia
F1-0066AQ900	Multimode - 10 Gig	900µm	127µm	Zirconia

FC connectors are specifically designed for telecommunication applications and provide non-optical disconnect performance. Designed with a threaded coupling for durable connections. The ferrule is PC finished to a pre-radius, which ensures low back reflection. Stainless alloy ferrules can be custom drilled to your specifications. All FIS FC connectors use narrow key (2.0mm).

FC EPOXY CONNECTORS

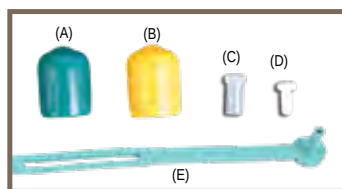
PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE
F1-2073	Multimode	3mm	127µm	Zirconia
F-1207320	Multimode	2mm	127µm	Zirconia
F1-2073900	Multimode	900µm	127µm	Zirconia
F1-2777	Multimode	3mm	140µm	Zirconia
F1-2771	Multimode	3mm	128µm	Stainless Alloy
F1-2772	Multimode	3mm	140µm	Stainless Alloy
F1-2774	Multimode	3mm	230µm	Stainless Alloy
F1-2070	Singlemode	3mm	126µm	Zirconia
F1-207020	Singlemode	2mm	126µm	Zirconia
F1-2070900	Singlemode	900µm	126µm	Zirconia
F1-2070APC	Singlemode - APC	3mm	126µm	Zirconia
F1-2070APC20	Singlemode - APC	2mm	126µm	Zirconia
F1-2070900APC	Singlemode - APC	900µm	126µm	Zirconia
F1-2073AQ	Multimode - 10 Gig	3mm	127µm	Zirconia
F1-2073AQ900	Multimode - 10 Gig	900µm	127µm	Zirconia



F1-0031-40C

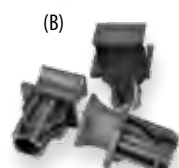


F1-2250



F1-ADCAP-BU

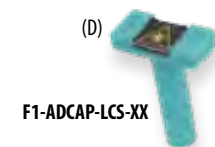
931-CAP-W



F1-ADCAP-SC



F1-ADCAP-LC



F1-ADCAP-LCS-XX



F1-ADCAP-STS-XX



SPIRALBOOT25

VARIABLE ATTENUATORS

This Variable Attenuator uses collimator lens technology enabling the user to change attenuation through the twist of a top-mounted screw. Use this variable attenuator to simulate the loss in a fiber system or testing your system's dynamic range. A power meter and light source can be used to determine the fixed attenuation value your system requires. The attenuator has a 0.8dB typical insertion loss and is available in a 2 meter length and may be connectorized. A low back reflection style is prepared with ultra PC connectors maintaining the internal low back reflection characteristics. Attenuation range: 0.8dB to 60dB. **Ask FIS Representative about installing connectors of choice.**

PART #	DESCRIPTION
F1-0031-40C	SM Attenuator 8-9µm Core (2 Meter Unconnectorized) Return Loss <-40dB
F1-1033-35C	MM Attenuator 62.5µm Core (2 Meter Unconnectorized) Return Loss <-35dB
F1-0031-LBR	SM Low Back Reflection Attenuator with FC/UPC Connector Return Loss <-50dB

AIR-GAP VARIABLE ATTENUATORS

The Air-Gap Variable Attenuator has a ceramic alignment sleeve that provides a low insertion loss of .15dB and can be used on both Multimode and Singlemode applications. Included tool provides ability to increase attenuation to desired "level". Device may replace mating sleeve at the patch panel, enabling variable attenuation levels to be introduced to the system. Attenuation range is 0dB to 20dB.

PART #	DESCRIPTION
F1-2250	Air-Gap Variable ST Attenuator
F1-2251	Air-Gap Variable FC Attenuator

FIS ST, SMA OR FDDI FIXED ATTENUATORS

The washer style attenuator is placed at the light source, spacing the mated connectors to cause attenuation. The attenuators of various thicknesses are not assigned specific dB values, several factors will dictate actual loss.

PART #	DESCRIPTION
A450-FIS	ST Attenuators (Qty. 5), 1 Each Color
A40D-FIS	SMA Attenuators (Qty. 5), 1 Each Color
A450-FDDI	FDDI Attenuators (Qty. 10), 2 Each Color
A450-20	ST Attenuators (Qty. 10), State Color
A40D-20	SMA Attenuators (Qty. 10), State Color

TYPICAL ATTENUATION LEVELS (Installed At Light Source)

COLOR	850nm (dB)	1300nm (dB)
Red	2.5	7.4
Blue	3.6	9.1
Green	4.8	10.2
Gold	5.5	11.3
Silver	6	11.7

FERRULE PROTECTION CAPS

FIS protection caps are designed to provide protection against various elements that could damage either the ferrule or fiber. The universal clear protection caps fit ST, FC and SC style 2.5mm ferrules.

PART #	DESCRIPTION
CPCYGR-B	Green Dust Cap Covers FC Housing (A) (100 pk.)
CPCY-B	Yellow Dust Cap Covers FC Housing (B) (100 pk.)
CAPB-B	Universal Clear Cap for 2.5mm Ferrules (C) (100 pk.)
F1-0125	Universal Dust Cap for 1.25mm Ferrules (D) (100 pk.)
F1-0125SA-100	Universal Dust Cap for 1.25mm Ferrules with jacket strap Aqua (E) (100 pk.)
F1-0125SBK-100	Universal Dust Cap for 1.25mm Ferrules with jacket strap Black (100 pk.)
F1-90010M	Universal Dust Cap for 2.5mm Ferrules with jacket strap (100 pk.)

MATING SLEEVE ADAPTER CAPS

The dust caps for adapters are easy to misplace and now FIS makes them just as easy to replace. Available in multiple colors, see chart above. Replace XX with the color desired: BL=Black, BU=Blue, GR=Green, BE=Beige AQ=Aqua.

PART #	DESCRIPTION	
F1-ADCAP-100-BU	SC Mating Sleeve Adapter Dust Cap, Blue - 100 pk.	A
F1-ADCAP-100-CL	SC Mating Sleeve Adapter Cap, Clear - 100pk	
F1-ADCAP-SC	SC Mating Sleeve Click-in Style Adapter Cap, Black - 100pk.	B
F1-ADCAP-LC	LC Mating Sleeve Round Head Adapter Cap, White - 100pk.	C
F1-ADCAP-LCS-XX	LC Mating Sleeve Square Head with Laser Warning Sticker - 100pk	D
F1-ADCAP-FCS-XX	FC Mating Sleeve Round Head with Laser Warning Sticker - 100pk	
F1-ADCAP-STS-XX	ST Mating Sleeve Round Head with Laser Warning Sticker - 100pk	E
931-CAP-W	LC Uniboot Dust Cap White - 100pk	F

SPIRAL BOOT

The Spiral Cut Boot is designed for the times when you forget to put the boot on your cable before you terminated a connector. The unique spiral cut allows you to wrap the boot around the cable and then slide it up behind the connector. No need to cut off a good connector because of a forgotten boot. Boot is straight when relaxed.

PART #	DESCRIPTION
SPIRALBOOT25	Spiral Cut 3mm Boot 25-Pack

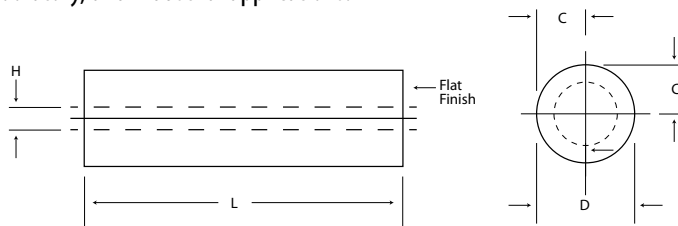


CUSTOM DRILLING SERVICES FROM FIS

High tolerance custom stainless alloy ferrules may be ordered to meet your special requirements.

FIS PREMIUM FERRULES

FIS offers a wide range of high precision stainless alloy ferrules for ST, SC, FC connectors. Our high precision ferrules are used in a wide range of specialized applications, including telecommunication, laser delivery, medical, military, laboratory, and industrial applications.



TYPE	MIN QTY	HOLE TOL "H"	CONCENTRICITY "C"	LENGTH "L"	DIAMETER "D"
Standard	25	-10µm / +50µm	± 50µm	10.5mm 12.7mm	2.5mm
Premium	25	-4µm / +10µm	± 25µm	Variable	Variable

FIS offers a fast turnaround on custom micro drilling services. FIS can accommodate almost any fiber size for special applications. We are capable of drilling FC and SC style stainless alloy connectors that range from 250µm to 1550µm. ST style stainless alloy connectors can be drilled up to 1550µm. However we cannot drill to odd sizes or pure stainless steel ferrules.

For **standard** drilled FIS stainless alloy connectors add \$1.80 to the list price of the connector drilled up to 900µm and \$2.25 to the connector drilled from 900µm or larger.

For **premium** drilled connectors add \$5.00 to the price of the connector.

If a drill bit not listed is required add a \$50 drill charge fee and allow an additional two weeks.

STANDARD / PREMIUM DRILL SIZES

250µm	450µm	650µm	920µm
260µm	460µm	660µm	930µm
270µm	470µm	670µm	970µm
280µm	480µm	680µm	1000µm
300µm	490µm	710µm	1010µm
310µm	500µm	730µm	1040µm
330µm	510µm	750µm	1080µm
340µm	520µm	770µm	1100µm
350µm	530µm	800µm	1200µm
360µm	540µm	810µm	1300µm
380µm	550µm	830µm	1370µm
400µm	570µm	840µm	1500µm
410µm	600µm	860µm	1550µm
420µm	610µm	880µm	Drill Sizes
430µm	630µm	900µm	
440µm	640µm	910µm	

***Note: For Non-Standard Drill Sizes add \$50**

*** 2 week lead time on Non-Standard Ferrules**

FERRULES

FIS offers a variety of 2.5mm Zirconia and Stainless Alloy ferrules for multimode and singlemode applications. Zirconia ferrules have a standard PC radius. Stainless Alloy ferrules are suitable for many laboratory or other specialty applications. Custom lengths and diameters available.

NOT AVAILABLE INDIVIDUALLY

PREMIUM DRILLED FERRULES

PART #	DESCRIPTION	LENGTH
F1-PR240-25	240µm Premium Stainless Alloy Ferrule (25 pk.)	12.7mm
F1-PR250-25	250µm Premium Stainless Alloy Ferrule (25 pk.)	12.7mm
F1-PR140-25	140µm Premium Stainless Alloy Ferrule (25 pk.)	12.7mm

FERRULES

PART #	DESCRIPTION	LENGTH
F1-TSM127-25	127µm Zirconia Ferrule (Multimode) (25 pk.)	10.5mm
F1-SM126-25	126µm Zirconia Ferrule (Singlemode) (25 pk.)	10.5mm
F1-140K-25	140µm Zirconia Ferrule (Multimode) (25 pk.)	10.5mm
F1-0061F-25	127µm Standard Stainless Alloy Ferrule (25 pk.)	12.7mm
F1-0063F-25	140µm Standard Stainless Alloy Ferrule (25 pk.)	12.7mm
F1-0064F-25	230µm Standard Stainless Alloy Ferrule (25 pk.)	12.7mm

ALIGNMENT SPLIT SLEEVES

Split sleeves are designed to align 2.5mm ferrules with precision. The Phosphor Bronze version provides the precision you require on multimode fiber applications. The split sleeves have an outside diameter of 3.2mm and a length of 11.4mm.

NOT AVAILABLE INDIVIDUALLY

PART #	DESCRIPTION
F1-8300SSC-25	Zirconia Split Sleeve (25 pk.)
F1-8300SS-25	Phosphor Bronze Split Sleeve (25 pk.)





RE-SPOOLING SERVICE

We cut and spool fiber or cable to your specified lengths

Fiber Instrument Sales, Inc. (FIS) is able to provide UL approved and RoHS compliant custom manufactured fiber optic cable. These cables are available in a variety of standard configurations and can be custom built to your specifications. Standard fiber optic cable including simplex, duplex and multifiber styles are in-stock for quick delivery. In addition, our extrusion machines are capable of manufacturing fiber optic cable with different jacket colors, coating diameters, fiber counts, tight buffer diameters, jacket materials and more. To request additional information regarding cable, call your FIS sales representative today! Please note: Cable is printed with only core/clad, fiber length and UL markings.

CABLE BUYING GUIDELINES

1. Allowable cable length for shipping and billing is -0/+10%.
2. Cut fees will apply on simplex and duplex cable orders less than 305 meters (1,000 ft.). \$10 each cut/spool.
3. Specialty cut and hand coiled fees will apply on multiple simplex and duplex bulk cable orders, \$5 each.
4. Cut fees will apply on multifiber bulk cable orders less than 100 meters (328 ft.) \$20 each cut/spool.
5. Cut charges do not apply when cable reels that are in stock are offered and accepted.



THREE-PIECE SPOOL

The three-piece spool features plastic flanges bolted to a kraft barrel, creating a durable, dimensionally true and splinter-free reel. Flange diameter is 18" while the barrel diameter 8.25", making it perfect for bulk cable or long assemblies.

PART # DESCRIPTION

F1-12SPOOL	Three Piece Spool - 1.75 Arbor Hole - 12"x 9" x 6"
F1-14SPOOL	Three Piece Spool - 1.75 Arbor Hole - 14"x 9" x 6"
F1-18SPOOL	Three Piece Spool - 1.75 Arbor Hole - 18"x 15.5" x 7.75"



Multimode FIBER TYPE	STANDARD DESIGNATION	JACKET COLOR (typical)	MAXIMUM ATTENUATION (dB/km)			TRANSMISSION DISTANCE FOR (in meters)				MINIMAL MODAL BANDWIDTH (MHz/km)			
			850nm	953nm	1300nm	1 Gb/s	10 Gb/s	40 Gb/s	100 Gb/s	OVERFILLED LAUNCH (OFL) 850nm	OVERFILLED LAUNCH (OFL) 1300nm	OVERFILLED LAUNCH (EMB) 850nm	OVERFILLED LAUNCH (EMB) 953nm
62.5/125	OM1	Orange	2.9	-	0.6	275	33	-	-	200	300	-	-
50/125	OM2	Orange	2.3	-	0.6	550	150	-	-	700	500	950	-
50/125	OM3	Aqua	2.3	-	0.6	550	300	100	70	1500	500	2000	-
50/125	OM4	Aqua	2.3	-	0.6	550	550	150	100	3500	500	4700	-
50/125	OM5 (WB)	Lime Green	2.3	1.7	0.6	550	550	150	100	3500	500	4700	2470

Corning® ClearCurve® optical fiber

ClearCurve® fibers are fully compliant with ITU-T G.652.D and G.657 standards. These fibers are designed to meet a wide array of applications including both inside and outside plant installations. Network designers, operators, and installers choose ClearCurve fibers for their superior bending performance, backward compatibility with the G.652.D standard and their ability to minimize bend-loss throughout any installation. Use the chart, right, to aid in selecting the right ClearCurve fiber for your application.

