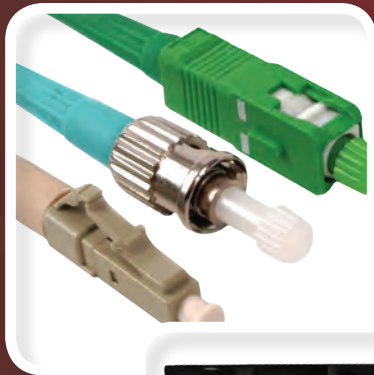




Fiber Instrument Sales, Inc.

Fiber Optic Product Solutions Catalog



CABLING

CONNECTORS

TEST EQUIPMENT

INTERCONNECT BOXES

TOOL KITS

Passive Network

=

Cabling

+

Connectors

+

Interconnect Boxes

800-5000-FIS (347)

www.fiberinstrumentsales.com



"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 9001-2008 Certified
- Products Made in USA
- Over 50,000 sq ft production space
- Custom Manufacturing Capabilities



THE FIS SUCCESS TEAM



Frank Giotto
President/CEO
fgiotto@fissales.com



Kirk Donley
Sr. Vice President
of Sales
Ext. 2104
kdonley@fissales.com



Cindy Marino
Vice President of
Government Sales
Ext. 2140
cmarino@fissales.com



John Bruno
Vice President of
Technical Services
Ext. 2157
jbruno@fissales.com



Patrick Noonan
Director of Sales
Ext. 2139
pnoonan@fissales.com



Steve Casaletta
Territory
Sales Manager
Ext. 2166
scasalletta@fissales.com



Michael Hovey
International
Sales Manager
Ext. 2164
mhovey@fissales.com



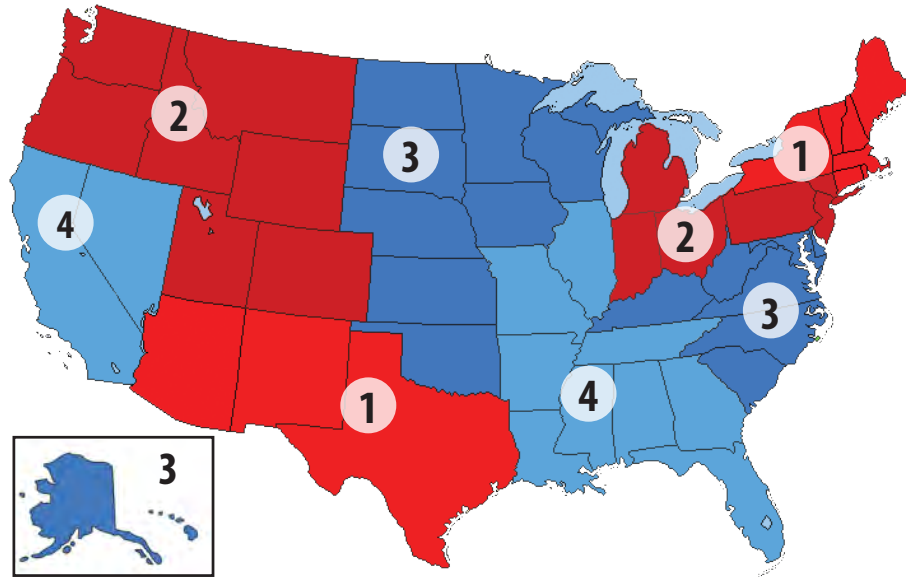
Jim Fasano
Director of
Strategic Accounts
Ext. 2143
jfasano@fissales.com



Greg Bowie
Strategic Accounts
gbowie@fissales.com



Anthony Russo
Outside Sales
Ext. 2173
arusso@fissales.com



● Region 1 ● Region 2 ● Region 3 ● Region 4

REGION 1



Sue Muraca
Account Executive
Ext. 2160
smuraca@fissales.com



Kathleen O'Meara
Sr. Sales Associate
Ext. 2126
komeara@fissales.com



Sally Fenton
Sales Associate
Ext. 2181
sfenton@fissales.com



Phil Kamp
Sales Associate
Ext. 2154
pkamp@fissales.com

REGION 2



Brooke Furner
Sales Associate
Ext. 2156
bfurner@fissales.com



Braidy Husted
Sales Associate
Ext. 2187
bhusted@fissales.com



Samantha King
Sales Associate
Ext. 4124
sking@fissales.com



Brandon Schmidt
Sales Associate
Ext. 4133
bschmidt@fissales.com

REGION 3



Ruth Sokolowski
Account Executive
Ext. 2128
rsokolowski@fissales.com



Jeff Phillips
Sales Associate
Ext. 2113
jphillips@fissales.com



Alicia Aldi
Sales Associate
Ext. 2149
aaldidi@fissales.com



Dave Abel
Sales Associate
Ext. 2103
dabel@fissales.com

REGION 4



Shaun Murray
Account Executive
Ext. 2186
smurray@fissales.com



John DeMetro
Sr. Sales Associate
Ext. 2131
jdemetro@fissales.com



Trista Commisso
Sales Associate
Ext. 2189
tcommisso@fissales.com



Trevor Francis
Sales Associate
Ext. 4125
tfrancis@fissales.com

INTERNATIONAL



Kim Inman
Int'l Sales Supervisor
Ext. 2141
kinman@fissales.com



Michael Noonan
Int'l Sales Associate
Ext. 2119
mnoonan@fissales.com



MaryJo Marino
Int'l Sales Associate
Ext. 2175
mmarino@fissales.com



Sonia Eysaman
Int'l Sales Associate
Ext. 2158
seysaman@fissales.com

RENTALS



Ric Lamb
Rentals/Calibration
Manager
Ext. 2151
rlamb@fissales.com



Jesse Simonds
Rentals/Calibration
Ext. 2114
jsimonds@fissales.com



John Russo
Internet Sales
Ext. 4166
jrusso@fissales.com

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Live Tech Help

Our tech support engineers and technicians 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 and via WaveLengths Online Magazine. Clear and concise, FIS tutorial videos are the next best thing to receiving classroom training.



NFOC-NETS Conference

www.nfoc-nets.com

The NFOC-NETS Communications Conference provides telecom and datacom professionals with the opportunity to attend educational sessions presented by industry experts. These sessions address new fiber optic technologies and applications as well as the business opportunities they present. Dozens of the world's top companies exhibit their products at the NFOC each year.



WaveLengths Magazine

www.wavelengthsmagazine.com

Upbeat and informative, WaveLengths Magazine provides you with a broad understanding of topics relating to the Telecom and Datacom industries. Coverage includes new technology, industry trends, network installation, testing and more. If you work with fiber optics, copper or wireless technologies, Wavelengths is the magazine for you. Our full-color Print Edition is approximately 40 pages in length. Our Online Edition has additional content including audio, video, and interactive features (wavelengthsmagazine.com). Both editions are available FREE to FIS customers!



Communicator Newsletter

This eight-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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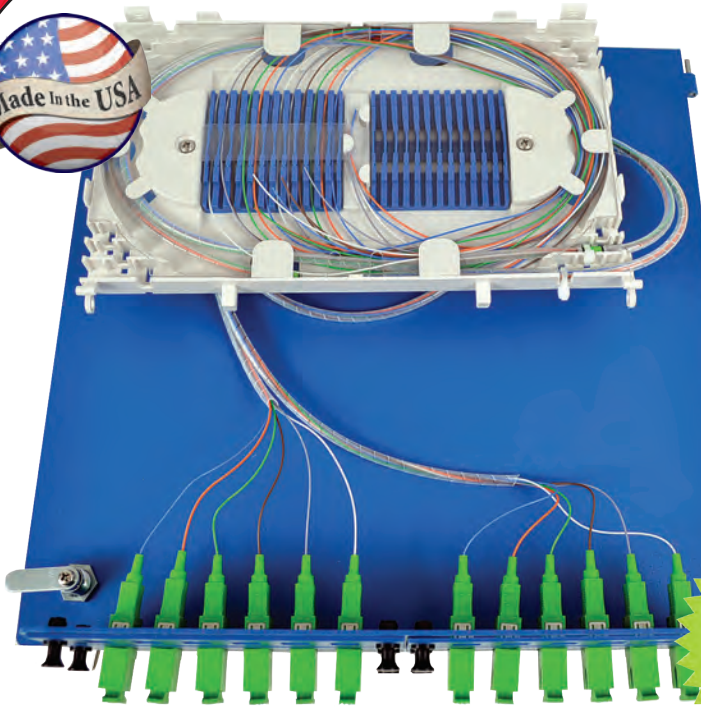
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CUSTOM FIBER OPTIC ENCLOSURES



Key Features

- Rack Mount Modifications Available
- Development - Concept to Product Production
- Custom Colors Available
- Aluminum or Steel Enclosures
- Made in the USA

Data Center
White Rack
Mounts
Available

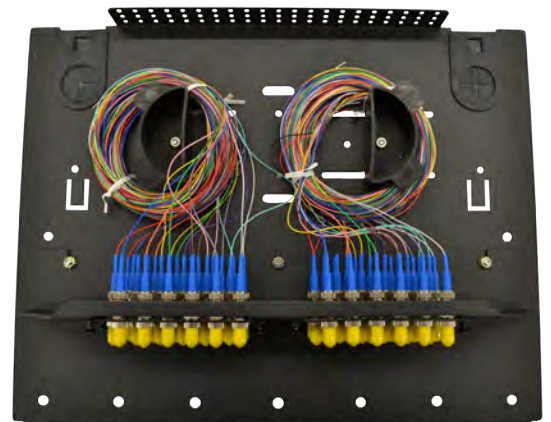
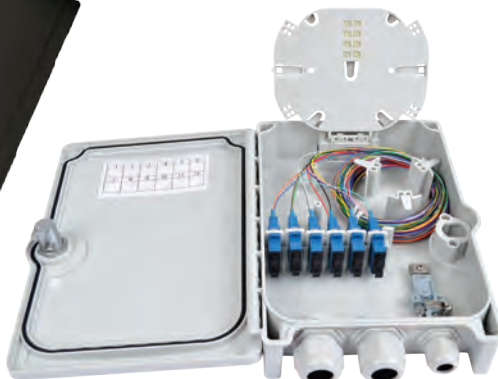


PRETERMINATED FIBER SOLUTIONS



Key Features

- Custom Length Multi-Fiber Terminated Cables
- Installed Pulling Eye for Installation
- High Density MTP/MPO Cassettes
- Singlemode and Multimode Fiber Types
- Singlemode Bend-Insensitive Fibers Available



Pre-Loaded Distribution Interconnects

BUILD YOUR CUSTOM PRE-LOADED RACK MOUNT PART NUMBER

FIS' expert manufacturing teams can load any rack mount box to your specifications for easy onsite installation. Just unpack, load in the rack, and splice, saving time loading boxes at the jobsite and making installations easy and efficient. Contact your FIS sales representative for pricing and other configurations.

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 CW=Corning Wall Mount CR=Corning Rack Mount LW=Leviton Wall Mount LR=Leviton Rack Mount AR=AFL Rackmount AW=AFL Wallmount	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 MP=Multi-Fiber pigtail		12=12 Fiber Position 24=24 Fiber Position	F=Single Fusion M=Mech. Splice R=Ribbon Fusion

Part # Example:

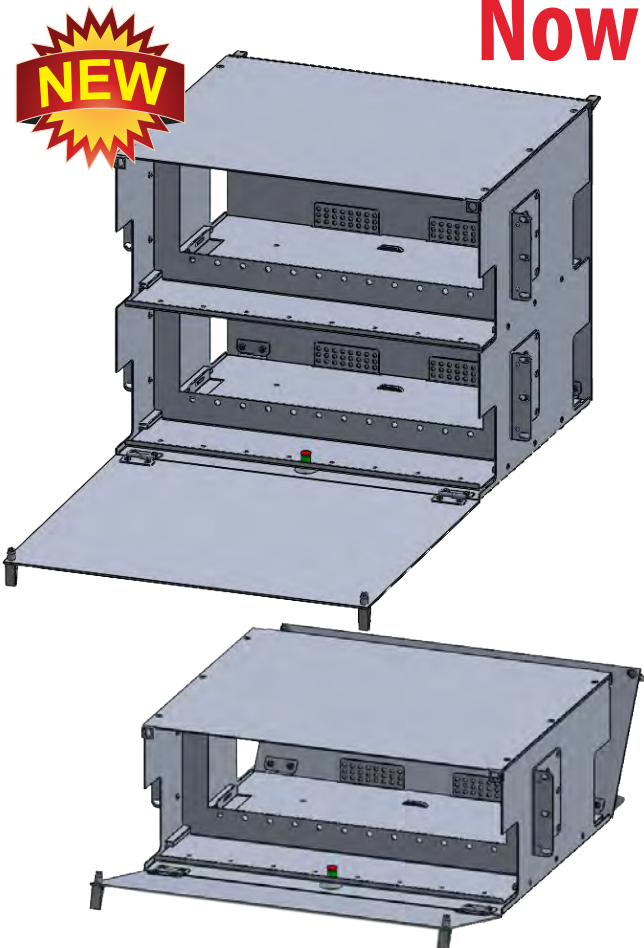
F1-WM-036-X-LU-T9-02-12-F

Translates to:

Wall Mount, 36 Ports, Beige, LC Singlemode, 900µm Pigtail, 2 Meters, 12 Fiber Splice Tray, Single Fusion

Building Information Modeling (BIM)

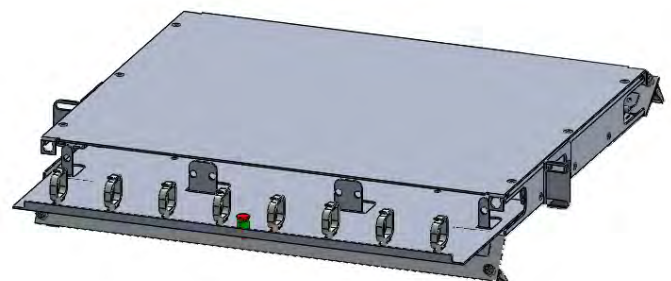
Now Available



Downloadable at
www.fisfiber.com

Key Features

- Provided Free to Architects, Designers and Contractors
- Quick "Snapping Together" of parts in Revit Environment
- Actual 3D Geometry
- Relevant Metadata Embedded into each BIM Model
- BICSI Compliant
- High Resolution Revit Model Rendering



The FIS Rack Mount Enclosures are designed for low or high density patching applications. This sturdy 14 gauge rack enclosure is available in 2, 3, 4, and 9RU 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.

FIS Rack Mount Fiber Optic Swing-Out Patch Panels

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

PART #	DESCRIPTION
F1RMS01RU2X	Color Black
F1RMS01RU2X-BW	Color Off White

- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 2 LGX style adapter plates, modules or cassettes
- Cable entries and exits on the front and rear of enclosure

- Hinged front and rear removable doors
- Dimensions: 17"W x 13"D x 1.75" H
- Powder coated 0.60" Aluminum



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

PART #	DESCRIPTION
F1RMS02RU4X	Color Black
F1RMS02RU4X-BW	Color Off White

- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 4 LGX style adapter plates, modules or cassettes
- Front cable retaining rings included for patch cable management

- Hinged front and rear removable doors
- Dimensions: 17"W x 13"D x 3.5" H
- Powder coated 0.60" Aluminum



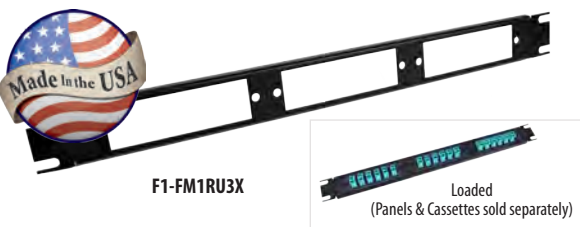
FIS Rack Mount Fiber Optic Flush Mount Patch Panel Frame

1RU FLUSH MOUNT PATCH PANEL FRAME – ACCOMMODATES (3) ADAPTER PANELS

PART #	DESCRIPTION
F1FM1RU3X	Color Black

- 19" rack mountable
- Accepts 3 LGX style adapter plates, modules or cassettes
- Flush Mount

- Dimensions: 19"W x 1.75" H
- Powder coated 0.60" Aluminum



4RU FLUSH MOUNT PATCH PANEL FRAME – ACCOMMODATES (12) ADAPTER PANELS

PART #	DESCRIPTION
F1FM4RU12X	Color Black

- 19" rack mountable
- Accepts 12 LGX style adapter plates, modules or cassettes

- Flush Mount
- Dimensions: 19"W x 7" H
- Powder coated 0.60" Aluminum



FIS Rack Mount Fiber Optic Patch and Splice Panel Frame

4RU FIBER OPTIC PATCH & SPLICE PANEL INTERCONNECT – ACCOMMODATES (4) ADAPTER PANELS

PART #	DESCRIPTION
F1RMSP4RU4X	Color Black

- 19" rack mountable
- Accepts 4 LGX style adapter plates, modules or cassettes
- (2) Sliding trays to access fiber optic patch cables or fusion splice trays

- Dimensions: 17"W x 7" H x 14"D
- Powder coated 0.60" Aluminum



9RU FLUSH MOUNT PATCH PANEL FRAME – ACCOMMODATES (12) ADAPTER PANELS

PART #	DESCRIPTION
F1RS72HBLK	Color Black

- 19" rack mountable
- Accepts 12 LGX style adapter plates, modules or cassettes

- Recommended Splice Tray (PN 4048-SSTP)
- Dimensions: 17"W x 15" H x 14"D
- Powder coated 0.60" Aluminum



FIS Rack Mount Fiber Optic Distribution Interconnects

1RU RACK MOUNT – ACCOMMODATES (3) ADAPTER PANELS (UP TO 96 FIBERS)

PART #	DESCRIPTION
F1RM1RU3X	Color Black

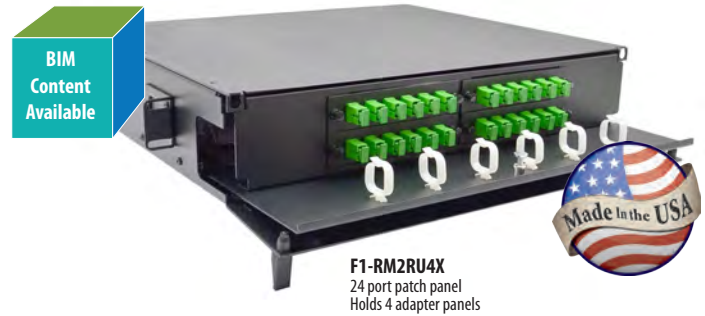
- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 3 LGX style adapter plates, modules or cassettes
- Cable entries and exits on the front and rear of enclosure
- Hinged front and rear removable doors
- Dimensions: 17"W x 13"D x 1.75"H
- Powder coated 0.60" Aluminum



2RU RACK MOUNT – ACCOMMODATES (4) ADAPTER PANELS

PART #	DESCRIPTION
F1RM2RU4X	2RU Enclosure with Solid Front and Rear doors, Color Black
F1RM2RU4XL	2RU Enclosure with Smoked Lexan Front and Solid Rear door, Color Black
F1RM2RU4X-BW	2RU Enclosure with Solid Front and Rear doors, Color Off White
F1RM2RU4XL-BW	2RU Enclosure with Smoked Lexan Front and Solid Rear door, Color Off White

- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 4 LGX style adapter plates, modules or cassettes
- Front cable retaining rings included for patch cable management
- Hinged front and rear removable doors
- Dimensions: 17"W x 13"D x 3.5"H
- Powder coated 0.60" Aluminum



2RU RACK MOUNT – ACCOMMODATES (6) ADAPTER PANELS

PART #	DESCRIPTION
F1RM2RU6X	2RU Enclosure with Solid Front and Rear doors
F1RM2RU6XL	2RU Enclosure with Smoked Lexan Front and Solid Rear door
F1RM2RU6X-BW	2RU Enclosure with Solid Front and Rear doors, Color Off White
F1RM2RU6XL-BW	2RU Enclosure with Smoked Lexan Front and Solid Rear door, Color Off White

- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 6 LGX style adapter plates, modules or cassettes
- Available in color Black(BLK) or Off-White (BW)
- Hinged front and rear removable doors
- Dimensions: 17"W x 13"D x 3.5"H
- Powder coated 0.60" Aluminum



4RU RACK MOUNT – ACCOMMODATES (12) ADAPTER PANELS

PART #	DESCRIPTION
F1RM4RU12X	4RU Enclosure with Solid Front and Rear doors
F1RM4RU12XL	4RU Enclosure with Smoked Lexan Front and Solid Rear door
F1RM4RU12X-BW	4RU Enclosure with Solid Front and Rear doors, Color Off White
F1RM4RU12XL-BW	4RU Enclosure with Smoked Lexan Front and Solid Rear door, Color Off White

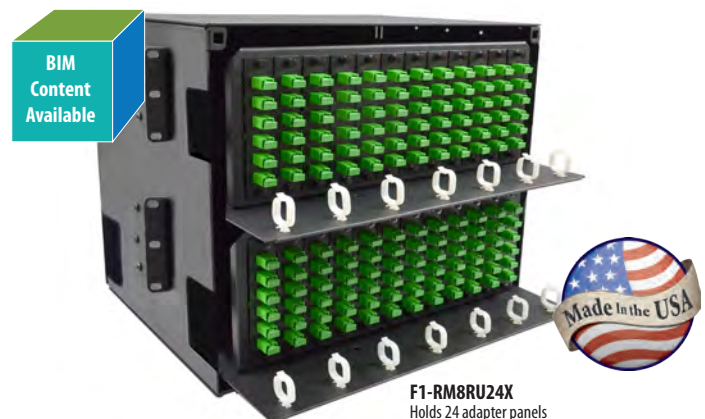
- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 12 LGX style adapter plates, modules or cassettes
- Vertically mounted panels with cable retaining rings on the front entry
- Hinged front and rear removable doors
- Dimensions: 17"W x 13"D x 7.125"H
- Powder coated 0.60" Aluminum

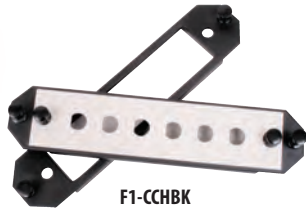


8RU RACK MOUNT – ACCOMMODATES (24) ADAPTER PANELS

PART #	DESCRIPTION
F1RM8RU24X	8RU Enclosure with Solid Front and Rear doors
F1RM8RU24XL	8RU Enclosure with Smoked Lexan Front and Solid Rear door
F1RM8RU24X-BW	8RU Enclosure with Solid Front and Rear doors, Color Off White
F1RM8RU24XL-BW	8RU Enclosure with Smoked Lexan Front and Solid Rear door, Color Off White

- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 24 LGX style adapter plates, modules or cassettes
- Splice trays available for installing behind patch panel frame
- Available solid or clear Lexan front door
- Dimensions: 17"W x 13"D x 15"H
- Powder coated 0.60" Aluminum





F1-CCHBK

UNIVERSAL MOUNTING BRACKET FOR CORNING WCH & CCH BOXES

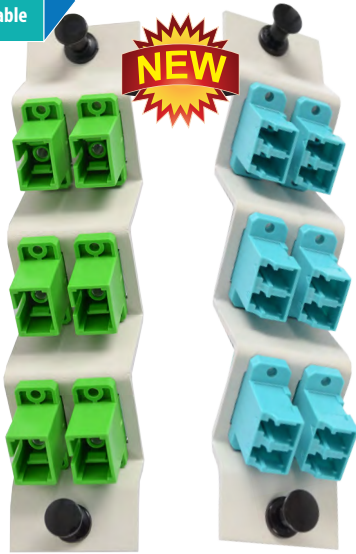
Now available from FIS is a Universal Mounting Bracket that allows installers to use LGX style (dimensions 1 1/4" x 5 1/8") adapter plates from other manufacturers in Corning WCH & CCH series boxes. For use when original manufacturers' plates are not available to complete adds and changes. These mounting plates accept and work well with all adapter plates on this page or with Snap Packs™.

PART #	DESCRIPTION
F1-CCHBK	Universal Mounting Bracket for Corning WCH & CCH Boxes (adapter plate not included)



LGX PLATES FOR FIS WALL & RACK MOUNT ENCLOSURES

*All FIS Adapter Plates are LGX compatible. Each panel is 5.1" (130mm) long by 1.13" (28.7mm) wide, with a on center post width of 4.64 (118mm)



F1-SC6APCUL45

F1-LC6DAQUL45



F1-SC8BKSUL



F1-SC6DBKAPCUL



F1-LC6DBKMUL



F1-SC8BKAPCUL



F1-ST8BKSUL

BEIGE PART #	BLACK PART #	DESCRIPTION
F1SC6APCUL45 NEW	F1SC6APCBKUL45	SC 6 Pack (APC Singlemode – Loaded) Green Adapters
F1LC6DAQUL45 NEW	F1LC6DAQBKUL45	LC Duplex 6 Pack (10 Gig) 12 Fibers Aqua Adapters
F1-BLANKU	F1-BLANKUBK	Blank Plate with No Holes (Unloaded)
F1-ST6U	F1-ST6UBK	ST 6 Pack (Unloaded)
F1-ST6LMUL	F1-ST6BKMUL	ST 6 Pack (Multimode - Loaded)
F1-ST6LSUL	F1-ST6BKSUL	ST 6 Pack (Singlemode - Loaded)
F1-ST8U	F1-ST8UBK	ST 8 Pack (Unloaded)
F1-ST8LMUL	F1-ST8BKMUL	ST 8 Pack (Multimode - Loaded)
F1-ST8LSUL	F1-ST8BKSUL	ST 8 Pack (Singlemode - Loaded)
F1-FC6U	F1-FC6UBK	FC 6 Pack (Unloaded)
F1-FC6MUL	F1-FC6BKMUL	FC 6 Pack (Multimode/Singlemode - Loaded)
F1-FC6SUL	F1-FC6BKSUL	FC 6 Pack (Singlemode - Loaded)
F1-FC6APCUL	F1-FC6BKAPCUL	FC 6 Pack (APC Singlemode - Loaded)
F1-SC6U	F1-SC6IUBK	SC 6 Pack (Unloaded)
F1-SC6MUL	F1-SC6IBKMUL	SC 6 Pack (Multimode - Loaded) Beige Adapters
F1-SC6SUL	F1-SC6IBKSUL	SC 6 Pack (Singlemode - Loaded) Blue Adapters
F1-SC6APCUL	F1-SC6IBKAPCUL	SC 6 Pack (APC Singlemode - Loaded) Green Adapters
F1-SC8U	F1-SC8UBK	SC 8 Pack (Unloaded)
F1-SC8MUL	F1-SC8BKMUL	SC 8 Pack (Multimode - Loaded) Beige Adapters
F1-SC8SUL	F1-SC8BKSUL	SC 8 Pack (Singlemode - Loaded) Blue Adapters
F1-SC8APCUL	F1-SC8BKAPCUL	SC 8 Pack (APC Singlemode - Loaded) Green Adapters
F1-SC6DMUL	F1-SC6DBKMUL	SC Duplex 6 Pack (Multimode - Loaded) Beige Adapters
F1-SC6DAQUL	F1-SC6DAQBKUL	SC Duplex 6 Pack (Multimode - 10 Gig Loaded) Aqua Adapters
F1-SC6DSUL	F1-SC6DBKSUL	SC Duplex 6 Pack (Singlemode - Loaded) Blue Adapters
F1-MTRJ6MUL	F1-MTRJ6BKMUL	MT-RJ 6 Pack (Multimode)
F1-LC6DMUL	F1-LC6DBKMUL	LC Duplex 6 Pack (Multimode) 12 Fibers Beige Adapters
F1-LC6DSUL	F1-LC6DBKSUL	LC Duplex 6 Pack (Singlemode) 12 Fibers Blue Adapters
F1-LC6DAPCUL	F1-LC6DBKAPCUL	LC Duplex 6 Pack (APC Singlemode) 12 Fibers Green Adapters
F1-LC6DAQUL	F1-LC6DBKAQUL	LC Duplex 6 Pack (10 Gig) 12 Fibers Aqua Adapters
F1-LC24MUL	F1-LC24BLKMUL	LC Quad 6 Pack (Multimode) 24 Fibers Beige Adapters
F1-LC24AQL	F1-LC24AQLKUL	LC Quad 6 Pack (10 Gig) 24 Fibers Aqua Adapters
F1-LC24SUL	F1-LC24BLKSUL	LC Quad 6 Pack (Singlemode) 24 Fibers Blue Adapters
F1-MTP6MUL	F1-MTP6BKMUL	MTP 6 Pack Plate Loaded with Adapters
F1-MTP8MUL	F1-MTP8BKMUL	MTP 8 Pack Plate Loaded with Adapters

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, bare fiber splices or 6 rigid fusion splices depending on the splice chips chosen. See splice holding chips below. The standard version accepts 12 fusion splice protection sleeves. Features include: fiber routing molded into the tray, fiber tie down holes, snap or slide together construction.