Corning Product	Application	ITU-T	Radius	Corning Spec
ClearCurve® ZBL optical fiber or ClearCurve® single-mode optical fibers	• Virtually no bend-loss in most indoor applications • Very low in extreme (5mm) bend environments • Enables smaller components and flexible yet reliable networks	Exceeds G.657. A3/B3	5mm 7.5mm	<0.10 dB/turn
SMF-28® Ultra Optical Fiber	• Improved performance vs. standard singlemode fiber • Fully backward compatible with the installed base of legacy single-mode fibers. • Enables a broader range of cable design options and deployment flexibility	Exceeds G.657.A1	10mm	<0.50 dB/turn

9/125µm - OS2 SINGLEMODE Corning® SMF-28® Ultra fiber

SIMPLEX CABLE

PART #	DESCRIPTION	BUFFER SIZE	MFG
3.0mm			
S09-SX01-CZNR	Riser Yellow	900µm	TLC
S09-SX01-CZNPY	Plenum Yellow	900µm	TLC
2.0mm			
S09-SX01-CZNR20	Riser Yellow	900µm	TLC
S09-SX01-CZNPY20	Plenum Yellow	900µm	TLC
1.6mm			
S09-SX01-CZNR16	Riser Yellow	650µm	TLC
S09-SX01-CZNPY16	Plenum Yellow	650µm	TLC

DUPLEX CABLE

PART #	DESCRIPTION	BUFFER SIZE	MFG
3.0mm			
S09-DX02-CZNR	Riser Yellow	900µm	TLC
S09-DX02-CZNPY	Plenum Yellow	900µm	TLC
2.0mm			
S09-DX02-CZNR20	Riser Yellow	900µm	TLC
S09-DX02-CZNPY20	Plenum Yellow	900µm	TLC
1.6mm			
S09-DX02-CZNR16	Riser Yellow	650µm	TLC
S09-DX02-CZNPY16	Plenum Yellow	650µm	TLC

9/125µm - SINGLEMODE ULTRA LOW BEND OPTIMIZED Corning® ClearCurve® ZBL fiber (5mm Radius) G657.B3

SIMPLEX CABLE

PART #	DESCRIPTION	BUFFER SIZE	MFG
3.0mm			
S09-SX01-CCNR	Riser Yellow	900µm	TLC
1.6mm			
S09-SX01-CCNR16	Riser Yellow	650µm	TLC

DUPLEX CABLE

PART #	DESCRIPTION	BUFFER SIZE	MFG
3.0mm			
S09-DX02-CCNR	Riser Yellow	900µm	TLC
1.6mm			
S09-DX02-CCNR16	Riser Yellow	650µm	TLC

62.5/125µm - OM1 MULTIMODE Corning® ClearCurve® OM1 fiber

SIMPLEX CABLE

3.0mm PART #	DESCRIPTION	BUFFER SIZE	MFG
M62-SX01-C3NRO	Riser Orange	900µm	TLC
M62-SX01-C3NPO	Plenum Orange	900µm	TLC
2.0mm			
M62-SX01-C3NRO20	Riser Orange	900µm	TLC
M62-SX01-C3NPO20	Plenum Orange	900µm	TLC
1.6mm			
M62-SX01-C3NRO16	Riser Orange	650µm	TLC
M62-SX01-C3NPO16	Plenum Orange	650µm	TLC

DUPLEX CABLE

3.0mm PART #	DESCRIPTION	BUFFER SIZE	MFG
M62-DX02-C3NRO	Riser Orange	900µm	TLC
M62-DX02-C3NPO	Plenum Orange	900µm	TLC
2.0mm			
M62-DX02-C3NRO20	Riser Orange	900µm	TLC
M62-DX02-C3NPO20	Plenum Orange	900µm	TLC
1.6mm			
M62-DX02-C3NRO16	Riser Orange	650µm	TLC
M62-DX02-C3NPO16	Plenum Orange	650µm	TLC

50/125µm - OM2 MULTIMODE Corning® ClearCurve® OM2 fiber

SIMPLEX CABLE

3.0mm PART #	DESCRIPTION	BUFFER SIZE	MFG
M50-SX01-C2NRO	Riser Orange	900µm	TLC
M50-SX01-C2NPO	Plenum Orange	900µm	TLC
2.0mm			
M50-SX01-C2NRO20	Riser Orange	900µm	TLC
M50-SX01-C2NPO20	Plenum Orange	900µm	TLC
1.6mm			
M50-SX01-C2NRO16	Riser Orange	650µm	TLC
M50-SX01-C2NPO16	Plenum Orange	650µm	TLC

DUPLEX CABLE

3.0mm PART #	DESCRIPTION	BUFFER SIZE	MFG
M50-DX02-C2NRO	Riser Orange	900µm	TLC
M50-DX02-C2NPO	Plenum Orange	900µm	TLC
2.0mm			
M50-DX02-C2NRO20	Riser Orange	900µm	TLC
M50-DX02-C2NPO20	Plenum Orange	900µm	TLC
1.6mm			
M50-DX02-C2NRO16	Riser Orange	650µm	TLC
M50-DX02-C2NPO16	Plenum Orange	650µm	TLC

50/125µm - OM3 MULTIMODE-10 Gig Corning® ClearCurve® OM3 fiber

SIMPLEX CABLE

3.0mm PART #	DESCRIPTION	BUFFER SIZE	MFG
M50-SX01-CGNRA	Riser Aqua	900µm	TLC
M50-SX01-CGNPA	Plenum Aqua	900µm	TLC
2.0mm			
M50-SX01-CGNRA20	Riser Aqua	900µm	TLC
M50-SX01-CGNPA20	Plenum Aqua	900µm	TLC
1.6mm			
M50-SX01-CGNRA16	Riser Aqua	650µm	TLC
M50-SX01-CGNPA16	Plenum Aqua	650µm	TLC

DUPLEX CABLE

3.0mm PART #	DESCRIPTION	BUFFER SIZE	MFG
M50-DX02-CGNRA	Riser Aqua	900µm	TLC
M50-DX02-CGNPA	Plenum Aqua	900µm	TLC
2.0mm			
M50-DX02-CGNRA20	Riser Aqua	900µm	TLC
M50-DX02-CGNPA20	Plenum Aqua	900µm	TLC
1.6mm			
M50-DX02-CGNRA16	Riser Aqua	650µm	TLC
M50-DX02-CGNPA16	Plenum Aqua	650µm	TLC

50/125µm - OM4 MULTIMODE-10 Gig Corning® ClearCurve® OM4 fiber

SIMPLEX CABLE

3.0mm PART #	DESCRIPTION	BUFFER SIZE	MFG
M50-SX01-C4NRA	Riser Aqua	900µm	TLC
M50-SX01-C4NPA	Plenum Aqua	900µm	TLC
M50-SX01-C4NRM	Riser Magenta	900µm	TLC
M50-SX01-C4NPM	Plenum Magenta	900µm	TLC
2.0mm			
M50-SX01-C4NRA20	Riser Aqua	900µm	TLC
M50-SX01-C4NPA20	Plenum Aqua	900µm	TLC
M50-SX01-C4NRM20	Riser Magenta	900µm	TLC
M50-SX01-C4NPM20	Plenum Magenta	900µm	TLC
1.6mm			
M50-SX01-C4NRA16	Riser Aqua	650µm	TLC
M50-SX01-C4NPA16	Plenum Aqua	650µm	TLC
M50-SX01-C4NRM16	Riser Magenta	650µm	TLC
M50-SX01-C4NPM16	Plenum Magenta	650µm	TLC

DUPLEX CABLE

3.0mm PART #	DESCRIPTION	BUFFER SIZE	MFG
M50-DX02-C4NRA	Riser Aqua	900µm	TLC
M50-DX02-C4NPA	Plenum Aqua	900µm	TLC
M50-DX02-C4NRM	Riser Magenta	900µm	TLC
M50-DX02-C4NPM	Plenum Magenta	900µm	TLC
2.0mm			
M50-DX02-C4NRA20	Riser Aqua	900µm	TLC
M50-DX02-C4NPA20	Plenum Aqua	900µm	TLC
M50-DX02-C4NRM20	Riser Magenta	900µm	TLC
M50-DX02-C4NPM20	Plenum Magenta	900µm	TLC
1.6mm			
M50-DX02-C4NRA16	Riser Aqua	650µm	TLC
M50-DX02-C4NPA16	Plenum Aqua	650µm	TLC
M50-DX02-C4NRM16	Riser Magenta	650µm	TLC
M50-DX02-C4NPM16	Plenum Magenta	650µm	TLC

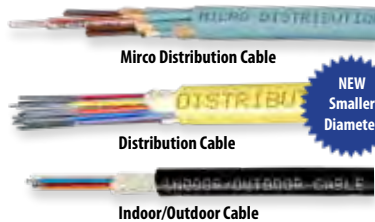
50/125µm - OM5 MULTIMODE-40/100 Gig Corning® ClearCurve® OM5 fiber

SIMPLEX CABLE

2.0mm PART #	DESCRIPTION	BUFFER SIZE	MFG
M50-SX01-C5NRLG20	Riser Lime Green	900µm	TLC
M50-SX01-C5NPLG20	Plenum Lime Green	900µm	TLC
1.6mm			
M50-SX01-C5NRLG16	Riser Lime Green	900µm	TLC
M50-SX01-C5NPLG16	Plenum Lime Green	900µm	TLC

DUPLEX CABLE

2.0mm PART #	DESCRIPTION	BUFFER SIZE	MFG
M50-DX02-C5NRLG20	Riser Lime Green	900µm	TLC
M50-DX02-C5NPLG20	Plenum Lime Green	900µm	TLC
1.6mm			
M50-DX02-C5NRLG16	Riser Lime Green	900µm	TLC
M50-DX02-C5NPLG16	Plenum Lime Green	900µm	TLC

MASTER
DISTRIBUTORNEW
Smaller
Diameter

DISTRIBUTION CABLE

TLC Distribution Cables are designed for general indoor use. Available in all fiber types, a thick durable jacket offers excellent strength and protection during installations and restorations. The 900µm color coded tight buffers allow for easy identification and termination. Cables are available in OFNR and OFNP rated constructions and also a LSZH jacket.

9/125µm - OS2 SINGLEMODE Corning® SMF-28® Ultra fiber

PART #	FIBER COUNT	DESCRIPTION	MFG
S09-DI06-CZNR48	6	Riser Yellow	TLC
S09-DI12-CZNR58	12	Riser Yellow	TLC
S09-DI12-CZNPY58	12	Plenum Yellow	TLC
S09-DI24-CZNR78	24	Riser Yellow	TLC
S09-DI24-CZNPY78	24	Plenum Yellow	TLC
S09-DI48-CZNR-Y	48	Riser Yellow	TLC
S09-DI48-CZNPY-Y	48	Plenum Yellow	TLC
S09-DI72-CZNR-Y	72	Riser Yellow	TLC
S09DI96CZNR-Y NEW	96	Riser Yellow	TLC
S09DI144CZNR-Y NEW	144	Riser Yellow	TLC

62.5/125µm OM1 MULTIMODE InfiniCor® 300 fiber

PART #	FIBER COUNT	DESCRIPTION	MFG
M62-DI04-C3NR044	4	Riser Orange	TLC
M62-DI04-C3NP044	4	Plenum Orange	TLC
M62-DI06-C3NR048	6	Riser Orange	TLC
M62-DI06-C3NP048	6	Plenum Orange	TLC
M62-DI12-C3NR058	12	Riser Orange	TLC
M62-DI12-C3NP058	12	Plenum Orange	TLC
M62-DI24-C3NR078	24	Riser Orange	TLC
M62-DI24-C3NP078	24	Plenum Orange	TLC

50/125µm - OM3 MULTIMODE - 10 Gig Corning® ClearCurve® OM3 fiber

PART #	FIBER COUNT	DESCRIPTION	MFG
M50-DI02-CGNRA44	2	Riser Aqua	TLC
M50-DI02-CGNPA44	2	Plenum Aqua	TLC
M50-DI04-CGNRA44	4	Riser Aqua	TLC
M50-DI04-CGNPA44	4	Plenum Aqua	TLC
M50-DI06-CGNRA48	6	Riser Aqua	TLC
M50-DI06-CGNPA48	6	Plenum Aqua	TLC
M50-DI12-CGNRA58	12	Riser Aqua	TLC
M50-DI12-CGNPA58	12	Plenum Aqua	TLC
M50-DI24-CGNRA78	24	Riser Aqua	TLC
M50-DI24-CGNPA78	24	Plenum Aqua	TLC
M50-DI48-CGNRA-A	48	Riser Aqua	TLC
M50-DI48-CGNPA-A	48	Plenum Aqua	TLC
M50-DI72-CGNRA-A	72	Riser Aqua	TLC
M50-DI72-CGNPA-A	72	Plenum Aqua	TLC
M50-DI96-CGNRA-A NEW	96	Riser Aqua	TLC
M50-DI144-CGNRA-A NEW	144	Riser Aqua	TLC

50/125µm - OM4 MULTIMODE - 10 Gig Corning® ClearCurve® OM4 fiber

PART #	FIBER COUNT	DESCRIPTION	MFG
M50-DI06-C4NRA48	6	Riser Aqua	TLC
M50-DI06-C4NPA48	6	Plenum Aqua	TLC
M50-DI06-C4NRM48	6	Riser Magenta	TLC
M50-DI06-C4NPM48	6	Plenum Magenta	TLC
M50-DI12-C4NRA58	12	Riser Aqua	TLC
M50-DI12-C4NPA58	12	Plenum Aqua	TLC
M50-DI12-C4NRM58	12	Riser Magenta	TLC
M50-DI12-C4NPM58	12	Plenum Magenta	TLC
M50DI48C4NRA-A	48	Riser Aqua	TLC
M50DI48C4NPA-A	48	Plenum Magenta	TLC
M50DI72C4NRA-A	72	Riser Aqua	TLC
M50DI72C4NPA-A	72	Plenum Magenta	TLC

MICRO-DISTRIBUTION INDOOR CABLE

FIS is proud to offer Micro-Distribution Cables for the Data Center market. These cables are offered in Riser, Plenum or LSZH. They are available in OS2 Singlemode, OM1 62.5µm Multimode, OM2 50µm Multimode or OM3 50µm Multimode and OM4 50µm Multimode. Numbered sub units available with either 6 or 12 fibers per tube. Micro Distribution cables with 3mm subunits available.

9/125µm - OS2 SINGLEMODE Corning® SMF-28® Ultra fiber

PART #	FIBER COUNT	DESCRIPTION
S09-MD12-CZNPY20	12	Plenum Yellow
*S09-MD24-CZNPY20-Y	24	Plenum Yellow
*S09-MD48-CZNPY20-Y	48	Plenum Yellow
*S09-MD72-CZNPY20-Y	72	Plenum Yellow
*S09-MD96-CZNPY20-Y	96	Plenum Yellow
*S09-MD144-CZNPY20-Y	144	Plenum Yellow

*Indicates all buffers are colored Yellow

50/125µm - OM3 MULTIMODE Corning® ClearCurve® OM3 fiber

PART #	FIBER COUNT	DESCRIPTION
M50-MD12-CGNPA20	12	Plenum Aqua
*M50-MD24-CGNPA20-A	24	Plenum Aqua
*M50-MD48-CGNPA20-A	48	Plenum Aqua
*M50-MD72-CGNPA20-A	72	Plenum Aqua
*M50-MD96-CGNPA20-A	96	Plenum Aqua
*M50-MD144-CGNPA20-A	144	Plenum Aqua

50/125µm - OM4 MULTIMODE Corning® ClearCurve® OM4 fiber

PART #	FIBER COUNT	DESCRIPTION
M50-MD12-C4NPA20	12	Aqua Plenum
*M50-MD24-C4NPA20-A	24	Aqua Plenum
*M50-MD48-C4NPA20-A	48	Aqua Plenum
*M50-MD72-C4NPA20-A	72	Aqua Plenum
*M50-MD96-C4NPA20-A	96	Aqua Plenum
*M50-MD144-C4NPA20-A	144	Aqua Plenum

*Indicates all buffers are colored Aqua

INDOOR/OUTDOOR CABLE

FIS offers indoor/outdoor cable in a distribution construction in both Riser and Plenum. These cables are flexible, easy to handle and simple to install. Since they do not use gel, the connectors can be terminated directly onto the 900µm fiber without breakout kits. This provides an easy and overall less expensive installation. **Note:** When used in a burial application this cable must be placed in a conduit or innerduct and is not recommended for lashing applications.

PART # FIBER COUNT DESCRIPTION

SINGLEMODE 9/125µm Corning® SMF-28® Ultra fiber

S09-I006-CZNRBL48	6	Riser SM 9/125µm - OS2
S09-I012-CZNRBL58	12	Riser SM 9/125µm - OS2
S09-I024-CZNRBL78	24	Riser SM 9/125µm - OS2
S09-I006-CZNPBL48	6	Plenum SM 9/125µm - OS2
S09-I012-CZNPBL58	12	Plenum SM 9/125µm - OS2

MULTIMODE 50/125µm Corning® ClearCurve® OM3 fiber

M50-I002-CGNRBL44	2	Riser 50/125 10 Gig MM - OM3
M50-I004-CGNRBL44	4	Riser 50/125 10 Gig MM - OM3
M50-I006-CGNRBL48	6	Riser 50/125 10 Gig MM - OM3
M50-I012-CGNRBL58	12	Riser 50/125 10 Gig MM - OM3
M50-I024-CGNRBL78	24	Riser 50/125 10 Gig MM - OM3
M50-I006-CGNPBL48	6	Plenum 50/125 10 Gig MM - OM3
M50-I012-CGNPBL58	12	Plenum 50/125 10 Gig MM - OM3
M50-I024-CGNPBL78	24	Plenum 50/125 10 Gig MM - OM3

MULTIMODE 50/125µm Corning® ClearCurve® OM4 fiber

M50-I006-C4NRBL48	6	Riser 50/125 10 Gig MM - OM4
M50-I006-C4NPBL48	6	Plenum 50/125 10 Gig MM - OM4
M50-I012-C4NRBL58	12	Riser 50/125 10 Gig MM - OM4
M50-I012-C4NPBL58	12	Plenum 50/125 10 Gig MM - OM4
M50-I024-C4NRBL78	24	Riser 50/125 10 Gig MM - OM4
M50-I024-C4NPBL78	24	Plenum 50/125 10 Gig MM - OM4

ALUMINUM INTERLOCKING ARMORED DISTRIBUTION CABLE

Tight Buffered Aluminum Interlocking Armored cable consists of PVC outer jacket, PVC inner jacket with 2 to 48 tight buffered fibers surrounded by yarn acting as a strength member. The core is protected by a spirally wrapped aluminum strip that offers easy installation and high crush resistance. These cables are available in OFCP rated constructions.

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.
S09-DI06-CZNPY48-AIA2	6	SM Plenum 9/125µm - Yellow - OS2	13mm
S09-DI12-CZNPY58-AIA2	12	SM Plenum 9/125µm - Yellow - OS2	14.7mm
S09-DI24-CZNPY78-AIA2	24	SM Plenum 9/125µm - Yellow - OS2	16.2mm
S09-DI48-CZNPY48-AIA	48	SM Plenum 9/125µm - Yellow - OS2	23.50mm
M62-DI06-C3NPO48-AIA2	6	MM Plenum 62.5/125µm - Orange - OM1	13mm
M62-DI12-C3NPO58-AIA2	12	MM Plenum 62.5/125µm - Orange - OM1	14.7mm
M50-DI06-CGNPA48-AIA2	6	MM Plenum 50/125µm Aqua - OM3	13mm
M50-DI12-CGNPA58-AIA2	12	MM Plenum 50/125µm Aqua - OM3	14.7mm
M50-DI24-CGNPA78-AIA2	24	MM Plenum 50/125µm Aqua - OM3	16.2mm
M50-DI06-C4NPA48-AIA2	6	MM Plenum 50/125µm Aqua - OM4	13mm
M50-DI12-C4NPA58-AIA2	12	MM Plenum 50/125µm Aqua - OM4	14.7mm
M50-DI24-C4NPA78-AIA2	24	MM Plenum 50/125µm Aqua - OM4	16.2mm

**Interlocking Armored Distribution Cable****ALUMINUM INTERLOCKING ARMORED INDOOR/OUTDOOR CABLE**

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.
S09-I006-CZNPBL48-AIA2	6	SM Plenum 9/125µm Armored - OS2	13.0mm
S09-I012-CZNPBL58-AIA2	12	SM Plenum 9/125µm Armored - OS2	14.7mm
S09-I012-CZNRBL78-AIA2	12	SM Riser 9/125µm Armored - OS2	14.7mm
M62-I006-C3NPBL48-AIA2	6	MM Plenum 62.5/125µm Armored - OM1	13.0mm
M62-I012-C3NPBL58-AIA2	12	MM Plenum 62.5/125µm Armored - OM1	14.7mm
M50-I006-CGNPBL48-AIA2	6	MM Plenum 50/125µm 10 Gig Armored - OM3	13.0mm
M50-I012-CGNPBL58-AIA2	12	MM Plenum 50/125µm 10 Gig Armored - OM3	14.7mm
M50-I024-CGNPBL78-AIA2	24	MM Plenum 50/125µm 10 Gig Armored - OM3	16.2mm

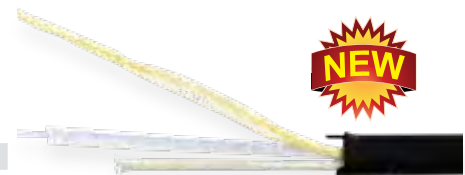
**Interlocking Armored Indoor / Outdoor Cable****ALUMINUM INTERLOCKING ARMORED MICRO DISTRIBUTION CABLE**

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.
S09-MD12-CZNPY- AIA2	12	SM Plenum Yellow Armored - OS2	14.7mm
M50-MD12-CGNPA-AIA2	12	MM Plenum Aqua Armored - OM3	14.7mm
M50-MD24-CGNPAA-AIA2	24	MM Plenum Aqua Armored - OM3	16.2mm
M50-MD48-CGNPA4TA-AIA	48	MM Plenum Aqua Armored - OM3	17.45mm
M50-MD12-C4NPA-AIA2	12	MM Plenum Aqua Armored - OM4	14.7mm
M50-MD24-C4NPA2TA-AIA2	24	MM Plenum Aqua Armored - OM4	16.2mm
M50-MD48-C4NPA4TA-AIA2	48	MM Plenum Aqua Armored - OM4	17.45mm

**Interlocking Armored Micro Distribution****FIS ALL DIELECTRIC FLAT DROP CABLE**

FIS is happy to offer flat drop cable for Fiber to the Premise applications. This durable design incorporates two dielectric rigid rods for optimal tensile strength and crush protection.

PART #	FIBER COUNT	DESCRIPTION
S09FD02CZEBLG	2	SM SMF28 Ultra Gel Flat Drop Cable PE Black
S09FD02CZEBL	2	SM SMF28 Ultra Dry Flat Drop Cable PE Black
S09FD06CZEBL	6	SM SMF28 Ultra Dry Flat Drop Cable PE Black
S09FD12CZEBL	12	SM SMF28 Ultra Dry Flat Drop Cable PE Black

**Flat Drop Cable****GEL FREE INDOOR/OUTDOOR CABLE**

This cable has no gel fill to complicate the connectorization process. Instead, water swellable yarn replaces the gel. Each tube contains colored bare fibers, making your installation simple and fast. Available in 2 to 144 fibers. Fiber counts 2-12 are in one subunit and larger fiber counts are in separate subunits in multiples of 12. Jackets are available in Riser and Plenum. The FIS Fan Out Kits are a perfect match with this cable.

PART #	FIBER COUNT	DESCRIPTION
S09-DL06-CZNRBL25	6	SM 9/125µm Riser PVC Black - OS2
S09-DL12-CZNRBL25	12	SM 9/125µm Riser PVC Black - OS2
S09-DL24-CZNRBL25	24	SM 9/125µm Riser PVC Black - OS2
S09-DL48-CZNRBL25	48	SM 9/125µm Riser PVC Black - OS2
S09-DL72-CZNRBL25	72	SM 9/125µm Riser PVC Black - OS2
M62-DL-06-C3NRBL25	6	MM 62.5µm Riser PVC Black - OM1
M62-DL-12-C3NRBL25	12	MM 62.5µm Riser PVC Black - OM1
M50-DL06-CGNRBL25	6	MM 50/125µm Riser PVC Black - OM3
M50-DL12-CGNRBL25	12	MM 50/125µm Riser PVC Black - OM3
M50-DL12-C4NRBL25	12	MM 50/125µm Riser PVC Black - OM4
M50-DL24-C4NPBL25	24	MM 50/125µm Riser PVC Black - OM4
M50-DL48-C4NPBL25	48	MM 50/125µm Riser PVC Black - OM4

**MASTER DISTRIBUTOR****Indoor / Outdoor Cable**

NEW
96 and 144
Fiber Gel Free
Indoor/Outdoor
Cable



MASTER
DISTRIBUTOR



FEATURES

- Accepts either bare fiber or tight buffer
- Provides durable protection when breaking out cables
- Newly engineered inner tube protects against crushing and kinking
- Designed for all connector types
- 12 standard colors
- Also available with pull string for 2mm and 3mm furcation tubing

APPLICATIONS

- Building up or breaking out of cables for termination
- Protection of bare fiber or tight buffer
- Color coded for easy identification



Spiral Wrap



F1-9795-3

The 2mm, 3mm, 3.8mm, and 4.8mm furcation tubing consists of an inner tube surrounded by aramid yarn and an overall PVC jacket. 12 standard colors are available. Inner tubes are available in specific sizes to accept either bare or buffered fibers. TLC's 900 micron furcation tubing is a single tube designed specifically for the protection and termination of 250µm bare fiber. 12 standard colors in Hytel® as well as clear PVC are available.

900µm FURCATION TUBE

PART #	DESCRIPTION
F00-FR900R-CLEAR	Clear (PVC) (Accepts 250µm Bare Fiber)
F00-FR900-HN	Opaque (Accepts 250µm Bare Fiber)
F00-FR900-HW	White (Accepts 250µm Bare Fiber)
F00-FR900-HY	Yellow (Accepts 250µm Bare Fiber)
F00-FR900-HO	Orange (Accepts 250µm Bare Fiber)
F00-FR900-HA	Aqua (Accepts 250µm Bare Fiber)

2.0mm FURCATION TUBE

Our 2.0mm furcation tubing has an inner tube surrounded by aramid fibers. The inner tube accepts 250µm bare fiber tight buffered and 900µm (1.5mm OD inner tube for 900µm) fiber. Other colors available.

PART #	DESCRIPTION
F00-FR2NUO-900	Orange (Accepts 250µm Bare Fiber)
F00-FR2NUY-900	Yellow (Accepts 250µm Bare Fiber)
F00-FR2NUA-900	Aqua (Accepts 250µm Bare Fiber)
F00-FR2-NUO	Orange (Accepts 900µm Tight Buffer)
F00-FR2-NUY	Yellow (Accepts 900µm Tight Buffer)
F00-FR2-NUR	Red (Accepts 900µm Tight Buffer)
F00-FR2-NUB	Blue (Accepts 900µm Tight Buffer)
F00-FR2-NUG	Green (Accepts 900µm Tight Buffer)
F00-FR2-NUA	Aqua (Accepts 900µm Tight Buffer)

3.0mm FURCATION TUBE

Our 3.0mm furcation tube that accepts 900µm has an inner tube with a Pull String. The 900µm inner hollow tube, the same tube found in FIS Universal Breakout Kits, may now be purchased separately. Includes aramid yarn strength member. Other colors available. (PS) Indicates Pull String.