PART #	DESCRIPTION	DIMENSIONS
F1-6808	Single Fusion Splice Tray	7" L x 4.25" W x .48" H
F1-6808M	Mechanical Splice Tray	7" L x 4.25" W x .48" H
F1-6808BA	Bare Fiber Splice Tray	7" L x 4.25" W x .48" H



F1-6808



F1-SPL12

FIS ALUMINUM SPLICE TRAYS

The FIS Aluminum Splice Trays are compact, lightweight, and available with multiple splice holding chip and cover options. Choose the right tray for your applications. All trays are preconfigured for standard heat shrink fusion splices unless otherwise stated.

PART #	DESCRIPTION	DIMENSIONS
F1-SPL12	Aluminum Fusion Splice Tray, 12 Position	6.5" L x 4.7" W x .42" H
F1-SPL24	Aluminum Fusion Splice Tray, 24 Position	11.8" L x 4" W x .42" H
F1-6707BLKH	Aluminum Fusion Splice Tray, 6 Position	7.5" L x 4" W x .63" H
F1-6707BLKF	Aluminum Fusion Splice Tray, 12 Position	7.5" L x 4" W x .63" H
F1-6707BLKM	Aluminum Mechanical Splice Tray, 12 Position	7.5" L x 4" W x .63" H
F1-6707BLKR	Aluminum Bare Fiber, 12 Position	7.5" L x 4" W x .63" H
F1-8735C	Aluminum Fusion Splice Tray with Clear Plastic Cover, 12 Position	7" L x 4" W x .31" H
F1-8729G	Aluminum Fusion Splice Tray with Clear Plastic Cover, 12 Position	4" L x 11" W x .31" H



F1-SPL24



F1-6707BLKF

FIS SPLICE BRIDGES

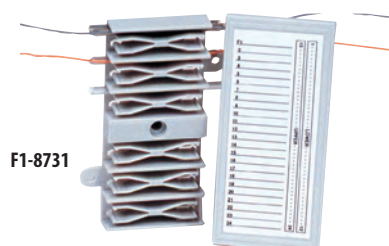
The FIS Splice Support Bridge is available in two basic designs. The 24-way splice bridge will accommodate up to 24 fusion splices or 12 mechanical. It is supplied with a protective lid with a designation label. The 4-way version will accept 4 fusion or mechanical splices.

PART #	DESCRIPTION
F1-8730	Splice Bridge (4-way) Fits in The 4 Port Wall Mount
F1-8731	Splice Bridge (up to 12 Mechanical or 24 Fusion Splices)



F1-8735

F1-8729

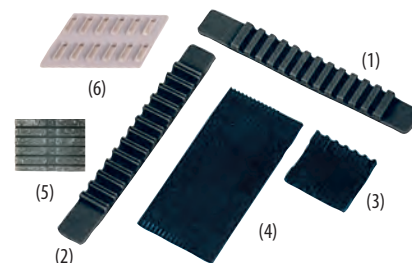


F1-8731

FIS FUSION & MECHANICAL SPLICE HOLDING CHIPS

Several styles of Splice Chips are available from FIS. Use double sided tape or epoxy to adhere soft chips to mounting surface. FIS will install any stocked Splice Chip in your FIS Splice Tray upon request.

PART #	DESCRIPTION
F1-6707FCM	Protection Sleeve Chip 12 Position (Soft) (1) (non-adhesive backing)
F1-6707MCM	Mechanical Chip 12 Position (Soft) (2) (non-adhesive backing)
FSH-MR-06	Foam Fusion Splice Chips for Mini/Micro Sleeves (5)
USC-FN12	Bare Fiber Fusion Splice Chip 12 Position (Rigid) (4)
USC-HS	Heat Shrink Splice Chip 6 Position (Rigid) (adhesive backing) (3)
FSH-LDR	Protection sleeve chip 12 position (plastic) (adhesive backing) (6)



CABLE GRIPS

PART #	DESCRIPTION
80022	Cord Grip 1/2" Gray
80020	Cord Grip 3/8" Gray



80020

80022



MINI WALL MOUNT

This powder coated aluminum wall box features a single outer door with capacity of (1) LGX style adapter plate. Bridge stances and cable spool available for fiber management. Standard color is Black.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1-MW1X	Mini Wall mount accepts (1) adapter panel	9.18"x6.38"x2.625"



FIS ECONOMY WALL MOUNT ENCLOSURES

The FIS economy wall mount has excellent features for installations including bridge stances for cable tie down of incoming and outgoing fiber cables and a removable front door. A cable management spool is included as well as a mounting stud and nut for installation of fusion splice trays. Lockable inner door provides safe storage of incoming cable, while allowing the technician to manipulate the outgoing fiber patches. Accommodates (2) or (4) multimedia adapter panels depending on size of enclosure. Standard color is Black. Custom interconnect with loaded fiber pigtails and colors available. Splice Tray sold separately. Recommended Splice Tray dimensions 7"x4".

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1-EW2X	Economy Wall Mount Fiber Distribution Enclosure, accepts (2) adapter panels (Black)	10.33"x12.12"x3.81"
F1-EW2XBW	Economy Wall Mount Fiber Distribution Enclosure, accepts (2) adapter panels (OffWhite)	10.33"x12.12"x3.81"
F1-EW4X	Economy Wall Mount Fiber Distribution Enclosure, accepts (4) adapter panels (Black)	12.24"x12.12"x3.82"
F1-EW4XBW	Economy Wall Mount Fiber Distribution Enclosure, accepts (4) adapter panels (OffWhite)	12.24"x12.12"x3.82"



Without Splice Tray



FIS DELUXE WALL MOUNT ENCLOSURES

FIS Deluxe Mount has two front doors that fold back and are removable for unlimited access to fiber cables during installations. Cable management spool and mounting stud with nut for securing fusion splice trays included. This box is powder coated Black and manufactured of Aluminum.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1-DW2X	Deluxe Wall Mount Fiber Distribution Enclosure, accepts (2) adapter panels (Black)	13"x13.51"x3"
F1-DW2XBW	Deluxe Wall Mount Fiber Distribution Enclosure, accepts (2) adapter panels (OffWhite)	13"x13.51"x3"
F1-DW4X	Deluxe Wall Mount Fiber Distribution Enclosure, accepts (4) adapter panels (Black)	13"x13.51"x3"
F1-DW4XBW	Deluxe Wall Mount Fiber Distribution Enclosure, accepts (4) adapter panels (OffWhite)	13"x13.51"x3"
F1-DW8X	Deluxe Wall Mount Fiber Distribution Enclosure, accepts (8) adapter panels (Black)	13"x13.51"x5.53"
F1-DW8XBW	Deluxe Wall Mount Fiber Distribution Enclosure, accepts (8) adapter panels (OffWhite)	13"x13.51"x5.53"
F1-DW12X	Deluxe Wall Mount Fiber Distribution Enclosure, accepts (12) adapter panels (Black)	19.22"x13.51"x5.53"
F1-DW12XBW	Deluxe Wall Mount Fiber Distribution Enclosure, accepts (12) adapter panels (OffWhite)	19.22"x13.51"x5.53"



Without Splice Tray



F1-SP288

FIS WALL MOUNT SPLICE ENCLOSURE

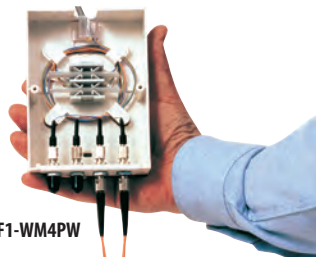
Manufactured with 16 gauge steel, this indoor enclosure provides housing for up to 288 single fusion splices. Double doors lock on both sides and cable management hardware is included. Use Starfighter 2000-SSTA splice trays to utilize maximum capacity. Splice trays not included. Holds 12 splice trays.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)
F1-SP288	FIS Wall Mount Splice Enclosure	17.5" x 21.4" x 4.75"

FIS 4 PORT WALL MOUNT

The 4-Port Wall Mount Box is a compact design ideal for data applications. It can either be wall mounted or placed in a floor box and can house up to (4) fibers, inline adapters and pigtails. Cables can be easily terminated or spliced together. The wall mount has facilities for incoming cable/fiber to be presented via mini-trunking grommets. Dimensions: 5"(W) x 6 1/2"(L) x 1 1/2"(H). **Adapters and splice chip sold separately, on page 8 and 9.**

PART #	DESCRIPTION
F1-WM4PW	4-Port for ST, FC, SMA or D4 - Adapters not included
F1-WM4S	4-Port for (2) SC Duplex Adapters - Adapters not included

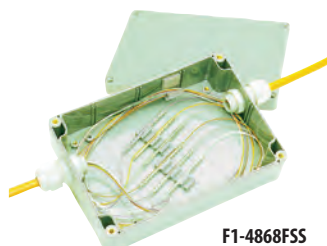


F1-WM4PW

FIS SPLICE ENCLOSURE

The splice enclosure unit utilizes a 12 position molded splice chip to secure splices, for controlled environments, to be mounted on a wall. Cable entry grommets secure incoming/outgoing cable up to 12mm. Inside clamps provide the ability to coil excess cable. The F1-2011 is the same; it replaces splice holding chips with two mounted ST Mating Sleeves, handling up to 7mm cable. Dimensions: 2 1/8"(W) x 6 3/4"(L) x 4 3/4"(H)

PART #	DESCRIPTION
F1-4868-FSS	Fusion Splice Enclosure (up to 7mm cable size)
F1-4868-MSS	Mechanical Splice Enclosure (up to 7mm cable size)
F1-4868-FLL	Fusion Splice Enclosure (7mm to 12mm cable size)
F1-4868-MLL	Mechanical Splice Enclosure (7mm to 12mm cable size)



F1-4868FSS

FIS COMPACT WALL BOX

Utilize this new wall mount box for fusion splice sleeve storage or direct connector termination. Simply place two small cable ties through the back of the box, slide the cable into box and secure. Next use the small cable management spool to store some slack prior to splicing or termination. There are knock-outs on each side of the box for simplex SC or LC duplex adapters. Built in splice sleeve holders accommodate up to two 40mm heat shrink splice sleeves. Dimensions 4”(H) x 3.25”(W) x 1”(D).

PART #	DESCRIPTION
F1-CWB02	FIS Compact Wall Box with fiber management ring and splice tray(white)



F1-OSPDBC24

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 applied 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
- Direct Burial or Aerial applications
- Can be configured for butt or in-line applications
- Integrated splice trays included
- Permanent waterproof sealing requires no re-entry kit
- IP rating:66 (Equal to NEMA 4 and 4X)

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 12 count, 24 count (Double Stacked)



F1-OSPDBC24



F1-FLEXSPLC



FIS FLEXIBLE CABLE SPLICE PROTECTOR

The FIS Flexible Cable Splice Protector is an ideal solution for protecting fiber optic splices in challenging field conditions. This rugged, easy-to-install splice protector accommodates up to 12 splices with mini or micro protection sleeves, protecting them from moisture, vibration, shock and other adverse environmental conditions.

- Use for singlemode or multimode fibers • Accommodates 25-60mm long splice sleeves
- 5” Minimum bend radius (Flexible center portion only) • Dimensions: 13.75”(L) x 1.35”(W)

PART #	DESCRIPTION
F1-FLEXSPLC	FIS Flexible Cable Splice Protector



F1-62DW-2

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. The enclosure has a built in, swing-out mini splice tray plus a bulkhead panel with SC cutouts 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 SC or 4 LC Connections) 2 Entry Ports	8.2” x 6” x 2”
F1-62DW-3	FIS NID Termination Box (For 12 SC or up to 24 LC Connections) 3 Entry Ports	10.2” x 7” x 2”



F1-62DW-3

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 2-3 days
- 100% inspection and tested to industry standards
- ISO 9001-2008 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

Our goal is to provide our customers exactly what they need and when they need it.

Just provide our sales representative a description, engineering specification, or even a drawing on a napkin and we will do the rest!