PART #	DESCRIPTION
F00-FR3NUO-900	Orange (Accepts 250µm Bare Fiber)
F00-FR3NUY-900	Yellow (Accepts 250µm Bare Fiber)
F00-FR3NUA-900	Aqua (Accepts 250µm Bare Fiber)
F00-FR3-NUO (PS)	Orange (Accepts 900µm Tight Buffer)
F00-FR3-NUY (PS)	Yellow (Accepts 900µm Tight Buffer)
F00-FR3-NUR (PS)	Red (Accepts 900µm Tight Buffer)
F00-FR3-NUB (PS)	Blue (Accepts 900µm Tight Buffer)
F00-FR3-NUG (PS)	Green (Accepts 900µm Tight Buffer)
F00-FR3-NUA (PS)	Aqua (Accepts 900µm Tight Buffer)

SPIRAL WRAP

PART #	DESCRIPTION
HT316N	Nylon Spiral Cut Tubing 3/16"

ROSIN BAG

FIS technicians utilize rosin bags to ease the application of furcation tubing and help remove flooding gels while stripping. The rosin bags are used to dry wet surfaces making furcation quicker and easier.

PART #	DESCRIPTION
F1-9795-3	Rosin Bags 3/pack

RIBBON FURCATION TUBE (NOT PICTURED)

FIS offers ribbon furcation tubing for protection of bare ribbon fibers. Standard size fits fiber counts of 4, 6, 8 and 12 fibers. There is no inner tube or strength member.

PART #	DESCRIPTION
F00-FRRB-NRO	Orange
F00-FRRB-NRY	Yellow
F00-FRRB-NRA	Aqua

ISOPROPYL ALCOHOL PRODUCTS

This 99% ACS reagent grade isopropyl is used in cleaning fiber or connector end faces for better transmission performance. Also offered are 4 oz. dispensing bottles in glass or plastic. **Ground shipping only. Hazmat fees may apply.**

PART #	DESCRIPTION
F1-0068	1 Case of 6 (4 oz.) Canned Alcohol
F1-0007SP	4 oz. Alcohol Bottle with Spray Top
F1-0007	1 Case of 6 (4 oz.) Alcohol Squeeze Bottles
F1-000728	Bottled Alcohol (28 oz.)
F1-1007GA	1 Case Alcohol (4 gallons per case)



F1-0068



F1-000728



F1-0007



HAZMAT FEES
MAY APPLY
GALLON ONLY



FIS DISPENSING BOTTLE

PART #	DESCRIPTION
F1-007PL	8 oz. Automatic Alcohol Dispensing Bottle (Plastic)
F1-007P	8 oz. Automatic Alcohol Dispensing Bottle (Amber Glass)



F1-007PL



F1-007P



F1-1007S



CANNED AIR

Before removing a fiber optic connector for inspection or cleaning, make sure the area around the connector is free from dust. The FIS Micro Duster includes an extension nozzle to provide a powerful blast of air to remove particles from areas that are otherwise inaccessible. Competitively priced. **Shipping restrictions and fees may apply.**

PART #	DESCRIPTION
F1-1007S	FIS Canned Air (10oz.)

MATCHING GEL (OPTICAL COUPLANT)

To reduce optical loss within fiber optic mechanical splices and connectors, apply optical couplant at the interface of the two mated fibers. This minimizes loss by reducing the difference in the index of refraction between the mated fibers.

PART #	DESCRIPTION
F1-0001V988	FIS Matching Gel (.4oz)



F1-0001V



F1-8265

PIANO WIRE

A smart way to save a connector when a fiber breaks inside a ferrule during connectorization. Also an excellent tool to remove broken fiber from bare fiber adapters. Sticky colored tabs provided to hold wire.

PART #	DESCRIPTION
F1-8265	FIS Piano Wire (8 wires /10 dots)

FIBER OPTIC DISPOSAL UNIT

A handy and safe solution for disposing of cleaved fiber ends. Perfect for on-site installers. Choose from three sizes to accommodate any tool kit and splice/connector station. The large unit has a snap on hinge cover, while the standard and mini containers have traditional slide tops for easy opening and closing.

PART #	DESCRIPTION
F1-8328C	Large Fiber Optic Disposal Unit with Snap Top (3 1/2"W x 5 1/2"H)
F1-8327	Standard Fiber Optic Disposal Unit with Slide Top (1 7/8"W x 4 3/8"H)
F1-8326	Mini Fiber Optic Disposal Unit with Slide Top (1 5/8"W x 1 1/2"H)



F1-8328C



F1-8326



F1-8327

F1-6706



Air Ship
Available

FIBER OPTIC CLEANING SOLUTION

This fast-acting cleaner can be used with dry fiber wipes or tissues to remove dirt and soils from optical fibers prior to termination and splicing or to clean the end of connector ferrules.

PART #	DESCRIPTION
F1-6706	Fiber Optic Cleaning Solution - Air Ship Available
F1-6706AQ	Water-based Fiber Optic Cleaner Solvent



FIS FIBER OPTIC WIPES

The FIS low lint tissues can be used dry or with cleaning solvents to clean ferrule endfaces or prepare fibers for termination and/or splicing.

PART #	DESCRIPTION
F1-6705	Low Lint Wipes (280 wipes per box)
F1-6705C	Case of (60 Boxes)



F1-6705

FIS FIBER OPTIC 4"x4" NON-WOVEN WIPES

Non-Woven cloth wipes can be used alone or with alcohol or solvents. Provides superior cleaning of fiber optic connector ferrules without risk of scratching or lint residue.

PART #	DESCRIPTION
F1-6702	Non-Woven Dry Wipes, 100 per pack, 4" x 4"
F1-6704	Non-Woven Dry Wipes, 1,200 per pack, 4" x 4"

F1-6702



PRE-MOISTENED ALCOHOL WIPES

Fast evaporating alcohol pre-moistened wipes can be used on optical fiber to remove dirt, dust and oils. Contains: Isopropanol.

PART #	DESCRIPTION
F1-1004	FIS Pre-Moistened Alcohol Wipes (50 pk.)

PRE-MOISTENED DEGREASER WIPES (ICKY-PIC CLEANER)

FIS Icky-Clean wipes can be used with outside plant, optical or copper cables. Utilize to remove Icky-Pic or gels from cables prior to splicing or termination. Great to clean up tools as well.

PART #	DESCRIPTION
F1-1010	FIS Pre-Moistened Degreaser Wipes (12 pk.)
F1-1010-100	FIS Pre-Moistened Degreaser Wipes (100 pk.)



F1-1004

F1-1010



F1-6712

FIS FIBER SWIPE500

This unique handheld connector ferrule end face cleaner removes dust, dirt and contaminants prior to mating a fiber optic connection. The fiber optic cleaner fits well in the technician's hand with a convenient trigger that automatically opens the top cleaning window to expose a single microfiber cleaning slot. Simply swipe the ferrule end-face with light pressure against the microfiber with the directional arrow and then release the trigger.

PART #	DESCRIPTION
F1-6712	FIS Fiber Swipe500
F1-6713	Replacement Reel (20 ft)

F1-7020C



FIS CONNECTOR CLEANER

Choose the FIS Hand Held Connector Cleaner as an alternative to alcohol or solvent and wipes. The cartridge offers lint-free, clean room grade cleaning media which effectively removes dirt, dust, oil, grease and debris from connector endfaces. A new resilient rubber pad beneath the cleaning surface prevents scratching, and a sliding cover protects the cleaning media from contamination when not in use. Reel refills available.

PART #	DESCRIPTION
F1-7020C	FIS Connector Cleaner Universal (400 cleans)
F1-7021C	FIS Cleaning Media Replacement Reel (20 ft.)

F1-7111



FIS CONNECTOR CLEANER WITHOUT RETRACTABLE COVER

PART #	DESCRIPTION
F1-7111	FIS Connector Cleaner Universal (400 cleans)
F1-7112	Replacement Reel for F17111 (10ft.)



F1-0053CKV



F1-0053FSMINI



F1-0053CKM



F1-6714MPO

FIS CLEANING KITS

PART

DESCRIPTION

F1-6714	Fiber Optic Cleaning Station, Standard Kit (Wall Mountable)
F1-6714MPO	Fiber Optic Cleaning Station, Standard Kit with MPO/MTP cleaning tool (Wall Mountable)
F1-0053FSMINI	FIS Mini Fiber Optic Cleaning Kit
F1-0053CKM	Fiber Optic Cleaning Kit with 200X Microscope
F1-0053CKV	Fiber Optic Cleaning Kit in Fabric Carry Case

5G CLEANING KITS - RRH Cables

New applications in the field with the implementation of high density radio heads for 5G deployment will require an increase in the use of hardened fiber optic connectors. Manufacturers of different radio heads have adopted certain hardened connector interfaces between their equipment and outdoor distribution enclosures. Technicians will find themselves confronted with new style connectors that may require deeper cleaning of the housing threads, inner body, O-rings and connector ferrule end face.

The unique 5G Cleaning Kits are targeted to provide a wider selection of popular cleaning tools and solvents to address new crevices in hardened connectors that are soiled from outdoor environments. It is important to clean these connectors prior to mating for maximum performance and minimum attenuation.

KIT CONTENTS & INTENDED USE

- Pressurized Canned Air and Alcohol – Clean and dry to remove any creviced debris or water.
- Connector End face Cleaning solution – Fast evaporating solvent intended for fiber optic end face.
- Connector Endface Cleaner – Auto Advancing 2.5mm and 1.25mm end face connector cleaning.
- Cleaning swabs – (3) different style swabs for cleaning internal body components and threads.
- Dry Wipes- Woven Cleaning wipes that won't tear while using for outer or inner body cleaning.
- Moistened Towelettes- Outer connector body and cable cleaning.
- (Optional) MPO Endface Cleaner – Auto Advancing cleaner for MTP or MPO end face cleaning.

FIS 5G RRH CABLE CLEANING KITS

PART

F15GC	5G Hardened Connector Cleaning Kit (includes Auto Advance Cleaner for SC/LC connectors)
F15GCM	5G Hardened Connector Cleaning Kit w/ MPO Auto Advancing Cleaner




F1-6718

F1-6715

F1-6716

F1-6725

F1-6712S

**MPO CLEANERS
ARE AVAILABLE
CALL YOUR
FIS SALES
REPRESENTATIVE
FOR MORE
INFORMATION**

FIS BULKHEAD FERRULE CLEANER

PART #	DESCRIPTION
F1-6717	Refillable Bulkhead Fiber Optic Cleaner for 2.5mm Ferrules and Alignment Sleeves, SC, ST, FC and E2000, UPC & APC (Not Shown)
F1-6718	Refillable Bulkhead Fiber Optic Cleaner for 1.25mm Ferrules and Alignment Sleeves, LC, and MU, UPC & APC
F1-6717R	Refill for FIS Fiber Optic Cleaner F16717 for SC, ST, FC & E2000
F1-6718R	Refill for FIS Fiber Optic Cleaner F16718 for LC & MU
F1-6715	FIS 2.5mm Bulkhead Ferrule Cleaner (audible "click" with rotating head)
F1-6716	FIS 1.25mm Bulkhead Ferrule Cleaner (audible "click" with rotating head)
F1-6725	Connect-O Clean Ferrule Cleaner for 2.5mm connectors (SC,ST,FC)
F1-6712S	Connect-O Clean Ferrule Cleaner for 1.25mm connectors (LC/MU)


F1-5100S

F1-25184

F1-25123

F1-0005

F1-25LCMTPB

F1-38542F

F1-51125F

F1-0006

FIS ADHESIVE TIP DEBRIS REMOVAL SWAB

This swab has an adhesive tip for gathering fiber shards within work area or cleaver mechanism.

PART #	DESCRIPTION
F1-5100S	Debris Removal Swab - with Adhesive (5 pack)
F1-5100100	Debris Removal Swab - with Adhesive (100 pack)

FIS WRAPPED SWABS - 2.5mm and 1.25mm

INTENDED FOR FERRULE END-FACE OR ALIGNMENT SLEEVE CLEANING

PART #	DESCRIPTION
F1-25184	2.5mm Wrapped Swabs (5pk)
F1-25183	2.5mm Wrapped Swabs (100pk)
F1-25123	1.25mm Wrapped Swabs (5pk)
F1-25123B	1.25mm Wrapped Swabs (100 pk)

FIS MINI-FOAM TIP SWABS - 2.5mm

INTENDED FOR FERRULE END-FACE OR ALIGNMENT SLEEVE CLEANING

PART #	DESCRIPTION
F1-0005	2.5mm Mini Foam Swabs (50 pk)

FIS MTP CONNECTOR END-FACE CLEANING SWAB

INTENDED FOR FERRULE END-FACE OR ALIGNMENT SLEEVE CLEANING

PART #	DESCRIPTION
F1-25LCMTPB	MTP Chamois Swab (25 per tube)

FIS FUSION SPLICER V-GROOVE CLEANING SWAB

PART #	DESCRIPTION
F1-38542F	V-Groove Cleaning Swab (50 per tube)

FIS FUSION SPLICER LENS CLEANING SWAB

PART #	DESCRIPTION
F1-51125F	Fusion Splice Lens Cleaning Swab (15 per tube)

FIS GENERAL PURPOSE COTTON SWABS

PART #	DESCRIPTION
F1-0006	General Purpose Cotton Swabs, 1 Bag (100 pk)



F1-9778

FIS MPO/MTP CURING OVEN

Maximize productivity with the FIS MPO/MTP Cure Oven. Designed to cure up to 24 MPO/MTP ferrules at one time. The MPO/MTP Oven's temperature control is adjustable between 50° and 150°C to work with the cure schedules of all the popular brands of epoxies. The FIS MPO/MTP Cure Oven also features a built in timer for convenience. Like the rest of our family of connector cure ovens, the MPO/MTP Cure Oven is designed to be simple, durable and easy to use.

PART #	DESCRIPTION
F19778	FIS MTP Curing Oven



9092 MTRJ/MTP



9091 MU/LC



9090 Universal

FIS CONNECTOR HEAT OVEN

To prevent epoxy "out gassing" that can cause fiber fractures and other connector problems, it is important that a connector curing oven provide reliable operation. The FIS Connector Oven is preferred by many installers because it is simple, dependable, and easy-to-use.