CUSTOM FIBER OPTIC CABLE ASSEMBLY CONFIGURATOR:

CABLE TYPE	FIBER TYPE	CONNECTOR SIDE A	CONNECTOR SIDE B	MODE	LENGTH (IN METERS)
S	3	7A	8U	S	X
<p>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</p>	<p>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 10=BI 50µm 10Gig - OM4</p>	<p>1=SMA905 2=SMA906 3=Biconic 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</p>	<p>W=FDDI X=Escon F=Ferrule Only M=MU/PC MU=MU/UPC 9A=PM-FC/APC 9U=PM-FC/UPC P=Pigtail AU=High Performance FC/UPC AA=High Performance FC/APC BU=High Performance SC/UPC BA=High Performance SC/APC EU=E2000/UPC EA=E2000/APC MJ=MTRJ (no pins) MT=MTP (w/pins) MP=MTRJ (w/pins) MF=MTP (no pins) VF=VF45</p>	<p>S= Singlemode M= Multimode H= Hybrid P= PM Fiber</p>	

DID YOU KNOW...

Jacket Types



- **PLENUM (OFNP)** - 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

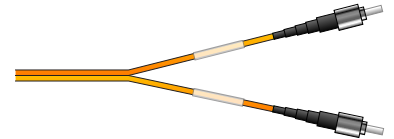


CLIPPED DUPLEX PATCHCORD

Standard Polarity A to B / B to A



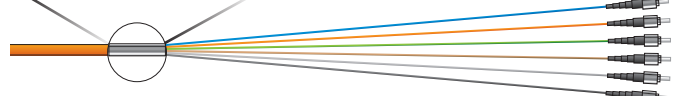
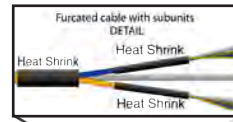
SIMPLEX PATCHCORD



UNCLIPPED DUPLEX PATCHCORD

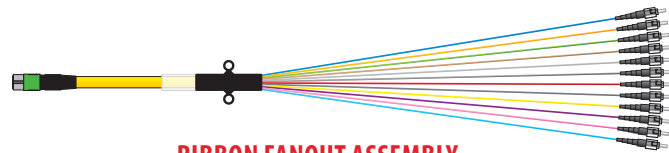


NODE CABLE ASSEMBLY

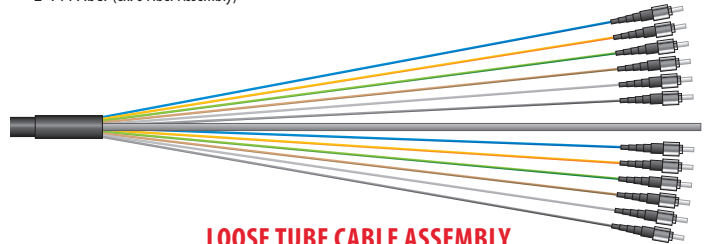


DISTRIBUTION - INDOOR/OUTDOOR ASSEMBLY

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.

CONNECTOR MFG	CABLE MFG	CABLE RATING	FIBER COUNT	BUILD-UP BREAKOUT	PULLING EYE INSTALLED
FIS	TLC	RI			
NP= No Preference FIS= FIS M= 3M MO= Molex S= Seikoh Giken CCS= Corning U= USConec CUS= Customer Supplied	NP= No Preference TLC= TLC MHK= Mohawk CCS= Corning AFL= AFL GCC= General Cable OCC= OCC HIT= Hitachi OTH= Other CUS= Customer Supplied	NP= No Preference RI= OFNR (Riser) PL= OFNP (Plenum) LZ= LSZH (Low Smoke) UV= Polyethylene/Outdoor	04=4 Fiber 06=6 Fiber 12=12 Fiber 24=24 Fiber 48=48 Fiber 72=72 Fiber 96=96 Fiber 144=144 Fiber	Z9=900µm Z1=1.8mm Z2=2mm Z3=3mm	PE= Outside End Only PBE= Both Ends

Part # Example:

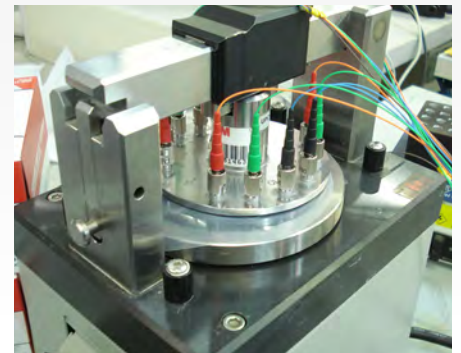
S-3-7A-8U-FIS-S-3-TLC-RI

Translates to: Simplex 9/125 FC/APC - ST/UPC with FIS brand connectors, singlemode, 3 meter, TLC cable, riser patchcord

What our Customers are saying...

"FIS has been a great resource to not only provide high quality cable assemblies but also help out in the tough situations; when I need a cord tomorrow for a network turn up, or finding a solution to a unique problem they are always there. I have yet to be disappointed."

Dave G.
Applications Engineer



MOHAWK



MTP PRE-TERMINATED SYSTEMS

The FIS MTP Module is a pre-terminated, pre-tested, rack mount module system allowing for a simple installation of MTP backbone cables with a transition to standard LC or SC connections. The FIS modules are designed to fit into rack mount boxes with LGX slot configurations. Using a pre-terminated cable assembly in conjunction with modules within a rack allows for easier installation, simpler cable management and an overall simpler installation. 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.

CUSTOM 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)	MFG	FIBER COUNT	JACKET	P/E
MD	8	MT	YU	M	3	FIS	012	PL	X
MD = Micro-Distribution	1 = 50µm MM - OM2 2 = 62.5µm MM - OM1 3 = 9µm SM - OS2 8 = 50µm 10Gig-OM3 10 = 50µm 10Gig - OM4	MT = MTP male MF = MTP female	MT = MTP male MF = MTP female YU = SC/UPC YA = SC/APC LU = LC/UPC LA = LC/APC 8U = ST/UPC 7U = FC/UPC 7A = FC/APC	S = Singlemode M = Multimode			012 = 12-fiber 024 = 24 fiber 036 = 36 fiber 048 = 48 fiber 072 = 72 fiber	R = Riser PL = Plenum LZ = Low Smoke Zero Halogen	P/E = Pulling Eye

CUSTOM MTP MODULES AND 40/100G CASSETTES AVAILABLE

- Eliminates the need for in-the-field terminations
- Performance tested to meet or exceed industry standards
- Available in a variety of bulkhead configurations
- Available in a variety of fiber types
- Reduce installation time by up to 30%
- Simplifies cable management and allows for higher density



A F1-MTP/F-LC-OS1-12



B F1-MTP/F-LC-OM3-24



MTP MODULE

PART #

PART #	DESCRIPTION
F1-MTP/F-SC-OM3-12	12-fiber 50µm OM3, 1 rear MTP/female port, 6 SC/duplex ports
F1-MTP/F-SC-OS1-12	12-fiber SM, 1 rear MTP/female port, 6 SC/duplex ports
F1-MTP/F-LC-OM3-12	12-fiber 50µm OM3, 1 rear MTP/female port, 6 front LC/duplex ports
F1-MTP/F-LC-OS1-12	12-fiber SM, 1 rear MTP/female port, 6 front LC/duplex ports (A)
F1-MTP/F-LC-OM3-24	24-fiber 50µm OM3, 2 rear MTP/female ports, 6 front LC/quad ports (B)
F1-MTP/F-LC-OS1-24	24-fiber SM, 2 rear MTP/female ports, 6 front LC/quad ports

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

MTP TRUNK CABLES

PART #

PART #	DESCRIPTION
MD-8-MT-MT-M-**-FIS-012-PLN	12-fiber, 50µm 10Gig/OM3, (1) MTP/male - (1) MTP/male, plenum
MD-3-MT-MT-S-**-FIS-012-PLN	12-fiber, 9µm SM/OS1, (1) MTP/male - (1) MTP/male, plenum
MD-8-MT-MT-M-**-FIS-024-PLN	24-fiber, 50µm 10Gig/OM3, (2) MTP/male - (2) MTP/male, plenum
MD-3-MT-MT-S-**-FIS-024-PLN	24-fiber, 9µm SM/OS1, (2) MTP/male - (2) MTP/male, plenum
MD-8-MT-MT-M-**-FIS-036-PLN	36-fiber, 50µm 10Gig/OM3, (3) MTP/male - (3) MTP/male, plenum
MD-3-MT-MT-S-**-FIS-036-PLN	36-fiber, 9µm SM/OS1, (3) MTP/male - (3) MTP/male, plenum
MD-8-MT-MT-M-**-FIS-048-PLN	48-fiber, 50µm 10Gig/OM3, (4) MTP/male - (4) MTP/male, plenum
MD-3-MT-MT-S-**-FIS-048-PLN	48-fiber, 9µm SM/OS1, (4) MTP/male - (4) MTP/male, plenum
MD-8-MT-MT-M-**-FIS-072-PLN	72-fiber, 50µm 10Gig/OM3, (6) MTP/male - (6) MTP/male, plenum
MD-3-MT-MT-S-**-FIS-072-PLN	72-fiber, 9µm SM/OS1, (6) MTP/male - (6) MTP/male, plenum

** Trunk cable pricing = termination + per meter cable **

Example: 50 meter 24-fiber SM cable: \$168.00 (termination) + \$126.00 (\$2.52 x 50 meters) = \$294.00 total

BUILD YOUR OWN CUSTOM SPLITTER COUPLER MODULE/PACKAGE

BOX STYLE	CORE/CLAD SIZE	DEVICE/ CHANNELS	CONFIGURATION	SPLIT RATIO	CONN. TYPE (INPUT)	CONN. TYPE (OUTPUT)	OPTIONS
RMC	3	S	2	20	8U	8U	6
RMC = LGX Style Rack Mount RSC = Ruggedized Style Splitter PNC = Packaged Network Coupler BC = No Box, Standard Package RU = 1 RU Panel	1=50/125µm - OM2 2=62.5/125µm - OM1 3=8-9/125µm - OS2 8=50µm10Gig - OM3 10=50µm10Gig - OM4	S - Splitter/Coupler W - WDM D - DWDM CM-CWDM MUX CD-CWDM Demux AC-1291-1351 BC-1471-1531 CC-1511-1571 DC-1551-1611 LC-1471-1611	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	7= FC/PC 7U= FC/UPC 7A= FC/APC 8= ST/PC 8U= ST/UPC Y=SC/PC YU= SC/UPC YA= SC/APC	7= FC/PC 7U= FC/UPC 7A= FC/APC 8= ST/PC 8U= ST/UPC 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

**Part # Example:
RMC-3-S-2-20-8U-8U-6**

Translates to: Rack Mount Coupler Module, Single-mode 1x2, 20/80 Split Ratio, ST/UPC Input & Output SINGLE WIDTH MODULE



1U Splitter Panel

FIS HIGH PORT COUNT SM COUPLERS

These multiple port splitters are manufactured with high performance fused singlemode couplers and are often referred to as Tree or Star coupler/splitters. Quality splitter boxes feature low insertion loss and can be fused to building cable or terminated with any standard fiber optic connector. Product has 1 meter tails on both ends of packaging. FIS can terminate these splitters prior to delivery, consult with a FIS sales associate.

PART #	DESCRIPTION	DIMENSIONS
SSSCA1X43529C	SM Tree Coupler Module, 1x4, 1310/1550nm 900µm	100 X 80 X 10mm
SSSCA1X815510	SM Tree Coupler Module, 1x8, 1550nm, 900µm	125 X 96 X 16mm
SSSCA1X1615500	SM Tree Coupler Module, 1x16, 1550nm, 900µm	125 X 96 X 16mm



SSSCA1X1615500

RACK MOUNTABLE SPLITTER MODULES

These LGX style rack mountable splitter/coupler modules are convenient for quick installation and protect components from being damaged. Simply install module into compatible LGX style fiber enclosure, plug in plant cable and/or patch cables for distribution of optical signal. **Custom configurations/split ratios/connector styles available.**

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



CWDM LGX STYLE MODULES

FIS CWDM LGX modules provide the most economic and efficient wavelength division multiplexing solution. Available in 4, 8 or 16 channel mux and demux configurations. The CWDM modules are bi-directional, have low insertion loss and feature 20nm channel separation. DWDM modules also available. **Other configurations available.**

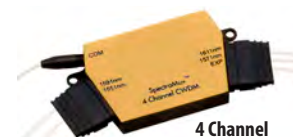
PART #	DESCRIPTION
RMC-3-CM-8-LC-YA-YA-6	CWDM LGX Module, 8 Channel, 1471-1611nm, 20nm spacing, Mux, SC/APC Adapters
RMC-3-CD-8-LC-YA-YA-6	CWDM LGX Module, 8 Channel, 1471-1611nm, 20nm spacing, Demux, SC/APC Adapters
RMC-3-CM-4-BC-YA-YA-6	CWDM LGX Module, 4 Channel, 1471-1531nm, 20nm spacing, Mux, SC/APC Adapters
RMC-3-CD-4-BC-YA-YA-6	CWDM LGX Module, 4 Channel, 1471-1531nm, 20nm spacing, Demux, SC/APC Adapters
RMC-3-CM-4-TC-YA-YA-6	CWDM LGX Module, 4 Channel, 1551-1611nm, 20nm spacing, Mux, SC/APC Adapters
RMC-3-CD-4-TC-YA-YA-6	CWDM LGX Module, 4 Channel, 1551-1611nm, 20nm spacing, Demux, SC/APC Adapters



COMPACT CWDM PACKAGE

FIS CWDM compact package features channel spacing of 20nm with wide bandpass characteristics. Available in 4 or 8 channel wavelengths. These compact packages are ultra stable and highly reliable. Commonly used in splice tray applications or outdoor enclosures. **Available in 1291-1611nm channel spacing.**

PART #	DESCRIPTION
BC-3-CM-8-LC-YA-YA-5	CWDM Compact Package, 8 Channel, 1471-1611nm, 20nm spacing, Mux, SC/APC Adapters
BC-3-CD-8-LC-YA-YA-5	CWDM Compact Package, 8 Channel, 1471-1611nm, 20nm spacing, Demux, SC/APC Adapters
BC-3-CM-4-AC-YA-YA-5	CWDM Compact Package, 4 Channel, 1291-1351nm, 20nm spacing, Mux, SC/APC Adapters
BC-3-CM-4-BC-YA-YA-5	CWDM Compact Package, 4 Channel, 1471-1531nm, 20nm spacing, Mux, SC/APC Adapters