PART #	DESCRIPTION
F1-9772	24 Port Heat Oven (FC/ST/D4/SMA/SC) 4011-0000 Included
F1-977220	24 Port Heat Oven (220 V) (FC/ST/D4/SMA/SC) 4011-0000 Included
9091	MU/LC Holding Block
9090	Universal Holding Block (side A - ST, FC, SMA, D4, side B - Biconic, SC)
9092	MTRJ/MTP Ferrule Holding Block
4011-0000	24 Port Block (FC,ST,D4,SMA,SC)
F1-OVSTAND	Curing Stand
8032-0000	Thermometer



F1-9772

OPTIONAL CURING STAND SHOWN

Buy FIS in Bulk and Save!!

FIS EPOXY FOR CONNECTORIZATION

Each pre-measured two-part packet contains the proper ratio for connectorization. Every packet includes specific directions for use with fiber optic connectors.

PART #	STYLE	2 GRAM SIZE	4 GRAM SIZE
H05-100-RX	Quick Cure - Single Pack	Air Ship Available	Air Ship Available
T60-065-BX	Blue Dye - Single Pack	Air Ship Available	Air Ship Available
T120-023-CX	Room Cure - Single Pack	Air Ship Available	No Air Ship.
H15-080-RX	Heat Cure - Single Pack	Air Ship Available	Air Ship Available
H05-100-RX-50	Quick Cure - 50 Pack	Air Ship Available	Air Ship Available
T60-065-BX-50	Blue Dye - 50 Pack	Air Ship Available	Air Ship Available
T120-023-CX-50	Room Cure - 50 Pack	Air Ship Available	No Air Ship.
H15-080-RX-50	Heat Cure - 50 Pack	Air Ship Available	Air Ship Available

Replace "X" with "2" for 2 Gram Package or "4" for 4 Gram Package.



F1-4012
1.1mm Needle



Syringe



.9mm Needle

EPOXY APPLICATION SYRINGE

When assembling multiple fiber optic connectors, these Epoxy Syringes enable you to work quickly and efficiently. The included dispensers (needles) enable you to easily inject epoxy into connectors. Economically priced, they can be replaced the moment the epoxy is no longer easily workable. A larger diameter 1.1mm applicator needle is also available, F1-4012, which can be used with the 501473-3IR empty syringe.

PART #	DESCRIPTION
501473-3IRC5	Empty Syringe with .9mm Needle (5 pk.)
501473-3IRC25	Empty Syringe with .9mm Needle (25 pk.)
501473-3IRC100	Empty Syringe with .9mm Needle (100 pk.)
F1-4012	1.1mm Applicator Needle for 3M Connectors (25 pk.)



HAND POLISHING DISCS

The metal fiber optic polishing discs are especially durable and are machined to close tolerances. They are designed to hold your fiber optic endface at exactly the correct angle to the polishing film during the polishing process.

PART #	DESCRIPTION
F1-6925UN	ST/SC/FC Universal 2.5mm Polish Disc (C)
F1-6925ST	ST Polish Disc (D)
F1-6977ST	ST 4 Position Polish Disc (A)
F1-6928SC	SC Polish Disc (E)
F1-6928APC	SC/APC Polish Disc (B)
F1-6925FC	FC/PC Polish Disc
F1-6925FCAPC	FC/APC Polish Disc
F1-6930UN	MU/LC Polish Disc (F)
F1-6900APC	LC/APC Polish Disc
F1-6925SMA	SMA Polish Disc
F1-6926	D4 Polish Disc
F1-6927	Biconic Polish Disc (may not work with all brands)

ULTRA PRECISION POLISHING PADS

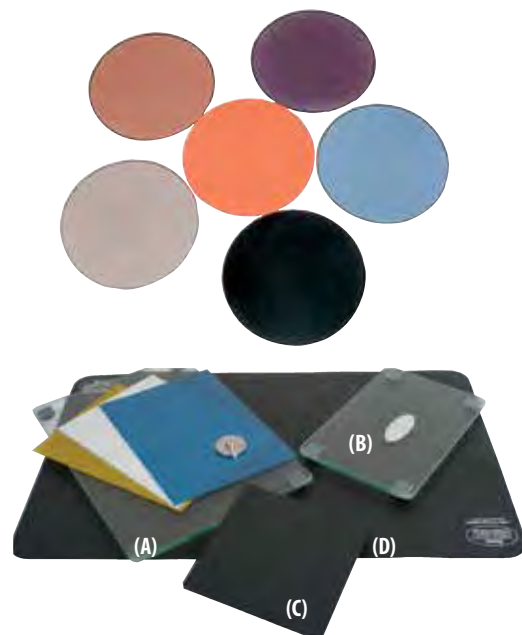
Ultra Pads are color coded for easy recognition by the machine operators. 4" and 5" discs are .079" thick and 6"x 6" squares are 0.250" thick.

PART #	DESCRIPTION
F1-70D4	4" Circular Rubber Pad 70 Durometer (purple)
F1-90D4	4" Circular Rubber Pad 90 Durometer (black)
F1-70D5	5" Circular Rubber Pad 70 Durometer (purple)
F1-90D5	5" Circular Rubber Pad 90 Durometer (black)
F1-70DX6	6" x 6" Square Rubber Pad 70 Durometer (purple)
F1-90DX6	6" x 6" Square Rubber Pad 90 Durometer (black)

POLISH PLATES, PADS AND MATS

The polishing of fiber optic connectors calls for both a hard flat surface and a cushioned pad. The 9" x 13" or 6" x 9" polish plate is available in safety glass and mounted on four rubber feet for support. When polishing PC style pre-radius connectors, use the soft polish pad on the glass plate. Placing the lapping film over the pad assures the removal of epoxy and proper polish of fiber without destroying the pre-radius of the ferrule.

PART #	DESCRIPTION
F1-9111	FIS Polish Glass Plate (9" x 13") (A)
F1-9111A	FIS Polish Glass Plate (6" x 9") (B)
PP-575	5.75" Square Polishing Pad, 1/16" Thick 70 Durometer (C)
F1-0024	Large Black Work Mat (22" x 14") (D)
PPG-575	5.75" Square Polishing Pad with 1/4" Acrylic Plate (not pictured)



FIS POLISH FILM-SOLD IN PACKS OF 25 SHEETS

When choosing polish film, you want to achieve two things; a high-quality end face finish, and maximum value for your money. FIS Polish Films provide both! Carefully graded abrasives are bonded with quality adhesives, enabling you to polish more connectors per sheet.

LARGE SHEETS 9" X 13"

PART #	MATERIAL	GRIT	COLOR
F1-0109-03	Aluminum Oxide	.3µm	White
F1-0109-1	Aluminum Oxide	1µm	Lt. Green
F1-0109-3	Aluminum Oxide	3µm	Pink
F1-0109-5	Silicon Carbide	5µm	Black
F1-0109-9	Aluminum Oxide	9µm	Lt. Blue
F1-0109-12	Aluminum Oxide	12µm	Dark Yellow
F1-0109-15	Silicon Carbide	15µm	Dark Grey
F1-0109-5-1-03	3 in 1 Film	(5, 1, .3µm)	

STANDARD SHEETS 9" X 6.5"

PART #	MATERIAL	GRIT	COLOR
F1-0102-03	Aluminum Oxide	.3µm	White
F1-0102-1	Aluminum Oxide	1µm	Lt. Green
F1-0102-3	Aluminum Oxide	3µm	Pink
F1-0102-5	Silicon Carbide	5µm	Black
F1-0102-9	Aluminum Oxide	9µm	Lt. Blue
F1-0102-12	Aluminum Oxide	12µm	Dark Yellow
F1-0102-15	Silicon Carbide	15µm	Dark Grey



FIS DIAMOND POLISH FILM SHEETS (Sold in packs of 10.)

PART #	DESCRIPTION	GRIT	COLOR	PACK SIZE
F1-01071S-10	3" x 6" Sheet	1µm	Violet	10
F1-01073S-10	3" x 6" Sheet	3µm	Pink	10
F1-010730S-10	3" x 6" Sheet	30µm	Green	10



FIS MACHINE POLISHING DISCS (Sold in packs of 10 and 25 discs.)

PART #	SIZE	TYPE	GRIT	COLOR	PACK SIZE
F1-01070SD-25	4" diameter	Aluminum Oxide	.05µm	Yellow	25
F1-01071DD-10	4" diameter	Diamond	1µm	Violet	10
F1-01073DD-10	4" diameter	Diamond	3µm	Pink	10
F1-01076DD-10	4" diameter	Diamond	6µm	Grey	10
F1-010730DD-10	4" diameter	Diamond	30µm	Green	10
F1-01080SD-25	5" diameter	Aluminum Oxide	.05µm	Yellow	25
F1-01081DD-10	5" diameter	Diamond	1µm	Violet	10
F1-01083DD-10	5" diameter	Diamond	3µm	Pink	10
F1-01086DD-10	5" diameter	Diamond	6µm	Brown	10
F1-010830DD-10	5" diameter	Diamond	30µm	Green	10



FULLY CUSTOMIZABLE FIS TOOL KITS!



FIS is the leader in the fiber optic industry and offers the best value on Tool Kits. Every year FIS expands upon its Tool Kit line and upgrades several tools to show our commitment to providing quality kits. The Universal Connectorization Epoxy Tool Kit provides a technician with materials to prep and connectorize standard fiber optic connectors such as ST, SC, and FC. For technicians searching for the ultimate Tool Kit, review our Universal Multimode Test Set Kit and Fusion Splicing Kits.

CUSTOMIZE ANY TOOL KIT

You have the option to customize any of the FIS Tool Kits. You can add or swap items from the FIS kits. Please contact an FIS Sales Representative for pricing.

TEST EQUIPMENT OPTIONS

FIS Pocket Fault Locator
FIS Power Meters
FIS Light Sources
FIS Talk Sets
FIS Mini-OTDR
FIS Pulse Suppressors and Test Boxes

ATTENUATOR OPTIONS

FIS Male-Female attenuators in 1-20dB for FC, FC/APC, SC, SC/APC, ST, LC, and MU
FIS variable attenuators

KEVLAR CUTTER OPTIONS

F1KS1 - Miller Scissors
F1-00201 - FIS Economy Scissors
F16430 - Clauss Kevlar Cutters
F19809 - Miller Kevlar Cutter

FIBER OPTIC STRIPPER OPTIONS

F1-1301T - FIS Precision Fiber Stripper
W01224 - Miller Stripper
F11171 - Greenlee Fiber Optic Stripper

MICROSCOPE OPTIONS

F1MS200U - FIS 200x Compact Microscope
F1VS400F2.5 - FIS 400x Handheld Microscope
F1VSF25 - FIS 100x Handheld Universal Scope

PATCH CABLE OPTIONS

FIS Singlemode simplex and duplex patch cables
FIS Multimode simplex and duplex patch cables
FIS Specialty patch cables: MTP, MT-RJ, E2000, MU, ESCON, FDDI, Polarization Maintaining, and VF45 (Volition)



Available with Greenlee Tools!

Look For Green Part Numbers

CUSTOM KIT CASE OPTIONS

PART #	DESCRIPTION	DIMENSIONS and WEIGHT
F1-0053HARD	FIS Standard Tool Case, Empty*	20" x 8" x 15", 10 lbs
F1-0053BSC	FIS Mini Soft Case, Empty*	16" x 11" x 5", 4 lbs
F1-1600	FIS Educational Kit Case with foam and pallet, Empty*	21.43" x 16.5" x 17.87", 17.54 lbs
F1-0053SFN	FIS Standard Die Cut Foam Bottom Insert For F1-0053HARD	
F1-0053PPN	FIS Pick N' Pluck Bottom Foam Insert	
F1-0053STPN	FIS Standard Leather Pallet	

* Must order bottom insert and top pallet from choices above.





Basic Fiber Optic Kit
F1-0053

FIS BASIC FIBER OPTIC TOOL KIT

- PVC Electrical Tape (F1-0008)
- 2 oz. Cleaning Solvent (F1-6706)
- Trihole Fiber Stripper (F1-1301T)
- FIS Connector Cleaner (F1-7020C)
- Kevlar Scissors (F1-KS1)
- Jacket Stripper (F1-0016)
- Buffer Tube Stripper (F1-0017)
- Round Cable Slitter (MK02)
- 6" Side Cutting Pliers (200038)
- (50) Foam Swabs (F1-0005)
- Utility Knife (F1-0023BLK)
- Tweezers (F1-0019)
- Needle Nose Pliers (100021)
- Piano Wire (F1-8265K)
- Fiber Optic Wipes (F1-6705)
- 4 Bit Screwdriver (F1-0027)
- Black Marker (F1-9104)
- Safety Glasses (F1-S13390C)
- (5) Degreaser Wipes (F1-1010)
- Black Work Mat (F1-0024)
- Fiber Disposal Unit (F1-18329)
- Ruler (RMC-6)
- Fabric Tape Measure (F1-8273)
- 1/2" Nut Driver (1UG30G)
- Rugged Carry Case (F10053HARD)
- 1Mtr 3mm Furcation (F00FR3NU0)
- 1Mtr 900µm Furcation (F00FR900HW)
- Splice Sleeve and Shrink Tube Kit (P50KIT)
- Duct Tape (7788A202)

Non-
Hazardous
Ships Air!