4 Channel



8 Channel


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
S388S1FISC	ST-ST	1 Meter	3mm
S388S2FISC	ST-ST	2 Meters	3mm
S388S3FISC	ST-ST	3 Meters	3mm
S388S5FISC	ST-ST	5 Meters	3mm
S388S10FISC	ST-ST	10 Meters	3mm
S388S15FISC	ST-ST	15 Meters	3mm
S388S20FISC	ST-ST	20 Meters	3mm
S3YYS1FISC	SC-SC	1 Meter	3mm
S3YYS2FISC	SC-SC	2 Meters	3mm
S3YYS3FISC	SC-SC	3 Meters	3mm
S3YYS5FISC	SC-SC	5 Meters	3mm
S3YYS10FISC	SC-SC	10 Meters	3mm
S3YYS15FISC	SC-SC	15 Meters	3mm
S3YYS20FISC	SC-SC	20 Meters	3mm
Y3LLS1FISC	LC-LC	1 Meter	1.6mm
Y3LLS2FISC	LC-LC	2 Meters	1.6mm
Y3LLS3FISC	LC-LC	3 Meters	1.6mm
Y3LLS5FISC	LC-LC	5 Meters	1.6mm
Y3LLS10FISC	LC-LC	10 Meters	1.6mm
Y3LLS15FISC	LC-LC	15 Meters	1.6mm
Y3LLS20FISC	LC-LC	20 Meters	1.6mm
S38YS1FISC	ST-SC	1 Meter	3mm
S38YS2FISC	ST-SC	2 Meters	3mm
S38YS3FISC	ST-SC	3 Meters	3mm
S38YS5FISC	ST-SC	5 Meters	3mm
S38YS10FISC	ST-SC	10 Meters	3mm
S38YS15FISC	ST-SC	15 Meters	3mm
S38YS20FISC	ST-SC	20 Meters	3mm
Y3LYS1FISC	LC-SC	1 Meter	1.6mm
Y3LYS2FISC	LC-SC	2 Meters	1.6mm
Y3LYS3FISC	LC-SC	3 Meters	1.6mm
Y3LYS5FISC	LC-SC	5 Meters	1.6mm
Y3LYS10FISC	LC-SC	10 Meters	1.6mm
Y3LYS15FISC	LC-SC	15 Meters	1.6mm
Y3LYS20FISC	LC-SC	20 Meters	1.6mm
S377S1FISC	FC-FC	1 Meter	3mm
S377S2FISC	FC-FC	2 Meters	3mm
S377S3FISC	FC-FC	3 Meters	3mm
S377S5FISC	FC-FC	5 Meters	3mm
S377S10FISC	FC-FC	10 Meters	3mm
S377S15FISC	FC-FC	15 Meters	3mm
S377S20FISC	FC-FC	20 Meters	3mm

UPC SINGLEMODE DUPLEX PATCHCORDS

PART #	DESCRIPTION	LENGTH	JACKET SIZE
X3LYS1FISC	LC-SC	1 Meter	1.6mm
X3LYS2FISC	LC-SC	2 Meters	1.6mm
X3LYS3FISC	LC-SC	3 Meters	1.6mm
X3LYS5FISC	LC-SC	5 Meters	1.6mm
X3LYS10FISC	LC-SC	10 Meters	1.6mm
X3LYS15FISC	LC-SC	15 Meters	1.6mm
X3LYS20FISC	LC-SC	20 Meters	1.6mm
D3YYS1FISC	SC-SC	1 Meter	3mm
D3YYS2FISC	SC-SC	2 Meters	3mm
D3YYS3FISC	SC-SC	3 Meters	3mm
D3YYS5FISC	SC-SC	5 Meters	3mm
D3YYS10FISC	SC-SC	10 Meters	3mm
D3YYS15FISC	SC-SC	15 Meters	3mm
D3YYS20FISC	SC-SC	20 Meters	3mm
D388S1FISC	ST-ST	1 Meter	3mm
D388S2FISC	ST-ST	2 Meters	3mm
D388S3FISC	ST-ST	3 Meters	3mm
D388S5FISC	ST-ST	5 Meters	3mm
D388S10FISC	ST-ST	10 Meters	3mm
D388S15FISC	ST-ST	15 Meters	3mm
D388S20FISC	ST-ST	20 Meters	3mm
D38YS1FISC	ST-SC	1 Meter	3mm
D38YS2FISC	ST-SC	2 Meters	3mm
D38YS3FISC	ST-SC	3 Meters	3mm
D38YS5FISC	ST-SC	5 Meters	3mm
D38YS10FISC	ST-SC	10 Meters	3mm
D38YS15FISC	ST-SC	15 Meters	3mm
D38YS20FISC	ST-SC	20 Meters	3mm
D377S1FISC	FC-FC	1 Meter	3mm
D377S2FISC	FC-FC	2 Meters	3mm
D377S3FISC	FC-FC	3 Meters	3mm
D377S5FISC	FC-FC	5 Meters	3mm
D377S10FISC	FC-FC	10 Meters	3mm
D377S15FISC	FC-FC	15 Meters	3mm
D377S20FISC	FC-FC	20 Meters	3mm
X3LLS1FISC	LC-LC	1 Meter	1.6mm
X3LLS2FISC	LC-LC	2 Meters	1.6mm
X3LLS3FISC	LC-LC	3 Meters	1.6mm
X3LLS5FISC	LC-LC	5 Meters	1.6mm
X3LLS10FISC	LC-LC	10 Meters	1.6mm
X3LLS15FISC	LC-LC	15 Meters	1.6mm
X3LLS20FISC	LC-LC	20 Meters	1.6mm



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


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	PRICE
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	

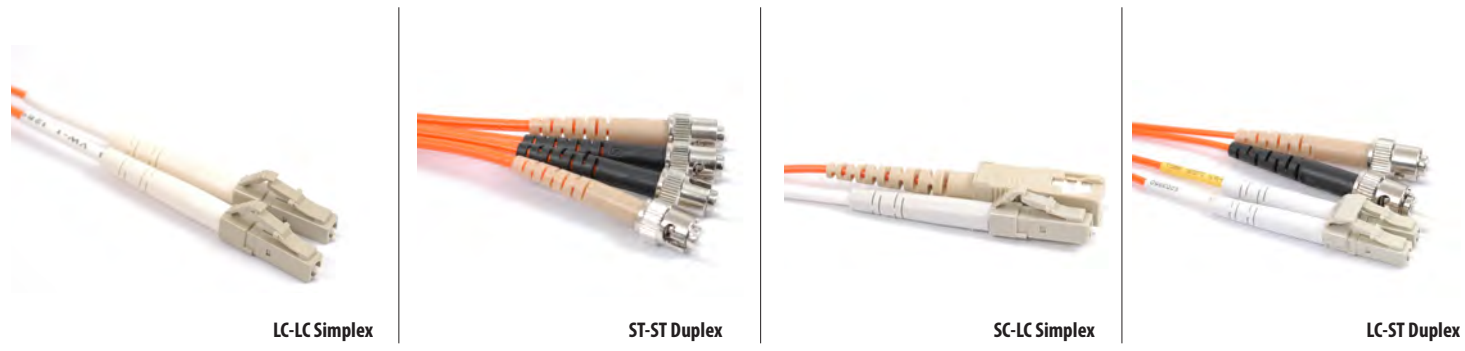
1.6mm MTRJ Female Multimode 62.5µm - OM1

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

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



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
S2YYM1FISC	SC-SC	1 Meter	3mm
S2YYM2FISC	SC-SC	2 Meters	3mm
S2YYM3FISC	SC-SC	3 Meters	3mm
S2YYM5FISC	SC-SC	5 Meters	3mm
S2YYM10FISC	SC-SC	10 Meters	3mm
S2YYM15FISC	SC-SC	15 Meters	3mm
S2YYM20FISC	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

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

MULTIMODE DUPLEX PATCHCORDS 62.5µm - OM1

PART #	DESCRIPTION	LENGTH	JACKET SIZE
D2YYM1FISC	SC-SC	1 Meter	3mm
D2YYM2FISC	SC-SC	2 Meters	3mm
D2YYM3FISC	SC-SC	3 Meters	3mm
D2YYM5FISC	SC-SC	5 Meters	3mm
D2YYM10FISC	SC-SC	10 Meters	3mm
D2YYM15FISC	SC-SC	15 Meters	3mm
D2YYM20FISC	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
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


APC SC-SC Simplex

APC SC-SC Duplex

LC-SC Duplex XB

SC-SC Duplex XB
SINGLEMODE SIMPLEX APC PATCHCORDS - OS2

PART #	DESCRIPTION	LENGTH	JACKET SIZE	PRICE
Y3LALAS1FISC	LC-LC	1 Meter	1.6mm	
Y3LALAS2FISC	LC-LC	2 Meters	1.6mm	
Y3LALAS3FISC	LC-LC	3 Meters	1.6mm	
Y3LALAS5FISC	LC-LC	5 Meters	1.6mm	
Y3LALAS10FISC	LC-LC	10 Meters	1.6mm	
Y3LALAS15FISC	LC-LC	15 Meters	1.6mm	
Y3LALAS20FISC	LC-LC	20 Meters	1.6mm	
S3YAYAS1FISC	SC-SC	1 Meter	3mm	
S3YAYAS2FISC	SC-SC	2 Meters	3mm	
S3YAYAS3FISC	SC-SC	3 Meters	3mm	
S3YAYAS5FISC	SC-SC	5 Meters	3mm	
S3YAYAS10FISC	SC-SC	10 Meters	3mm	
S3YAYAS15FISC	SC-SC	15 Meters	3mm	
S3YAYAS20FISC	SC-SC	20 Meters	3mm	
S37AYAS1FISC	FC-SC	1 Meter	3mm	
S37AYAS2FISC	FC-SC	2 Meters	3mm	
S37AYAS3FISC	FC-SC	3 Meters	3mm	
S37AYAS5FISC	FC-SC	5 Meters	3mm	
S37AYAS10FISC	FC-SC	10 Meters	3mm	
S37AYAS15FISC	FC-SC	15 Meters	3mm	
S37AYAS20FISC	FC-SC	20 Meters	3mm	

SINGLEMODE DUPLEX APC PATCHCORDS - OS2

PART #	DESCRIPTION	LENGTH	JACKET SIZE
X3LALAS1FISC	LC-LC	1 Meter	1.6mm
X3LALAS2FISC	LC-LC	2 Meters	1.6mm
X3LALAS3FISC	LC-LC	3 Meters	1.6mm
X3LALAS5FISC	LC-LC	5 Meters	1.6mm
X3LALAS10FISC	LC-LC	10 Meters	1.6mm
X3LALAS15FISC	LC-LC	15 Meters	1.6mm
X3LALAS20FISC	LC-LC	20 Meters	1.6mm
D3YAYAS1FISC	SC-SC	1 Meter	3mm
D3YAYAS2FISC	SC-SC	2 Meters	3mm
D3YAYAS3FISC	SC-SC	3 Meters	3mm
D3YAYAS5FISC	SC-SC	5 Meters	3mm
D3YAYAS10FISC	SC-SC	10 Meters	3mm
D3YAYAS15FISC	SC-SC	15 Meters	3mm
D3YAYAS20FISC	SC-SC	20 Meters	3mm
D37AYAS1FISC	FC-SC	1 Meter	3mm
D37AYAS2FISC	FC-SC	2 Meters	3mm
D37AYAS3FISC	FC-SC	3 Meters	3mm
D37AYAS5FISC	FC-SC	5 Meters	3mm
D37AYAS10FISC	FC-SC	10 Meters	3mm
D37AYAS15FISC	FC-SC	15 Meters	3mm
D37AYAS20FISC	FC-SC	20 Meters	3mm

**SINGLEMODE UPC SIMPLEX CLEARCURVE® XB
BEND INSENSITIVE PATCHCORDS - G.657.A1**

PART #	DESCRIPTION	LENGTH	JACKET SIZE
S98YS1FISCXB	ST-SC	1 Meter	3mm
S98YS2FISCXB	ST-SC	2 Meters	3mm
S98YS3FISCXB	ST-SC	3 Meters	3mm
S98YS5FISCXB	ST-SC	5 Meters	3mm
S98YS10FISCXB	ST-SC	10 Meters	3mm
S98YS15FISCXB	ST-SC	15 Meters	3mm
S98YS20FISCXB	ST-SC	20 Meters	3mm
Y9LYS1FISCXB	LC-SC	1 Meter	1.6mm
Y9LYS2FISCXB	LC-SC	2 Meters	1.6mm
Y9LYS3FISCXB	LC-SC	3 Meters	1.6mm
Y9LYS5FISCXB	LC-SC	5 Meters	1.6mm
Y9LYS10FISCXB	LC-SC	10 Meters	1.6mm
Y9LYS15FISCXB	LC-SC	15 Meters	1.6mm
Y9LYS20FISCXB	LC-SC	20 Meters	1.6mm
S977S1FISCXB	FC-FC	1 Meter	3mm
S977S2FISCXB	FC-FC	2 Meters	3mm
S977S3FISCXB	FC-FC	3 Meters	3mm
S977S5FISCXB	FC-FC	5 Meters	3mm
S977S10FISCXB	FC-FC	10 Meters	3mm
S977S15FISCXB	FC-FC	15 Meters	3mm
S977S20FISCXB	FC-FC	20 Meters	3mm

**SINGLEMODE DUPLEX SIMPLEX CLEARCURVE® XB
BEND INSENSITIVE PATCHCORDS - G.657.A1**

PART #	DESCRIPTION	LENGTH	JACKET SIZE
X9LYS1FISCXBXB	LC-SC	1 Meter	1.6mm
X9LYS2FISCXB	LC-SC	2 Meters	1.6mm
X9LYS3FISCXB	LC-SC	3 Meters	1.6mm
X9LYS5FISCXB	LC-SC	5 Meters	1.6mm
X9LYS10FISCXB	LC-SC	10 Meters	1.6mm
X9LYS15FISCXB	LC-SC	15 Meters	1.6mm
X9LYS20FISCXB	LC-SC	20 Meters	1.6mm
D9YYS1FISCXB	SC-SC	1 Meter	3mm
D9YYS2FISCXB	SC-SC	2 Meters	3mm
D9YYS3FISCXB	SC-SC	3 Meters	3mm
D9YYS5FISCXB	SC-SC	5 Meters	3mm
D9YYS10FISCXB	SC-SC	10 Meters	3mm
D9YYS15FISCXB	SC-SC	15 Meters	3mm
D9YYS20FISCXB	SC-SC	20 Meters	3mm
X9LLS1FISCXB	LC-LC	1 Meter	1.6mm
X9LLS2FISCXB	LC-LC	2 Meters	1.6mm
X9LLS3FISCXB	LC-LC	3 Meters	1.6mm
X9LLS5FISCXB	LC-LC	5 Meters	1.6mm
X9LLS10FISCXB	LC-LC	10 Meters	1.6mm
X9LLS15FISCXB	LC-LC	15 Meters	1.6mm
X9LLS20FISCXB	LC-LC	20 Meters	1.6mm

VOLITION PATCHCORDS

PART #	DESCRIPTION	LENGTH
VOLV9L/R2	VF-45 - VF-45 - Singlemode	2 Meters
VOLV9L/R3	VF-45 - VF-45 - Singlemode	3 Meters
VOLV9L/R5	VF-45 - VF-45 - Singlemode	5 Meters
VOLV9L/R15	VF-45 - VF-45 - Singlemode	15 Meters
VOLV6L/R1	VF-45 - VF-45 - Multimode (62.5µm)	1 Meter
VOLV6L/R2	VF-45 - VF-45 - Multimode (62.5µm)	2 Meters
VOLV6L/R3	VF-45 - VF-45 - Multimode (62.5µm)	3 Meters
VOLV6L/R5	VF-45 - VF-45 - Multimode (62.5µm)	5 Meters
VOLV6L/R10	VF-45 - VF-45 - Multimode (62.5µm)	10 Meters
G2VF8M1FIS	VF-45 -ST - Multimode (62.5µm)	1 Meter
G2VF8M2FIS	VF-45 -ST - Multimode (62.5µm)	2 Meters
G2VF8M3FIS	VF-45 -ST - Multimode (62.5µm)	3 Meters
G2VF8M5FIS	VF-45 -ST - Multimode (62.5µm)	5 Meters
G2VF8M10FIS	VF-45 -ST - Multimode (62.5µm)	10 Meters
G2VFLM1FIS	VF-45 -LC - Multimode (62.5µm)	1 Meter
G2VFLM2FIS	VF-45 -LC - Multimode (62.5µm)	2 Meters
G2VFLM3FIS	VF-45 -LC - Multimode (62.5µm)	3 Meters
G2VFLM5FIS	VF-45 -LC - Multimode (62.5µm)	5 Meters
G2VFLM10FIS	VF-45 -LC - Multimode (62.5µm)	10 Meters
G2VfYM1FIS	VF-45 -SC - Multimode (62.5µm)	1 Meter
G2VfYM2FIS	VF-45 -SC - Multimode (62.5µm)	2 Meters
G2VfYM3FIS	VF-45 -SC - Multimode (62.5µm)	3 Meters
G2VfYM5FIS	VF-45 -SC - Multimode (62.5µm)	5 Meters
G2VfYM10FIS	VF-45 -SC - Multimode (62.5µm)	10 Meters
G2VfMJM1FIS	VF-45 -MTRJ - Multimode (62.5µm)	1 Meter
G2VfMJM2FIS	VF-45 -MTRJ - Multimode (62.5µm)	2 Meters
G2VfMJM3FIS	VF-45 -MTRJ - Multimode (62.5µm)	3 Meters
G2VfMJM5FIS	VF-45 -MTRJ - Multimode (62.5µm)	5 Meters
G2VfMJM10FIS	VF-45 -MTRJ - Multimode (62.5µm)	10 Meters



VF-45 - V-45



VF-45 - V-45 Singlemode



VF-45 - SC - Multimode



VF-45 - LC - Multimode

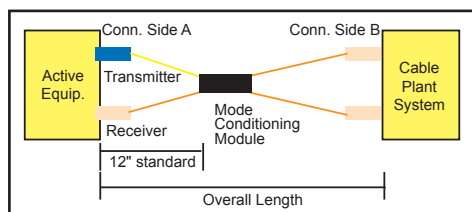
MODE CONDITIONING PATCHCORDS

Mode Conditioning Patchcords are used in conjunction with laser transmitters with VCSEL for 1 Gb with FDDI fiber in fiber optic links to improve the transition bandwidth by the reduction of modal dispersion. These cords can be assembled in various configurations to meet your specific needs. Contact your FIS sales representative for pricing and delivery. Improve the performance of your network today.

Part # Example:

F1-MCP-3-1-SC-SC

Translates to: Mode Conditioning Patchcord 3 meters length, 50/125µm, SC connectors both ends.



CUSTOM MODE CONDITIONING MATRIX

MODE COND.	LENGTH IN METERS	MULTIMODE LEGS	CONN. Side A	CONN. Side B
F1-MCP	3	1	SC	SC
		CORE / CLAD SIZE 1=50/125µm - OM2 2=62.5/125µm - OM1	CONNECTORS SC=SC/PC ST=ST/PC LC=LC/PC MJ=MTRJ (no pins) MP=MTRJ (w/pins)	CONNECTORS SC=SC/PC ST=ST/PC LC=LC/PC MJ=MTRJ (no pins) MP=MTRJ (w/pins)



F1-MCP-1-2-SC-SC

ALL PATCHCORDS

3mm Duplex Jacketing

SC-SC MCP MULTIMODE 62.5/125µm

PART #	LENGTH
F1-MCP-1-2-SC-SC	1 Meter
F1-MCP-3-2-SC-SC	3 Meters
F1-MCP-5-2-SC-SC	5 Meters
F1-MCP-10-2-SC-SC	10 Meters

SC-ST MCP MULTIMODE 62.5/125µm

PART #	LENGTH
F1-MCP-1-2-SC-ST	1 Meter
F1-MCP-3-2-SC-ST	3 Meters
F1-MCP-5-2-SC-ST	5 Meters
F1-MCP-10-2-SC-ST	10 Meters

LC-SC MCP MULTIMODE 62.5/125µm

PART #	LENGTH
F1-MCP-1-2-LC-SC	1 Meter
F1-MCP-3-2-LC-SC	3 Meters
F1-MCP-5-2-LC-SC	5 Meters
F1-MCP-10-2-LC-SC	10 Meters

LC-ST MCP MULTIMODE 62.5/125µm

PART #	LENGTH
F1-MCP-1-2-LC-ST	1 Meter
F1-MCP-3-2-LC-ST	3 Meters
F1-MCP-5-2-LC-ST	5 Meters
F1-MCP-10-2-LC-ST	10 Meters

ST-ST MCP MULTIMODE 62.5/125µm

PART #	LENGTH
F1-MCP-1-2-ST-ST	1 Meter
F1-MCP-3-2-ST-ST	3 Meters
F1-MCP-5-2-ST-ST	5 Meters
F1-MCP-10-2-ST-ST	10 Meters

For technical Information you can't find elsewhere, check out our whitepapers online!

www.fiberinstrumentsales.com



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

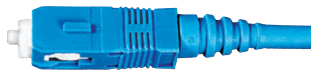


F1-2071

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

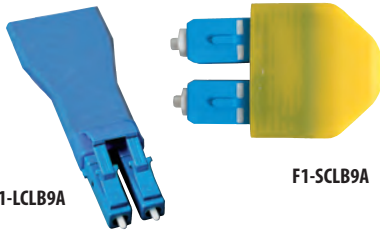


F1-3071

FIS LOOPBACK MODULES

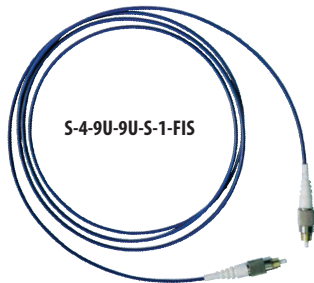
Loopbacks are designed for testing, engineering and the burn-in stage of boards or other equipment. They provide system test engineers a simple but effective way of testing the transmission capability and receiver sensitivity of network equipment.

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



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

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

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 below 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 below 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

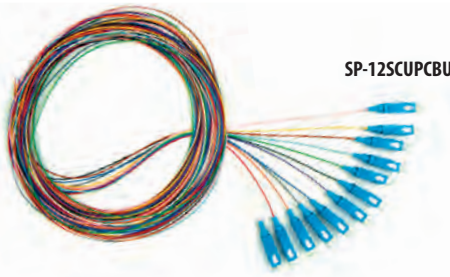
INSERTION LOSS

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

RETURN LOSS

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





SP-12SCUPCBU

Multimode Pigtails Available!



DSP12LCUPC

PIGTAILS FOR SPLICING-COLOR CODED 6 & 12 PACKS

6 Pack includes fiber colors of Blue/Orange/Green/Brown/Slate/White and are length of 3 meters. 12 Pack includes all twelve standard industry colors. Single-mode UPC - typical loss .3dB, back reflection -55dB / APC -typical loss .2dB, min. back reflection -65dB. Multimode Typical Insertion Loss - max. .4dB

PART #	DESCRIPTION
SP-6SCUPC-BU	SC/UPC Singlemode 900µm (6 pack) with blue boots
SP-12SCUPC-BU	SC/UPC Singlemode 900µm(12 pack) with blue boots
SP-6SCAPC-GR	SC/APC Singlemode 900µm (6 pack) with green boots
SP-12SCAPC-GR	SC/APC Singlemode 900µm (12 pack) with green boots
SP-6SCMM-BG	SC/PC 62.5µm 900µm (6 pack) with beige boots
SP-12SCMM-BG	SC/PC 62.5µm 900µm (12 pack) with beige boots
SP-6SCMM50-BLK	SC/PC 50µm 900µm (6 pack) with black boots
SP-12SCMM50-BLK	SC/PC 50µm 900µm (12 pack) with black boots
SP-6SCMM50G-AQ	SC/PC 50µm OM3 900µm (6 pack) with aqua boots
SP-12SCMM50G-AQ	SC/PC 50µm OM3 900µm (12 pack) with beige boots
SP-6LCUPC-BU	LC/UPC Singlemode 900µm (6 pack) with blue boots
SP-12LCUPC-BU	LC/UPC Singlemode 900µm (12 pack) with blue boots
SP-6LCMM-BG	LC/PC 62.5µm, 900µm (6 pack) with beige boots
SP-6LCMM50-BLK	LC/PC 50µm, 900µm (6 pack) with black boots
SP-6LCMM50G-AQ	LC/PC 50µm OM3 10G, 900µm (6 pack) with aqua boots
SP-12LCMM-BG	LC/PC 62.5µm, 900µm (12 pack) with beige boots
SP-12LCMM50-BLK	LC/PC 50µm, 900µm (12 pack) with black boots
SP-12LCMM50G-AQ	LC/PC 50µm OM3 10G, 900µm (12 pack) with aqua boots
SP-6STMM-BG	ST/PC 62.5µm 900µm (6 pack) with beige boots
SP-6STMM50-BLK	ST/PC 50µm, 900µm (6 pack) with black boots
SP-12STMM-BG	ST/PC 62.5µm, 900µm (12 pack) with beige boots
SP-12STMM50-BLK	ST/PC 50µm, 900µm (12 pack) with black boots
SP-6STUPC-BU	ST/UPC Singlemode 900µm (6 pack) with blue boots
SP-12STUPC-BU	ST/UPC Singlemode 900µm (12 pack) with blue boots

RIBBON FAN-OUT PACKS

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 adapter panels provide convenience to technicians splicing into fiber distribution frames. Available in 6 or 12 fiber bundles with TIA-598-A standard color code, these bundled fibers provide cable management from patchpanel to splice bays. Custom lengths and different connector style adapter panels are available, contact your FIS sales associate.