PART #	DESCRIPTION
F1-0053	Basic Tool Kit (Pictured)
F1-0053C	Replacement Consumables
F1-0053P	Basic Tool Kit with PVFL (F1-9000)
F1-0053SB	Basic Tool Kit with Soft Case
F1-0053-G	Basic Tool Kit with Greenlee Tools (8 Tools on page 65)
F1-0053P-G	Basic Tool Kit with PVFL (F1-9000) and Greenlee Tools (on page 65)

Supplied Greenlee Tools:

- Jacket Stripper 26-16AWG (1917) - Replaces (F1-0016)
- 6" Side Cut Pliers (0251-06M) - Replaces (200038)
- 6" Needle Nose Pliers (0351-06M) - Replaces (100021)
- Utility Knife (0652-11) - Replaces (F1-0023BLK)
- 6 in 1 Screwdriver (0153-42C) - Replaces (F1-0027)
- 24' /7.5 Meter Tape Measure (0155-7MA) - Replaces (F1-8273)
- 1/2" Nut Driver (0253-17C) - Replaces (1UG30G)
- 7/16" Nut Driver (0253-16C) - Addition



FIS Backpack Tool Kit
F1-0053PACK



FIS Universal MM Test Set Tool Kit
F1-0053TS-MME



Hot Melt Tool Kit
F1-0053HM

Now with
E-Series
PM & LS



FIS Mini Cleaning Kit
F1-0053FSMINI



FIS Fiber Optic Cleaning Kit
F1-0053CKM

SHIPPING
RESTRICTIONS
& TACKLING RULES



FIS Data Center Cleaning Kit
F1-6714MPO

FIS BACKPACK TOOL KIT

All the great products you became accustomed to in the FIS Tool Kit now in a smaller, lightweight, and durable backpack. (Special custom kits are available)

PART #	DESCRIPTION
F1-0053PACK	FIS Backpack Basic Fiber Optic Tool Kit
F1-0053PACKFS	FIS Backpack Fusion Splicing Tool Kit
F1-0053PACKFSC	FIS Backpack Splicing Tool Kit with Lynx Precision Cleaver
F1-0053PACKFSCVFL	FIS Backpack Splicing Tool Kit with PFL and Lynx Cleaver
F1-0053PACKFSVFL	FIS Backpack Splicing Tool Kit with Pocket Fault Locator
F1-0053PACKG	FIS Backpack Basic Fiber Optic Tool Kit with Greenlee Tools
F1-0053PACKLM	FIS Backpack Universal 1.25mm Epoxy Tool Kit (LC/MU)
F1-0053PACKU	FIS Backpack Universal SC, FC, ST Epoxy Tool Kit

FIS UNIVERSAL SM TEST SET TOOL KIT

- (5) 5µm Polish Film Sheet (F1-0102-5S)
 - Instructions for FIS Connectors ST, FC and SC (F217)
 - (5) FIS 4gr. Blue Dye Epoxy (T60-06S-B4)
 - FIS Universal Microscope (F1-MS200U)
 - (5) Syringes (5014733IRCS)
 - Universal Polish Puck (F1-6925UN)
 - (5) 0.3µm Polish Film Sheet (F1-0102-03S)
 - (5) 1µm Polish Film Sheet (F1-0102-1S)
 - Carbide Scribe (F1-9773)
 - FIS Universal Crimp Tool (F1-3227)
 - Rubber Polish Pad (PP-575)
 - Glass Polish Plate (F1-9111)
 - FIS E-Series Power Meter with Adapter
 - FIS E-Series SM 1310/1550nm Light Source
- (2) Simplex 3mm SM Ultra SC/UPC-SC/UPC 2 Mtr (S9YUYUS2FISCU)
 - (2) Simplex 3mm SM Ultra ST/UPC-SC/UPC 2 Mtr (S98UYUS2FISCU)
 - (2) Simplex 3mm SM Ultra FC/UPC-SC/UPC 2 Mtr (S97UYUS2FISCU)
 - (2) FIS Simplex 1.6mm SM Ultra LC/UPC-SC/UPC 2 Mtr (Y9LYUS2FISCU)
 - Visual Fault Locator (F1-9000)
 - (1) LC SM Simplex Adapter Blue No Flange (F18005NF)
 - (1) SC SM/MM Adapter Zirconia Sleeve Blue w/ Flange (F13810BC)
 - (1) 3M ST SM Adapter Threaded (8119)
 - (1) Singlemode FC Adapter (F18520)

PART #	DESCRIPTION
F10053TSSME	FIS Universal SM Test Set Tool Kit w/Series E PM & LS

FIS UNIVERSAL MM TEST SET TOOL KIT

- (5) 5µm Polish Film Sheet (F1-0102-5S)
 - Instructions for FIS Connectors ST, FC and SC (F217)
 - (5) FIS 4gr. Blue Dye Epoxy (T60-06S-B4)
 - FIS Universal Microscope (F1-MS200U)
 - (5) Syringes (5014733IRCS)
 - Universal Polish Puck (F1-6925UN)
 - (5) 0.3µm Polish Film Sheet (F1-0102-03S)
 - (5) 1µm Polish Film Sheet (F1-0102-1S)
 - Carbide Scribe (F1-9773)
 - FIS Universal Crimp Tool (F1-3227)
 - Rubber Polish Pad (PP-575)
 - Glass Polish Plate (F1-9111)
 - FIS E-Series Power Meter with Adapter
 - FIS E-Series MM 850/1300nm Light Source
 - (2) FIS Simplex MM 62.5 SC-SC 2 MTr Patchcord (S2YYM2FISC)
 - (2) Simplex MM 62.5um ST/UPC-SC/UPC 2 Mtr Patchcord (S28YM2FISC)
- (2) Simplex MM 62.5 SC-LC 2 Mtr patchcord (Y2YLM2FISC)
 - (2) Simplex SC-ST MM 50um OM3 Aqua 2 Mtr Patchcord(Y8Y8M2FISC)
 - (2) Simplex SC-SC MM 50um OM3 Aqua 2 Mtr Patchcord (Y8YYM2FISC)
 - (2) Simplex LC/PC-SC/PC MM 50um OM3 Aqua 2 Mtr Patchcord (Y8LYM2FISC)
 - (1) SC Simplex MM Adapter PB Zirconia Beige No Flange (F13800CNF)
 - (1) LC MM Simplex Adapter Beige - No Flange (F18000A)
 - (1) ST MM Adapter Bronze Sleeve (F18102SS)
 - (1) 4mm Mandrel for Bend-Insensitive MM Fiber for 1.6/2mm cable (F1CCM04)
 - (1) MM Mandrel Kit (50um and 62.5um) (F1MM6250)
 - (1) Pocket Fault Locator (F1-9000)

PART #	DESCRIPTION
F10053TSMME	FIS Universal MM Test Set Tool Kit w/Series E PM & LS

FIS HOT MELT TOOL KIT

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- FIS 6 Port Hot Melt Oven (F1-9110)
 - (4pk) 3M Universal Holding Clips (6365HH)
 - Universal Polish Disc (F1-6925UN)
 - Carbide Scribe (F1-9773)
 - FIS Universal Microscope (F1-MS200U)
- (2) Soft Polish Pad (F1-90D5)
 - Glass Polish Plate (F1-9111)
 - FIS Universal Crimp Tool (F1-3227)
 - (50pk) 3M 2µm Film (6192A)
 - (5) 3M .05µm SM Polish Disc (6192AA)

PART #	DESCRIPTION
F1-0053HM	Hot Melt Tool Kit (110v Oven)
F1-0033HM	Hot Melt Tool Kit (220v Oven)

FIS ANAEROBIC TOOL KIT (SC and LC) (NOT PICTURED)

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- Anaerobic Adhesive Hardener (680)
 - Anaerobic Primer (7649)
 - (10) Syringe Tips (5014733IRCS)
 - Carbide Scribe (F1-9773)
 - Universal Crimp Tool (F1-3227)
 - LC/MU Crimp Die (F1-8825LM)
 - Rubber Polish Pad (PP-575)
 - (5) 1µm Polish Film Sheet (F1-0102-1S)
 - (5) 5µm Polish Film Sheet (F1-0102-5S)
- (5) 0.3µm Polish Film Sheet (F1-0102-03S)
 - (5) 1.5µm Diamond Film Sheet (DLF6X61.5661X)
 - (5) 0.5µm Diamond Film Sheet (DLF6X6.5661X)
 - Glass Polish Plate (F1-9111)
 - 2.5mm Universal Polish Puck (F1-6925UN)
 - LC Universal Polish Puck (F1-6930UN)
 - FIS Universal Microscope (F1-MS200U)

PART #	DESCRIPTION
F1-0053AH	FIS Anaerobic Tool Kit

FIS FIBRLOK™ SPLICE INSTALLATION KIT (NOT PICTURED)

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- FIS Cleaver (F1-6000)
 - (5) 3M Fibrlok Splices (2529)
- 3M Fibrlok Assembly Tool (2501)
 - FIS Index Matching Gel (F1-0001K)

PART #	DESCRIPTION
F1-0053FI	3M Fibrlok™ Splice Installation Kit
F1-0053FISM	3M Fibrlok™ Kit with Singlemode Cleaver (F1-LYNX)

DATA CENTER CLEANING STATION

The FIS Fiber Optic Cleaning Station is a unique product that provides immediate access to cleaning supplies for technicians. These cleaning kits are wall mountable similar to First Aid kits found throughout many facilities. Open the top cover and find cleaning notes for technicians not familiar with fiber optics. Kits include cleaning instruments for both 2.5mm and 1.25mm ferrules on patch cables and through adapters in the back plane of enclosures. Optional MPO/ MTP cleaning tool can be added to kit as well. Special edition and custom kits are available. Standard kit contents: (100) 4"x4" Clean Dry Wipes, 2 oz. Cleaning Solution, Auto-Advance Connector Cleaner, 2.5mm and 1.25mm back plane ferrule cleaning tools. Optional kits with MPO/MTP cleaning tool or choice of IBC™ Cleaners/AFL One Click Cleaners.

PART #	DESCRIPTION
F1-6714	Fiber Optic Cleaning Station, Standard Kit
F1-6714MPO	Fiber Optic Cleaning Station, Standard Kit with MPO/MTP cleaning tool
F1-6714IBC	Fiber Optic Cleaning Station, Special Edition Kit with IBC™ cleaning tools for 2.5/1.25mm adapters
F1-6714IBCMPO	Fiber Optic Cleaning Station, Special Edition Kit with IBC™ cleaning tools for 2.5/1.25mm adapters and MPO/MTP cleaner
F1-6714AFL	Fiber Optic Cleaning Station, Special Edition Kit with AFL cleaning tools for 2.5/1.25mm adapters
F1-6714AFLMPO	Fiber Optic Cleaning Station, Special Edition Kit with AFL cleaning tools for 2.5/1.25mm adapters and IBC MPO/MTP cleaner

FIS FIBER OPTIC CLEANING KIT

- Canned Air (10oz) (F1-1007S)
 - Fiber Optic Wipes (F1-6702)
 - 2.5mm Foam Swabs (5pk) (F1-25184)
 - 1.25mm Wrapped Swabs (5pk) (F1-25123)
- Alcohol Wipes (50pk) (F1-1004)
 - FIS Connector Cleaner (F1-7020-C)
 - 4 oz. Bottle of Alcohol (F1-0007SP)

PART #	DESCRIPTION
F1-0053CK	Fiber Optic Cleaning Kit
F1-0053CKM	With 200X Microscope
F1-0053CKC	Replacement Consumables

FIS MINI CLEANING KIT

The FIS Mini Cleaning Kit provides all of the essential cleaning supplies needed for fiber splicing. Kit includes: (1) FIS Connector Cleaner,(1 pack of 50) 2.5mm Mini Foam Swabs, Cleaning Pen, (1 pack of 100) 4" x 4" Woven Dry Wipes, (1 pack of 100) 4" x 6" Alcohol Towelettes, (1 pack of 12) FIS Icky Clean, Carry Case

PART #	DESCRIPTION
F1-0053FSMINI	FIS Mini Fiber Optic Cleaning Kit

FIS SCRIBE TOOLS

FIS DELUXE DIAMOND SCRIBE

Housed in a deluxe metal casing. The Deluxe Diamond Scribe offers a retractable 60° cone point.

PART #	DESCRIPTION
WO-1223	FIS Deluxe Diamond Scribe

FIS ECONOMY DIAMOND SCRIBE

This Economy Scribe has a 60° cone point and is housed in a rugged white plastic housing.

PART #	DESCRIPTION
FO-90-C	FIS Economy Diamond Scribe

FIS SAPPHIRE SCRIBE

For a wider cutting surface, this scribe offers a 90° wedge. Housed in a deluxe metal casing.

PART #	DESCRIPTION
FO-90-S	FIS Sapphire Scribe

FIS 90° WEDGE DIAMOND SCRIBE

Provides for a wider cutting surface. The 90° Wedge Diamond Scribe is packaged in a rugged blue plastic housing.

PART #	DESCRIPTION
FO-90-W	FIS 90° Wedge Diamond Scribe

FIS CARBIDE SCRIBE

This Carbide Scribe offers a wide cutting surface in a plastic pen-like housing.

PART #	DESCRIPTION
F1-9773	FIS Carbide Scribe

FIS LASER SAFETY GLASSES

These high quality safety glasses employ superior laser safety lens technology. Laser protective dyes are molded into the plastic and will not scratch off, photobleach or degrade over time. The lenses protect from light wavelengths in the range of 800-1790nm. Glasses come with a protective carry case, lanyard and cleaning cloth. There are 2 styles to choose from: standard wrap-around and over-the-glasses. These are proudly made in the USA.

PART #	DESCRIPTION
F1-IRD5-35	FIS Laser Safety Glasses, Wrap Around Style, Adjustable Frames
F1-IRD5-36	FIS Laser Safety Glasses, Medium Style, Adjustable Frames



F1-IRD5-35



F1-IRD5-36

FIS PRECISION FIBER STRIPPERS

Choose from strippers that remove the 3mm jacket, 900µm and 250µm buffer coating. Precision blades produce consistent clean strips. Tool length: 6.25".

PART #	DESCRIPTION
F1-1301T	250µm, 900µm and 3mm Fiber Optic Stripper, Three Hole
F1-1520	250µm, 900µm Outside Plant Buffer Stripper
F1-1500	Duplex Zipcord 900µm and 250µm Buffer Coating Stripper
F1-1212	Ribbon Stripper (outside jacket) (not pictured)



F1-1301T



F1-0016

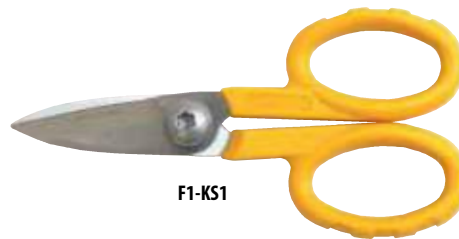
T-STYLE JACKET STRIPPER

The dual "V" notch blade allows the quick removal of outer jacket. Plier nose, along with cushion grips and spring release are additional features making this stripper comparable to the Ideal T-Type® Stripper.

PART #	DESCRIPTION
F1-0016	T-Style Stripper, 16-20 AWG



F1-0020



F1-KS1



925CS

KEVLAR® CUTTERS

When cutting Kevlar®, you need a cutting tool with very durable blades. You also want the tool to cut cleanly, and to fit comfortably in your hand. FIS offers cutters that fit the bill.