PART #	DESCRIPTION
F1-SC6LS-SPN	(6) Adapters, SC/UPC, 6 Fiber Pigtail, Singlemode, 3 Meters
F1-DSC6LS-SPN	(6) Duplex Adapters, SC/UPC, 12 Fiber Pigtail, Singlemode, 3 Meters
F1-SC6APC-SPN	(6) Adapters, SC/APC, 6 Fiber Pigtail, Singlemode 3 Meters
F1-LC6DL-SPN	(6) Duplex Adapters, LC/UPC, 12 Fiber Pigtail, Singlemode, 3 Meters
F1-DSC6LM-SPN	(6) Duplex Adapters, SC, 12 Fiber Pigtail, 62.5/125µm OM1, 3 Meters
F1-ST6LM-SPN	(6) Adapters, ST, 6 Fiber Pigtail, 62.5/125µm OM1, 3 Meters
F1-ST6LS-SPN	(6) Adapters, ST, 6 Fiber Pigtail, Singlemode, 3 Meters
F1-SC6LM-SPN	(6) Adapters, SC/PC 6 Fiber Pigtails, 62.5/125µm, 3 Meters
F1-SC6LM50-SPN	(6) Adapters, SC/PC 6 Fiber Pigtails, 50/125µm, 3 Meters
F1-SC6LM50G-SPN	(6) Adapters, SC/PC 6 Fiber Pigtails, 50/125µm OM3 10G, 3 Meters
F1-DSC6LM50-SPN	(6) Duplex Adapters, SC/PC 12 Fiber Pigtails, 50/125µm, 3 Meters
F1-DSC6LM50G-SPN	(6) Duplex Adapters, SC/PC 12 Fiber Pigtails, 50/125µm OM3 10G, 3 Meters
F1-LC6DLM-SPN	(6) Duplex Adapters, LC/PC 12 Fiber Pigtails, 62.5/125µm, 3 Meters
F1-LC6DLM50-SPN	(6) Duplex Adapters, LC/PC 12 Fiber Pigtails, 50/125µm, 3 Meters
F1-LC6DLM50G-SPN	(6) Duplex Adapters, LC/PC 12 Fiber Pigtails, OM3 10G, 3 Meters

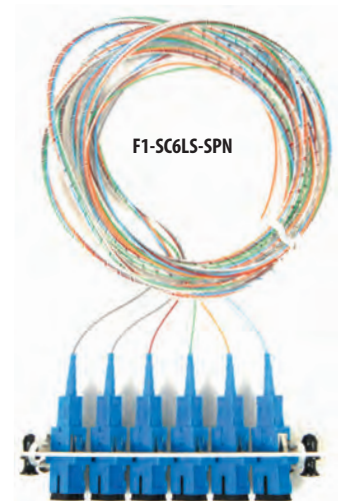
DISTRIBUTION STYLE PIGTAILS - 3 METERS

Distribution Style Pigtails are similar to 900µm Color Coded Pigtails; the only difference being that the individual 900µm tight buffered fibers are enclosed in an outer PVC jacket. Yellow for SM, Aqua for 50µm OM3, and Orange for 62.5 OM1 and 50µm OM2. Typical losses are the same as for individual 900µm pigtails.

PART #	DESCRIPTION
DSP6SCUPCBU	6 Fiber SC/UPC Distribution Style Pigtail, SM, Blue Boots
DSP12SCUPCBU	12 Fiber SC/UPC Distribution Style Pigtail, SM, Blue Boots
DSP6SCAPCGR	6 Fiber SC/APC Distribution Style Pigtail, SM, Green Boots
DSP12SCAPCGR	12 Fiber SC/APC Distribution Style Pigtail, SM, Green Boots
DSP6LCUPCBU	6 Fiber LC/UPC Distribution Style Pigtail, SM, Blue Boots
DSP12LCUPCBU	12 Fiber LC/UPC Distribution Style Pigtail, SM, Blue Boots
DSP6SCMM50GAQ	6 Fiber SC/UPC Distribution Style Pigtail, MM, 50µm, OM3 Aqua Boots
DSP12SCMM50GAQ	12 Fiber SC/UPC Distribution Style Pigtail, MM, 50µm, OM3 Aqua Boots
DSP6LCMM50GAQ	6 Fiber LC/UPC Distribution Style Pigtail, MM, 50µm, OM3 Aqua Boots
DSP12LCMM50GAQ	12 Fiber LC/UPC Distribution Style Pigtail, MM, 50µm, OM3 Aqua Boots



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



F1-SC6LS-SPN

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	
SDW13550122UC	1x2 (1310/1550nm) 50/50 Ratio
SDW13510122UC	1x2 (1310/1550nm) 10/90 Ratio
SDW13520122UC	1x2 (1310/1550nm) 20/80 Ratio
SDW13530122UC	1x2 (1310/1550nm) 30/70 Ratio
SDW13540122UC	1x2 (1310/1550nm) 40/60 Ratio
SDW13550222UC	2x2 (1310/1550nm) 50/50 Ratio
900µm	
SDW13550129UC	1x2 (1310/1550nm) 50/50 Ratio
SDW13550129UC	1x2 (1310/1550nm) 10/90 Ratio
SDW13520129UC	1x2 (1310/1550nm) 20/80 Ratio
SDW13530129UC	1x2 (1310/1550nm) 30/70 Ratio
SDW13540129UC	1x2 (1310/1550nm) 40/60 Ratio
SDW13550229UC	2x2 (1310/1550nm) 50/50 Ratio
SDW1351X333333129C	1x3 (1310/1550nm) 33/33/33 Ratio

MULTIMODE COUPLERS/SPLITTERS (800-1600nm)

PART #	DESCRIPTION
250µm	
MMC28550122C	1x2 62.5/125µm Coupler 50/50 Ratio 250µm Fiber
MMC38550122C	1x2 50/125µm Coupler 50/50 Ratio 250µm Fiber
900µm	
MMC28550129C	1x2 62.5/125µm Coupler 50/50 Ratio 900µm Fiber
MMC28550229C	2x2 62.5/125µm Coupler 50/50 Ratio 900µm Fiber
MMC38550129C	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	
WDM13550122UC	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

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.*

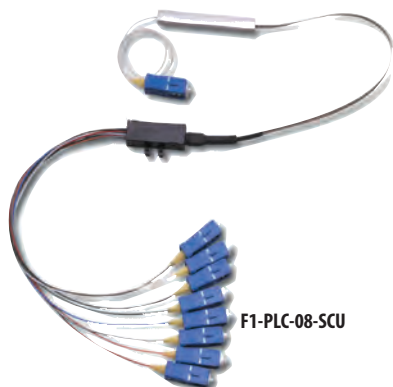
PART #	DESCRIPTION
RSC-3-S-2-50-YA-YA-2	Ruggedized Splitter, SM, 1 x 2, 50/50 split, SC/APC-SC/APC, 2mm jacketing
RSC-3-S-2-45-YA-YA-2	Ruggedized Splitter, SM, 1 x 2, 55/45 split, SC/APC-SC/APC, 2mm jacketing
RSC-3-S-2-40-YA-YA-2	Ruggedized Splitter, SM, 1 x 2, 60/40 split, SC/APC-SC/APC, 2mm jacketing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

PACKAGED NETWORK COUPLER

Housed and connectorized with your specified connector are 1X2 or 1X4 multimode or singlemode splitters. Also available in same packaging is singlemode 1310/1550nm Wave Division Multiplexer (WDM). Specify core/clad size, connector style, and split ratio. (Highest port count available is 1X4).

PART #	DESCRIPTION
PNC-3-S-2-50-YU-YU	Packaged Network Coupler Box, Singlemode, 50/50 split, 1x2 SC/UPC Adapters
PNC-3-S-2-10-YU-YU	Packaged Network Coupler Box, Singlemode, 90/10 split, 1x2, SC/UPC Adapters
PNC-3-S-4-EV-YU-YU	Packaged Network Coupler Box, Singlemode, Even split, 1x4, SC/UPC Adapters

Other Configurations Available - Call FIS Representative



F1-PLC-08-SCU



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



PNC-3-S-2-50-YU-YU

FIRECAT OTDR



FIBER INSTRUMENT SALES, INC.

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



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 850/1300nm
FIRECAT-1315	Dual Wavelength – Singlemode 1310/1550nm
FIRECAT-QUAD	Quad Wavelength – MM/SM 850/1300/1310/1550nm

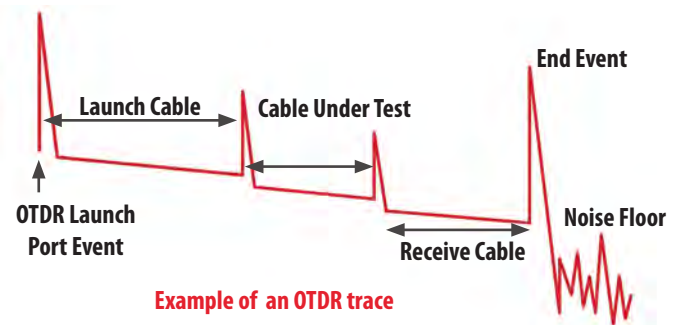
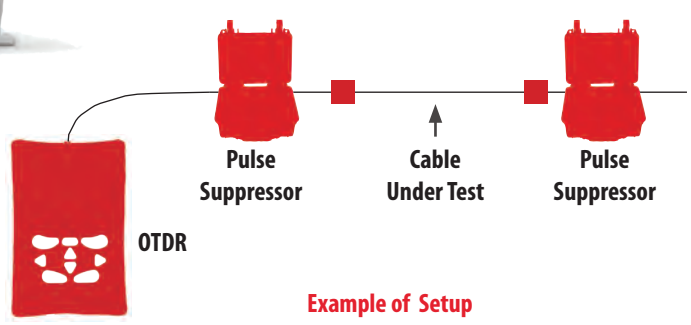
ACCESSORIES

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

NOTE: ADD "R" TO THE END OF THE PART NUMBER FOR RUGGEDIZED VERSION
 Add Additional \$100.00 to price (Example: FIRECAT – 850 – R = Single wavelength – Multimode 850 – Ruggedized)

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

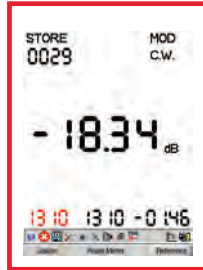
Using two (2) Pulse Suppressors, sometimes referred to as a launch and receive cable, allows a more accurate measurement of the cable link under test. It allows the pulse to settle down prior to the first connector on the cable link and lets the technician determine its insertion loss and back reflection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



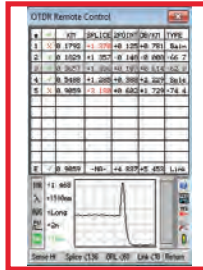
BOBCAT OTDR



The Hand Held Bobcat OTDR has a 32db dynamic range and a short dead zone for testing networks from FTtX up to the metro environment. It has an easy to read color display with fault finder, construction and expert/manual modes of operation. The OVP is shipped with software for generating complete and professional documentation with the ability to include scope images and loss test results. Take advantage of the Bluetooth feature that allows operation via a compatible Android device using the free Android App. This OTDR is the perfect tool for basic link troubleshooting and is affordable enough for every truck, office or tool kit.



Loss Test Set



Event Analysis Screen

FEATURES:

- Lowest Cost Color OTDR
- Free Android OTDR App
- 32 dB Dynamic Range
- Short Dead Zone
- Trace Comparison with Trace Overlay
- Interactive Event Table with Pass/Fail Feature
- Fault Finder/Construction/Expert Modes
- Bright Color Display
- Onboard Memory for 1000 Traces
- Onboard, Context Sensitive Help
- Rugged Enclosure with Protective Boot

Contact your FIS Sales Associate for a free OTDR Android™ app.



Each Unit Includes: Universal Power Adapter w/US, UK, Continental Europe and Australian plugs, interchangeable FC/ST/SC Adapters for each OTDR port, Windows®/Telcordia SR-4731 compatible Software, USB Cable, Manual and Rubber Boot.

PART #	DESCRIPTION
OVP-1310-DR	Single Wavelength - Singlemode 1310nm w/VFL and LTS - Android™ Compatible
OVP-8513-DR	Dual Wavelength - Multimode 850/1300nm w/VFL and LTS - Android™ Compatible
OVP-1315-DR	Dual Wavelength - Singlemode 1310/1550nm w/VFL and LTS - Android™ Compatible
OVPQUAD-DR	Quad Wavelength - MM/SM 850/1300/1310/1550 w/LTS - Android™ Compatible

ACCESSORIES

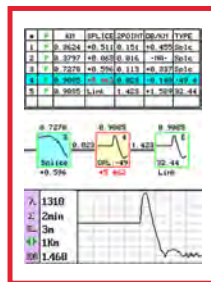
PART #	DESCRIPTION
F1-OVXHRDCSE	Hard Transit Case for OVP and OVX
OVP-BC	Auxiliary Charger Kit
OVX-ADAPTERSET	(1) SC, (1) ST, (1) FC Adapters for OVX & OVP Series



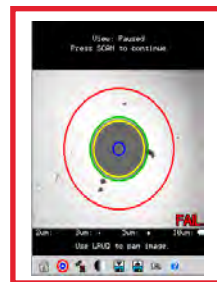
BOBCAT² OTDR



The Bobcat 2 is our newest high performance Optical Time Domain Reflectometer. The FIS OVR has touch screen capability, with 36dB dynamic range and project management database. It displays results in standard trace and event table views and displays networks in a schematic view. The FIS OVR includes video scope feature with probe and displayed measurement zones for connector end face grading according to IEC61300-3-35. The OVR supports Bluetooth operation via our free Android app which allows geotagging of traces and easy file sharing with e-mail. This OTDR also performs macro bend analysis and bidirectional analysis. Use the supplied Software package to view traces or product professional reports.



Event Analysis



Video Scope with IEC 61300-3-35

FEATURES:

- Touch Screen
- 36 dB Dynamic Range
- Schematic Event Analyzer
- Project Management Database
- Integrated Video Scope
- IEC61300-3-35 Pass/Fail Video Scope Grading
- Free Android OTDR App for Bluetooth Operation
- Dual Trace Capability for Macro Bend and Bidirectional Analysis
- Power Meter, CW Source Included (No PM on Quad OTDRs)
- VFL Available

PART #	DESCRIPTION
OVR-8513	850/1350nm OTDR with Video Scope/Probe and Loss Test Set
OVR-1315	1310/1550nm OTDR with Video Scope/Probe and Loss Test Set
OVR-QUAD	850/1300/1310/1550nm OTDR with Video Scope and Probe

ADVANCED OTDR



FIBER INSTRUMENT SALES, INC.

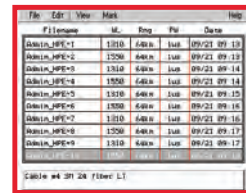
The FIS Advanced Hand Held OTDR has up to 39dB dynamic range with a 1 meter dead zone. It is Ideal for testing PON systems or links up to 240km. The unit has an integrated power meter, stable light source, video scope and a visual fault locator, making it a complete testing system, with an extremely intuitive operating system to keep learning curve as short as possible. This unit stores ~500 traces and 10,000 power meter measurements which can be downloaded to a USB flash drive or through a USB cable. It is shipped with Windows®/Telcordia SR-4731 compatible software that generates complete and professional reports with the ability to include scope images and loss test results. Models are available that include an active 1625nm port or up to four ITU standard CWDM wavelengths.