PART #	DESCRIPTION
F1-0020	Economy Kevlar® Cutter (Metal Blade)
F1-KS1	Kevlar® Scissor (Carbon Molybdenum and Vanadium Steel Blade)
925CS	Traditional Serrated Scissor


F1-3227

F1-8825LM

F1-3227M

FIS FIBER OPTIC CRIMP TOOLS

Fiber optic connectors call for precision crimping which must meet non-optical disconnect requirements and increased pull strength demands. The FIS Crimp Tool is designed to successfully assemble a variety of connector styles for maximum optical performance and mechanical strength. The FIS Crimp Tool, part number F1-3227, contains 4 crimp sizes; .128, .137, .151 and .190 inches.

PART #	DESCRIPTION
F1-3227	FIS Crimp Tool (Die and Handle) ST/FC/SC
F1-8888	FIS MT-RJ Crimp Tool (.151 round, .190 round)
F1-8825	FIS MU/LC Crimp Tool and Die (.120 round, .128 round)
F1-1302	FIS Crimp Tool Handle
927-1180	FIS SMA Crimp Tool 5 Cavity (.105 hex, .137 hex, .157 hex, .178 hex, and .255 hex)
PA-1331	Triple Round Tool and Die (.133, .160, .195)

FIS CRIMP TOOL DIES

PART #	DESCRIPTION
F1-8825LM	FIS MU/LC Crimp Die (.120 Round, .128 Hex)
F1-3227M	FIS Crimp Tool Die (.128, .137, .151, .190)
PA-2051	Triple Hex Die (.068, .128, .178)

FIS Complex Cable Assemblies Made Better In The USA!

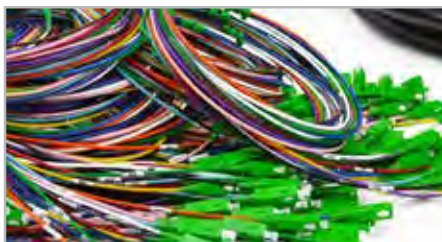
**FTTx Drop Cables • MPO Various Configurations • Tactical Mil Spec
Ribbon Fan-Out • Node Cables • Furcated 288+ Count**

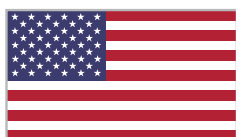
Quick Turnaround

Online Configurator

**Technical Drawings
Supplied FREE**

**Small or Large
Quantities**


MPO Connectors

288+ Counts

Hardened Cable Assemblies


Made In The USA

Fiber Instrument Sales sells more companies more cable assemblies, than anybody in the USA. We do this by simply earning their business!



Fiber Instrument Sales MPO Test System

Don't Be the One to Put Your Network to Chance

Test and measure your network more cost effectively, faster, and accurately than ever before.

FEATURES

- Singlemode or Multimode Kits
- 12 Position Light Source and Power Meter
- Pass/Fail Reporting
- dBm/dB check criteria
- Select A, B or C Polarity
- USB Data Transfer

Kit Includes:
1- 12 Position Power Meter
1- 12 Position Light Source
2- MPO Reference Cables (Polarity A)
2- MPO Mating Sleeves
2- AC Power Adapters

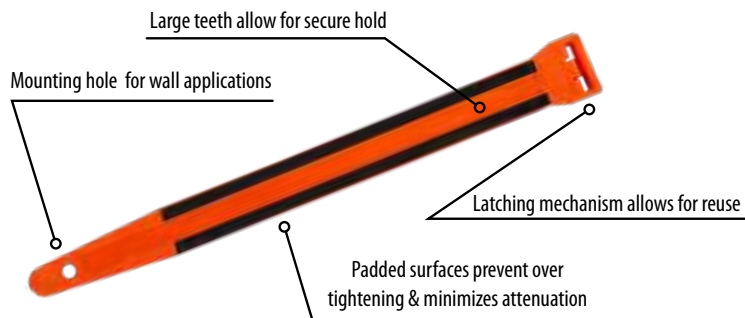


For more information
visit us on the web or call us
TODAY!



**BEST
VALUE
PRICING**

**Ordering
Information
on pg 35**



Keep racks neat and clean



**Can mount to wall
for easy placement**

It's easy for installers to over-cinch thin zip ties, resulting in macrobends that attenuate fiber optic cables. With copper cables, the weight of cables pressing against thin ties can damage or deform them enough to create crosstalk issues. To solve these problems, FIS has created the "Universal Cable Strap," the widest cable tie designed for communications cable. A padded version is available for fiber optic cable.

FIS Tie Wraps are 1" wide and 12" long and are available with or without protective foam padding. Sold in convenient packs of 6, 50, 100 pieces. Replace "X" with color of your choice: AQ=Aqua, BK=Black, BL=Blue, GR=Green, OR=Orange, YE=Yellow

FIS FIBER OPTIC TIE WRAPS

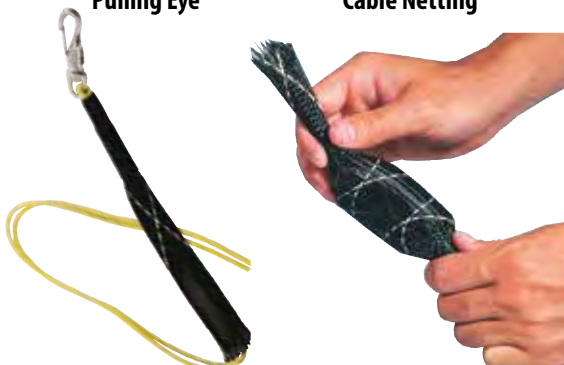
PART #	DESCRIPTION
FOTW-X-6	Tie Wrap with Foam (Pack of 6)
FOTW-X-50	Tie Wrap with Foam (Pack of 50)
FOTW-X-100	Tie Wrap with Foam (Pack of 100)

FIS BASIC TIE WRAPS

PART #	DESCRIPTION
BTW-X-6	Basic Tie Wrap (Pack of 6)
BTW-X-50	Basic Tie Wrap (Pack of 50)
BTW-X-100	Basic Tie Wrap (Pack of 100)

Pulling Eye

Cable Netting



FIS FIBER OPTIC PULLING EYE & CABLE NETTING

The FIS pulling eye will protect connectors while providing a pulling point with properly distributed tensions on cable assemblies. Available as a stand-alone component or installed by FIS on your custom cable assembly. The pulling eye has a rotating end clip to minimize cable twisting and the connectors are protected with cable netting.

PART #	DESCRIPTION
F1-1001	FIS Pulling Eye Kit for Multifibers
F1-1001BR	FIS Pulling Eye Kit for Simplex and Duplex
F1-5700	Cable Netting (Expands up to 2", pulls down to 1/2"), sold per foot

Long distance security, made simple.



FIBER FENCE Security System

The FIS FIBER FENCE Security System is designed to detect intrusions over long distances using fiber optic cable. It's simple to install, and with built-in automatic calibration, no adjustment is required.

The system consists of the FIBER FENCE Zone Control Unit, sensing fiber, Mouse Trips and Proximity Sensors. Sensors are passive which allows the unit to be used in a wide range of environments including no-spark zones.

You can protect 10 acres for less than \$1,000, and a square mile for less than \$1,500.

FREE information & instructional material upon request!

FIBER FENCE
SECURITY SYSTEM™

Phone: 800-500-0347 ext 2151 « Email: fiberfence@fiberinstrumentsales.com « www.fiber-fence.com

APPLICATIONS



AGRICULTURE



MANHOLE
COVERS



MINING
OPERATIONS



NO SPARK
ENVIRONMENTS



PIPELINES, RAILS,
BRIDGES



CHEMICAL
PLANTS

FIBER FENCE SECURITY SYSTEM™

FIBER FENCE Security System

The FIBER FENCE Security System operates on the principle of light attenuation. This system will detect perimeter or contained area intrusion, manhole, gate and valve positions and many industrial, facility and utility based applications – particularly in no-spark environments.

**Call 800-500-0347 ext 2151
to talk to the Fiber Fence
Product Line Manager.**

ZONE CONTROL UNIT

The heart of the FIBER FENCE Security System is the Zone Control Unit. The Control Unit sends light to one or more FIBER FENCE Mouse Trip or Opti-Mag sensors. The Zone Control Unit utilizes 9v DC power and may be rack mounted in a remote location. The Zone Control Unit is available in the 23dB range 1310nm single mode fiber coupled laser version. The power supply is included with each unit when purchased.

PART #	DESCRIPTION
OMS-CML	Zone Control Unit L (10 mile range)
OMS-PWRS	Zone Control Unit 9V Power Supply (2A - will support up to 4 units plus)
OMS-RMS	Zone Control Unit Rack Mount System (4 Module Rack)
OMS-SPK	FIBER FENCE Splice Kit

OPTI-MAG SENSOR - THE "COVER COP"

FIBER FENCE Opti-Mag Sensors are sealed and contain a powerful internal magnet and spring mechanism that allow light transmission through the fiber only when it is positioned in the specified proximity to the selected target (i.e. door, manhole cover) or the optional sensing plate. When the target is moved away from the sensor, attenuation is created thus triggering the Zone Control Unit. When the target is returned to its position, light transmission is restored. Each Opti-Mag Proximity Sensor is rated for approximately 10,000 cycles.

PART #	DESCRIPTION
OMS-PRX	FIBER FENCE Opti-Mag Proximity Sensor

FIBER FENCE MINI MOUSE TRIP SENSOR

The FIBER FENCE Mini Mouse Trip is a passive sensor designed to be mounted to the fence. When mounted every 50 feet, it secures the fiber to the fence and will create attenuation triggering an alarm when the fiber or fence is disturbed. Once the fiber or fence is restored, the sensor does not require a manual reset and can continue to provide protection.

PART #	DESCRIPTION
OMS-MMT	FIBER FENCE Mini Mouse Trip Sensor

FIBER FENCE MOUSE TRIP™ SENSOR

The FIBER FENCE Mouse Trip sensors are designed to be mounted to the fence line perimeter and are tripped when the fence is disturbed. Mouse Trip Sensors do not require splicing. Triggered sensors must be reset at tripped location. Applications include perimeter fencing and area containment.

PART #	DESCRIPTION
OMS-MT	FIBER FENCE Mouse Trip Sensor

ZONE MAPPING SOFTWARE

The Zone Mapping Software allows the user to input a map and identify the perimeter with multiple zones. Each zone is protected by a Zone Control Unit. In addition to the features built into the Control Unit the signal can be monitored by the Mapping Software to identify an alarm and pinpoint the zone on the map. The software can also send text or email messages for alarms and resets if the computer has internet access.

PART #	DESCRIPTION
OMS-ZMAP	Zone Mapping Software

FIBER CABLE

The 900µm specially jacketed fiber is required for the Mouse Trip sensor and for Opti-Mag sensors. Cables can be customized to include connectors, Loop-Back modules to return to the Control Unit, and cut to length upon request. A separate quote will be provided.

PART #	DESCRIPTION
OMS-SMPX	Simplex Bend Sensitive FIBER FENCE Singlemode Fiber
OMS-DPX	Duplex Bend Sensitive FIBER FENCE Singlemode Fiber
OMS-CNG	Corner Guard



OMS-CML



OMS-PRX



OMS-MMT



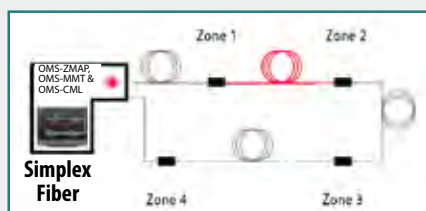
OMS-MT



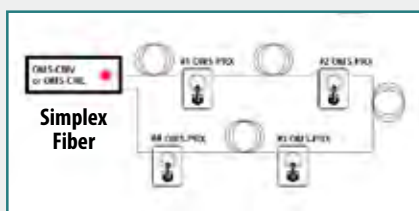
OMS-ZMAP

Note: When possible, additional technical assistance for your specific application may be available. Installers are solely responsible for the actual installation of the system.

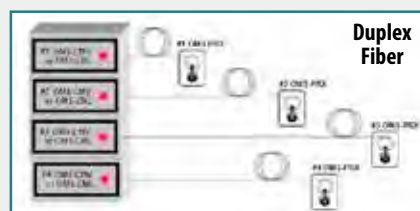
TYPICAL OPTI-MAG NETWORK CONFIGURATIONS



Zone Mapping
(zone location identified)



Multiple Opti-Mag Sensors in Series
(trip location not identified)



Shows four "Home Run" Alarm Modules
(Racked using OMS-RMS)

QSFP+ AOC (ACTIVE OPTICAL CABLE) 40 GIG

PART #	DESCRIPTION
F4M-AOC-QSFPP-F-1-1	High Speed (40 Gig) Quad SFP+ (QSFP+) Fiber Optic Assembly 1 meter, MM, OM3

QSFP+ COPPER CABLE 40 GIG

PART #	DESCRIPTION
F4M-QSFPP-C-.5-30-1	High Speed (40 Gig) Quad SFP+(QSFP+) Copper Cable 30AWG PVC Jacket, half meter
F4M-QSFPP-C-3.5-24-1	High Speed (40 Gig) Quad SFP+(QSFP+) Copper Cable 24AWG PVC Jacket, 3.5 meters

SFP+ COPPER/COPPER ACTIVE CABLE 10 GIG

PART #	DESCRIPTION
F4M-SFPP-C-.5-30-1	10 Gig SFP+ Copper Cable 30AWG PVC Jacket, half meter

QSFP+ TO 4X SFP+ BREAKOUT CABLE ASSEMBLIES 40 GIG - 10GIG

PART #	DESCRIPTION
F4M-QSSFPP-C-1-30-1	QSFP+ to 4x SFP+ Breakout cable assemblies 30AWG, 1 meter, 40 Gig - 10Gig
F4M-QSSFPP-C-4-24-1	QSFP+ to 4x SFP+ Breakout cable assemblies 24AWG, 4 meters, 40 Gig - 10Gig



FIS SFP MODULES FORMATTED FOR MSA COMPATIBILITY

The FIS SFP modules for MSA compatible network equipment come in many variations. Call your FIS sales representative for ordering information.

PART #	DESCRIPTION
F1SFP132KFEMS	SFP 100MB Fast Ethernet 1310nm Multimode, 2 km range, MSA Standard Compatible
F1SFP132K1GMS	SFP 1 Gigabit Ethernet 850nm Multimode, 550 m range, MSA Standard Compatible
F1SFP132K1GMS	SFP 1 Gigabit Ethernet 1310nm Multimode, 2 km range, MSA Standard Compatible
F1SFP1310K1GMS	SFP 1 Gigabit Ethernet 1310nm Singlemode, 10 km range, MSA Standard Compatible
F1SFP1320K1GMS	SFP 1 Gigabit Ethernet 1310nm Singlemode, 20 km range, MSA Standard Compatible
F1SFP1540K1GMS	SFP 1 Gigabit Ethernet 1550nm Singlemode, 40 km range, MSA Standard Compatible
F1SFP1580K1GMS	SFP 1 Gigabit Ethernet 1550nm Singlemode, 80 km range, MSA Standard Compatible
F1SFP185300M10GMS	SFP 10 Gigabit Ethernet 850nm Multimode, 300 m range, MSA Standard Compatible
F1SFP1310K10GMS	SFP 10 Gigabit Ethernet 1310nm Singlemode, 10 km range, MSA Standard Compatible
F1SFP1320K10GMS	SFP 10 Gigabit Ethernet 1310nm Singlemode, 20 km range, MSA Standard Compatible

BUILD YOUR OWN CUSTOM SFP

FIBER INSTRUMENT SALES SFP MODULES DESIGNED SPECIFICALLY FOR YOUR NETWORK

The FIS SFP fiber modules are custom built to order, to fit your network's specifications. Use the chart below to create your custom part number. When ready contact a FIS sales representative for ordering information.

ITEM NUMBER INITIALIZER	WAVELENGTH	RANGE	ETHERNET BIT RATE	COMPATIBILITY
F1-SFP	M85	550	1G	MS
	M85 = Multimode 850 M13 = Multimode 1300 S13 = Singlemode 1310 S15 = Singlemode 1550 B135 = Single Fiber 1310/1550 TX/RX B153 = Single Fiber 1550/1310 TX/RX Note: Contact your FIS Sales Representative for information on CWDM and DWDM SFPs	300m = 300m (SX) 550m = 550m (SX) 2k = 2km (SX) 10k = 10km (LX) 40k = 40km (EX) 80k = 80km (ZX) 120k = 120km (EZ)	FE = 100 MBit (Fast Ethernet) 1G = 1 Gigabit 10G = 10 Gigabit 40G = 40 Gigabit	MS = MSA CP = OEM Compatible Note: FIS SFPs can be programmed for compatibility with OEM equipment offered by manufacturers including: Alcatel-Lucent, Allied Telesis, Arris, Avaya, Cisco, Dell, Enterasys, Extreme, HP, Hirschmann, Huawei, IBM, Intel, Juniper, Moxa, Netgear, Nokia Siemens, Nortel, AND many more. Contact your FIS Representative with the manufacturer's SFP model number to cross reference.

EXAMPLE : F1-SFP-M85-550-1G-MS
FIS LIST PRICE: \$60.00

FIS MEDIA CONVERTERS AND SWITCHES

FIS offers a full line of quality Ethernet network active equipment, including fixed and SFP port multiport media converters and switch gear, as well as a comprehensive line of SFPs to match your specific network requirements.

FIS MEDIA CONVERTERS 10/100 BASE

These Ethernet Media Converters meet IEEE Standards and are 10/100Base-TX and 100Base-FX with MDI/MDI-X auto negotiation. Full set of LED Indicators and 10/100Mbps and full/half duplex automatically configured in twisted pair port. The Multimode converters have a range of 2km and the Singlemode converters have a range of 20km.

PART #	DESCRIPTION
F1-OEC32S1-202	10/100 Base-T/TX to 100 Base-FX Media Converter, MM/FC 2km
F1-DU-100-13-20-ST	10/100 Base-T/TX to 100 Base-FX Media Converter, SM/SC 20km
F1-DU-100-13-20-FC	10/100 Base-T/TX to 100 Base-FX Media Converter, SM/ST 20km
F1-DU-100-13-2-FC	10/100 Base-T/TX to 100 Base-FX Media Converter, SM/FC 20km



F1-SFP0101G

FIS MEDIA CONVERTERS 10/100/1000 BASE

The FIS 10/100/1000 Base media converters are designed to convert 1000BASE-SX fiber to 1000Base-T copper media or vice versa. These Ethernet Media Converters meet IEEE Standards and have MDI/MDI-X auto negotiation.

PART #	DESCRIPTION
F1-DU-1000-13-2-ST	10/100/1000 Base-T/TX to 1000 Base-FX Media Converter, MM/ST 220m (62.5) / 550m (50)
F1-DU-1000-13-2-SC	10/100/1000 Base-T/TX to 1000 Base-FX Media Converter, MM/SC 220m (62.5) / 550m (50)
F1-DU-1000-13-20-ST	10/100/1000 Base-T/TX to 1000 Base-FX Media Converter, SM/ST 20km
F1-DU-1000-13-20-SC	10/100/1000 Base-T/TX to 1000 Base-FX Media Converter, SM/SC 20km
F1-SFP0101G	10/100/1000 Base-T/TX to 1000 Base-FX Media Converter, SFP Port
F1-SFP01P02	Media Converter (2) x 1.25 Gigabit SFP to (1) 2.5 Gigabit SFP



F1-DU10001320SC

FIS SWITCHES 10/100 BASE

These FIS Switches are an inexpensive way to connect remote LAN devices using an existing fiber backbone. FIS has multiple options available for both Multimode and Singlemode.

PART #	DESCRIPTION
F1-DU4001320	10/100 Switch, Multimode, SC, 4UTP
F1-SFP0107F	10/100M Switch, SFP Slot, 7UTP
F1-SFP0116F	10/100M Switch, SFP Slot, 16UTP



F1-DU4001320

FIS SWITCHES 10/100/1000 BASE

These FIS 10/100/1000 base switches are built with multiple SFP ports to support a wide range of network requirements. This powerful feature enables the switch to be extremely versatile at a low cost to the installer.

PART #	DESCRIPTION
F1-SFP0202G	10/100/1000 Media Converter, 2 SFP Slots, 2UTP
F1-SFP0204G	10/100/1000 Media Converter, 2 SFP Slots, 4UTP
F1-SFP0801G	10/100/1000 Media Converter, 8 SFP Slots, 1UTP



F1-SFP0801G

FIS PoE SWITCHES

The FIS PoE Switch provides power and data from a single point, using power over Ethernet over a single CAT5e cable. The eight RJ45 network ports plus one fiber port can be used for any 10/100 Mbps link and four of these ports can supply industry-standard IEEE 802.3af power.

PART #	DESCRIPTION
F1-PSE1009F	8 Port 10/100Mbps 802.3af PoE + 1-Port Fiber 10/100Mbps Desktop Switch
F1-PSE1009F-35-20	8 Port 10/100Mbps 802.3af PoE + 1-Port Fiber 10/100Mbps, Fiber is 1310nmT/1550nmR, 20Km

FIS THREE-PORT MINI SWITCHES

FIS mini-switches provide a simple and inexpensive way to add additional computers to a network. The 3-Port Mini Switch has (2) 100Mbps fiber ports and (1) 10/100Mbps twisted pair copper port.

PART #	DESCRIPTION
F1-SWMM1	3-Port Mini Switch with (2) 100Base-FX MM/SC and One 10/100Base-T/TX Port
F1-SWSM1	3-Port Mini Switch with (2) 100Base-FX SM/SC and One 10/100Base-T/TX Port



F1-SWMM1

FIS EIGHT-PORT DESKTOP SWITCHES

This 8-Port Switch is an inexpensive way to connect remote LAN devices using existing fiber backbone. FIS has 8-Port Desktop Switches with one fiber port in each. The 8-port switch has (1) 100 Base-FX and (7) 10/100 Base-T/TX ports. Multimode units support up to 2km and Singlemode up to 20km. External power supply included.

PART #	DESCRIPTION
F1-JC08A-MS	8-Port Switch with 1 MM/SC Fiber Port and (7) 10/100 Twisted Pair Ports
F1-JC08A-MT	8-Port Switch with 1 MM/ST Fiber Port and (7) 10/100 Twisted Pair Ports
F1-JC08A-S2	8-Port Switch with 1 SM/SC Fiber Port and (7) 10/100 Twisted Pair Ports



FIS 8-Port Mini Switches

FIS FIBER OPTIC VIDEO TRANSMITTERS AND RECEIVERS

- Electronic-to-photonic signal conversion
- NTSC/PAL signal
- Low-profile stand-alone devices
- No field adjustments required
- Transparent to cameras and monitoring equipment



Fiber optic video transmitters and receivers include the ability to convert video signals from coaxial cameras so that they can be transmitted over fiber optic cable. These low-profile stand-a-lone devices can be placed anywhere needed. They require no field adjustments during installation or additional maintenance thereafter. These devices are designed to be transparent to cameras and monitoring equipment regardless of the manufacturer. The receiver includes an indicator light that provides quick verification of system status.



FIS FIBER OPTIC VIDEO TRANSMITTERS

PART #	DESCRIPTION	FIBER MODE	MAX. DISTANCE
S-850TX	Standalone Fiber Optic Video Transmitter	MM 850nm	4 Km
S-1300TX	Standalone Fiber Optic Video Transmitter	MM 1300nm	8 Km
S-1310TX	Standalone Fiber Optic Video Transmitter	SM 1310nm	20 Km

FIS FIBER OPTIC VIDEO RECEIVERS

PART #	DESCRIPTION	FIBER MODE
S-850RX	Standalone Fiber Optic Video Receiver	MM 850nm
S-1300RX	Standalone Fiber Optic Video Receiver	SM/MM 1300nm

All include power supply

SILENT ALARM TRANSMITTERS AND RECEIVERS

Our single channel 850nm converter is designed to provide a high performance, low cost solution for the transmission of Normally Open/Normally Closed contacts (NO/NC) over a single MM fiber. Alarm installers can now take a dry contact closure and wire it to our Fiber Optic transmitter and when the contact alarms it will convert that signal to light and send it to a receiver. This system allows for longer runs using pure light which can't be defeated by jumping.

PART #	DESCRIPTION
S-850SATX	Silent Alarm TX with power supply
S-850SARX	Silent Alarm RX with power supply

FIS INSTRUCTIONAL VIDEOS



Our library of instructional videos is always growing! Check back often to see what's new!



Access FIS instructional videos at www.fiberinstrumentsales.com

FIS SATISFACTION GUARANTEED POLICY

If you are not 100% satisfied with your order, call toll-free to arrange for an exchange or return of goods. Any stock items contained in this catalog may be returned upon your prompt inspection of received goods.

Any discrepancies with an order must be reported to FIS within 24 hours of receipt. Returned Merchandise Authorization (RMA) numbers must be requested within 3 days of receipt of your product and returned to FIS head office within 7 days from receipt of goods. All product returned must be marked with an FIS RMA number and be new and in unopened, full shipping unit quantities. Credit cannot be issued without an FIS authorized RMA. Custom made and uncataloged items will not be accepted for return. FIS reserves the right to charge a re-stocking fee.

Order Information: Minimum Order: \$50.00. Terms: 30 days net. FOB: Oriskany, New York. Amex, Discover, Mastercard and Visa accepted. In all cases freight will be charged for all product shipped. Overdue accounts are subject to a 2% monthly finance charge. In case of price deviations, notification will be made prior to processing of your order. Photographs may not accurately portray present product. Specification sheets available on most catalog items. Quantity discounts available on all items upon request. First time orders for new accounts cannot be processed unless accompanied by a completed credit application. Please allow 3 working days for your application to be processed. TERMS: Net 30 days from date of invoice unless otherwise stated.

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TERMS AND CONDITIONS

Warranty Overview

Fiber Instrument Sales Inc, hereafter referred to as FIS, warrants that a product will be free from defects in materials and workmanship and conforms to FIS Specifications. The warranty period for a product is a specified, fixed period commencing on the customer's date of purchase. A valid proof of purchase may be required. If the customer does not have a valid proof of purchase, the warranty period will be measured from the date of sale indicated within FIS records. If, during the warranty period, the product is not in good working order, FIS may, at its option, repair or replace it at no additional charge, except as is set forth below.

The warranty period for products sold and manufactured by FIS is as follows:

- All products, excluding test and fiber splicing equipment: 30 Days
- FIS manufactured test and fiber splicing equipment: 1 year
- Distributed test and fiber splicing equipment: Original manufacturer's warranty applies

Items Not Covered by Warranty

FIS does not warrant uninterrupted or error-free operation of product or equipment. Unless specified otherwise, FIS references the original equipment manufacturer's warranty and its subsequent requirements on non-Fiber Instrument Sales Inc. products. Any technical or other support provided for a product under warranty, such as assistance via telephone with "how-to" questions and those regarding use, setup and installation, will be provided WITHOUT WARRANTIES OF ANY KIND.

Extent of Warranty

The warranty does not cover the repair or exchange of a product resulting from misuse, accident, modification, unsuitable physical or operating environment, improper maintenance by the customer, or failure caused by a product for which FIS is not responsible. The warranty may be voided by removal or alteration of product, parts, security or identification labels.

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Warranty Service

Warranty service may be obtained from FIS by returning a Return Material Authorization Form (RMA), during the warranty period for the FIS-manufactured product, to FIS's Quality Assurance Manager. The customer may be required to present proof of purchase or other similar proof of warranty entitlement. The customer may be responsible for any associated transportation charges, duties and insurance. The product, once arriving at FIS, will be evaluated to determine cause of failure, with warranty action determined from evaluation.



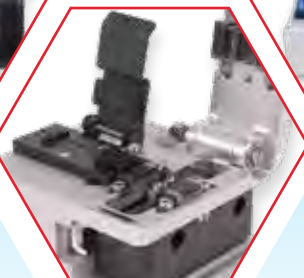
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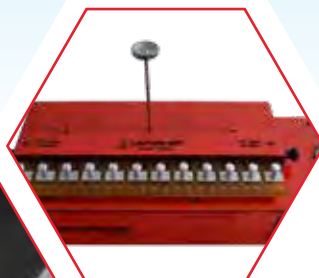
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