FEATURES

- No Boot Up Delay "Instant On"
- Up to 39dB Dynamic Range
- 1 Meter Dead Zone
- Interactive Event Table with Pass/Fail Feature
- Fault Finder/Construction/Expert Modes
- Bright Color Display
- Integrated Video Scope
- Onboard Memory for ~500 Traces
- Onboard, Context Sensitive Help
- Rugged Enclosure with Protective Boot
- SM, MM, Triple and Quad Units Available
- USB Flash Drive Port and Mini USB Port
- Long Battery Life



New Home Screen



New File Management Screen



Video Scope with IEC 61300-3-35



OVX-1315-LTS



Each Unit Includes: Universal Power Adapter with US, UK, Continental Europe and Australian plugs, Interchangeable FC/ST/SC Adapters for each OTDR and Power Meter Port, Windows®/Telcordia SR-4731 compatible Software, USB Cable, Manual and Rubber Boot.

PART #	DESCRIPTION
OVX-8513-LTSE	850/1300nm with VFL + Optical Loss Test Set
OVX-1315-LTSE	1310/1550nm with VFL + Optical Loss Test Set
OVX-1315-EXT	39dB 1310/1550nm OTDR with VFL + Optical Loss Test Set NEW
OVX-QUAD-LTSE	850/1300/1310/1550nm with VFL + Optical Loss Test Set
OVX-131516-ACTLTSE	1310/1550nm and Active 1625nm with VFL + Optical Loss Test Set
OVX-1315-8CA	1310/1550 OTDR with 8 Channel CWDM Analyzer, VFL and LTS
OVX147/149/151/153CWDM	CWDM OTDR and Light Source w/VFL and Broadband Power Meter
OVX155/157/159/161CWDM	CWDM OTDR and Light Source w/VFL and Broadband Power Meter

ACCESSORIES

PART #	DESCRIPTION
OVX-USB	500MB USB Flash Drive loaded with Trace Viewing Software
F1-VPMUSB	200x Probe (OVX Compatible)
F1-OVXHRDCASE	OVX OTDR Hard Case
OVXADAPTERSET	(1) SC, (1) ST, (1) FC Adapters for OVX & OVP Series
F1-OVXCASE	Soft Case w/Shoulder Strap

FIS HAND HELD OPTICAL SPECTRUM ANALYZER

The FIS Hand Held Optical Spectrum Analyzers offer full featured analysis of DWDM and CWDM systems in a truly portable package. This OSA has a super-fast acquisition time of two scans per second, and Pass/Fail feature with an easy to read color display. The OSA offers features such as Power Tilt for DWDM channel equalization and Gain Tilt to adjust EDFA gain flatness. The OSA will store up to 1,000 tests and is shipped with Windows® compatible software for fast and easy reporting.

FEATURES:

- Easy Operation with Help Mode
- 50 or 100 GHz DWDM and 20nm CWDM Channel Spacing
- Fast with two scans per second
- Over 80 Channels DWDM and 18 CWDM on the ITU Grid
- Bar Graph & Table Displays
- 4" Bright Color Display
- Real Time operation
- Rugged Case with Impact Resistant Boot
- 8hr Battery Life
- Video Scope capability

Each Unit Includes: Universal Power Adapter, Interchangeable FC/SC Adapters, Windows® Compatible Software, USB Cable, Manual and Rubber Boot.

PART #	DESCRIPTION
OSR-20	9 Channel CWDM Hand Held Optical Spectrum Analyzer 1310nm and 1471nm-1611nm NEW
OSR-80C	C Band Hand Held Optical Spectrum Analyzer with Touch Screen, 1531nm-1566.2nm NEW
OSX-80C	C-Band Optical Spectrum Analyzer
OSX-80L	L-Band Optical Spectrum Analyzer
OSX-20	CWDM Optical Channel Analyzer

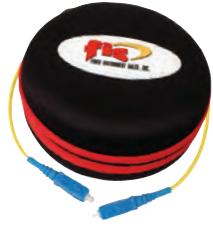


OSX-80C



STYLE #1

Dimensions: 5" Diameter
Fiber Capacity: 100 mtrs
(Pulse suppresser only)



STYLE #5

Dimensions: 22" x 17" x 8"
Fiber Capacity: 20 km
Test Box: 1 Event – 40 km, 2 Events – 42.5 km,
3 Events – 45 km

*Also available 22" x 17" x 12.7

STYLE #2

Dimensions: 5.5" x 7.5" x 1.5"
Fiber Capacity: 1,500 mtrs
Test Box: 1 Event – 500 mtrs, 2 Events – 500 mtrs, 3
Events – 500 mtrs



STYLE #7

Dimensions: 8" x 6" x 4"
Fiber Capacity: 1000 mtr
Test Box: 1 Event – 750 mtr, 2 Events – 600 mtr,
3 Events – 400 mtr

STYLE #3

Dimensions: 7.3" x 9" x 2.5"
Fiber Capacity: 2,500 mtrs
Test Box: 1 Event – 2,500 mtrs, 2 Events – 2,000 mtrs,
3 Events – 1,500 mtrs



STYLE #8

Dimensions: 4.25" L x 1.5" D
Fiber Capacity: 1000m
ClearCurve® ZBL only (G667.B2)

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



**RETRACTABLE LAUNCH CABLE
F1-CC29YUYU1000 STYLE #9**

Dimensions: 5" L x 6.75" W x 1.5" D
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!

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

Part # Example: PS-2-3-200-0-0-B-7A/YA

Translates to: Pulse Suppressor in 5.5"x7.5"x1.5" box w/200 meters of 9/125µm fiber with 1 FC/APC & 1 SC/APC Bulkhead Interface

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 up to 3 events, must specify distance between events	1= #1 2= #2 3= #3 4= #4 5= #5 6= #6 7= #7 8= #8 9= #9 Pigtails Only in boxes 1, 4, 5, 6, 7 & 8	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		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		B= Bulkhead P= Pigtails Pigtails Only in boxes 1, 4, 5, 6 & 7 R= Ruggedized Pigtails (Microduct)	7U= FC/UPC 7A= FC/APC 8 = ST/PC LU= LC/UPC LA= LC/APC MU= MU/UPC YU= SC/UPC YA= SC/APC 0= Other

FIS LAUNCH BOX PART NUMBER EXAMPLES X - Indicates Connector Choice

PART #	DESCRIPTION
PS-2-3-500-0-0-B-XX/XX	Launch Box Style #2, 500m 9/125µm SMF-28e+, w/ 2 Bulkhead Adapters of Choice
PS-3-3-1000-2-1000-B-XX/XX	Launch Box Style #3, 1000m 9/125µm Fiber and 1000m 62.5/125µm Fiber, Bulkhead Adapters of Choice
PS-4-3-1000-0-0-P-XX/XX	Launch Box Style #4, 1000m 9/125µm SMF-28e+, 2 meter Pigtails w/Connector of Choice
PS-7-3-500-0-0-P-XX/XX	Launch Box Style #7, 500m 9/125µm SMF-28e+, 2 meter Pigtails w/Connector of Choice
PS-7-1-100-0-0-P-XX/XX	Launch Box Style #7, 100m 50/125µm Fiber, 2 meter Pigtails w/Connector of Choice
PS-7-2-100-0-0-P-XX/XX	Launch Box Style #7, 100m 62.5/125µm Fiber, 2 meter Pigtails w/Connector of Choice
PS-1-1-100-0-0-P-YU/YU	Launch Disc, Style #1, 100m 50/125µm Fiber, 1.5m pigtails - SC/UPC connectors both ends
PS-1-2-100-0-0-P-YU/YU	Launch Disc, Style #1, 100m 62.5/125µm Fiber, 1.5m pigtails - SC/UPC connectors both ends
PS-1-3-100-0-0-P-YU/YU	Launch Disc, Style #1, 100m Singlemode SMF28e+, 1.5m pigtails - SC/UPC connectors both ends
PS-7-1-500-0-0-P-YU/YU	Launch Box, Style #7, 500m 50/125µm Fiber, 1.5m pigtails - SC/UPC connectors both ends
PS-7-2-500-0-0-P-YU/YU	Launch Box, Style #7, 500m 62.5/125µm Fiber, 1.5m pigtails - SC/UPC connectors both ends
PS-7-3-500-0-0-P-YU/YU	Launch Box, Style #7, 500m Singlemode SMF28e+, 1.5m pigtails - SC/UPC connectors both ends

*When ordering Test Boxes, please specify type and location of up to 3 events. Each additional event \$30.00



F1-8513HR



RUGGEDIZED POWER METER

FIS POWER METER

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.

FEATURES

- 2mm Germanium Photodiode
- 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 & 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
9080-0000	Ruggedized Power Meter with 2.5mm & 1.25mm Universal Adapter
9081-0000	FIS Test Set/Power Meter - 850/1300nm Light Source with ST Adapters and 2.5mm & 1.25mm PM Universal Adapter
9082-0000	FIS Test Set/Power Meter - 1310/1550nm Light Source with FC Adapters and 2.5mm & 1.25mm PM Universal Adapter
9083-0000	FIS Test Set/Power Meter - 1490/1550nm Light Source and Power Meter with FC Adapters and 2.5mm & 1.25mm PM Universal Adapter

Add "C" to part number for CATV version, (Singlemode Only) add \$30.00 • Add "V" to part number for VFL Option add \$190.00 • Add "T" to part number for TALK Option add \$250.00

POWER METER ACCESSORIES

PART #	DESCRIPTION
F1-8513Mm	2.5mm Universal Adapter (ST, FC, SC) (Polymer)
F1-8513SC	SC Adapter
F1-8513ST	ST Adapter
F1-8513FC	FC Adapter
F1-8513SMA	SMA Adapter
F1-8513MTP	MTP Adapter
F1-8513MTJ	MT-RJ Adapter
F1-8513LCMMm	1.25mm Universal Adapter (Polymer)
1018-0000	Rugged Carry Case (See picture of Test Set Kit below)
F1-9103U	Universal 110/220v Power Supply

FIS POWER METER & 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 & 1310/1550nm Light Sources (FC/SM, ST/MM Interface)
F1-1835LRVFL	Hand Held PM (0.01 Res), 850/1300nm & 1310/1550nm Light Sources and VFL
F1-1345LR	Hand Held PM (0.01 Res) 1310nm 1490nm, 1550nm Laser Light Source (FC Interface)
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)
F1-LRDLXCASE	Hard Case for 3 units (empty)



9050-0000



RUGGEDIZED LIGHT SOURCE

FIS LIGHT SOURCE

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.

FEATURES

- Single or Dual Light Sources
- Continuous Wave (CW) or 2kHz Modulation
- Auto Shut Off & Low Battery Indicator
- Optional AC Power Supply
- 30-Hour Typical Battery Life
- Fixed Adapter for Optimal Performance
- Built in Stand for Easy Viewing
- Ruggedized Units Available for Harsh Outdoor Environments

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

PART #	DESCRIPTION
9050-0000	850nm LED Light Source with ST Adapter
9051-0000	1300nm LED Light Source with ST Adapter
9052-0000	Dual 850/1300nm LED Light Source with ST Adapter
9053-0000	1310nm Laser Light Source with FC Adapter
9054-0000	1550nm Laser Light Source with FC 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 & FC)
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
F1-9103U	Universal 110/220v Power Supply



CE
F1-813LRVFL



CE OV3-PM



9061-1000 CE

FIS OV-3 TEST SET

Loss Test Sets contain both a power meter and a light source in a single unit and are used to perform bi-directional end-to-end loss measurements. The FIS OV-3 Test Set is available configured in a number of flexible models to meet the installation and maintenance requirements of all optical networks. Include the CATV, VFL and Talk options to any model for additional functionality. The OV-3 is available in a power meter only version with the same great features.

FEATURES

- High Resolution Power Meter Calibrated at 850/1310/1490/1550nm
- 2mm Germanium Detector
- Backlit Display
- Available as Power Meter Only or Test Set
- Single or Dual Wavelength Light Source
- Stores up to 255 Tests
- Li-Ion Rechargeable Battery
- CATV, VFL and Talk Options
- One-Year Warranty
- Carry Case

Each Unit Includes: 110v/220v AC Charger, PC Software, 2.5mm and 1.25mm Universal Adapters, Soft Carry Case, RS232 Data Cable, (3 mtr patch cable included with Units with Light Source Option).

PART #	DESCRIPTION
OV3-PM	Deluxe Power Meter with RS232
OV3-85	Test Set with 850nm Light Source
OV3-13	Test Set with 1300nm Light Source
OV3-8513	Test Set with 850/1300nm Light Source
OV3-31	Test Set with 1310nm Light Source
OV3-15	Test Set with 1550nm Light Source
OV3-1315	Test Set with 1310/1550nm Light Source
OV3-1415	Test Set with 1490/1550nm Light Source

Add "C" to part number for CATV version, (Singlemode Only) • Add "V" to part number for VFL Option

FIS FIBER OPTIC TALK SET

Fiber Instrument Sales' new full duplex Talk Set is a hands free unit designed for transmitting voice in both directions in a single fiber using two different wavelengths, 850/1300nm for the multimode unit and 1310/1550nm for singlemode. Includes adjustment for power and sensitivity. The built in VOX (sensitivity) circuit is meant to conserve battery power when the operator is not speaking. In addition to these features the unit also comes with a rechargeable 9V 540mAh battery and a charging port for in-unit charging. The Talk Set comes standard with ST 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.

Each Set Includes: (2) Units, (2) Headphones with Microphone, 9V Battery

PART #	DESCRIPTION
9061-1000	FIS Multimode Talk Set (pair) ST Adapter
9061-2000	FIS Multimode Talk Set (pair) FC Adapter
9062-1000	FIS Singlemode Talk Set (pair) FC Adapter
9062-2000	FIS Singlemode Talk Set (pair) ST Adapter



FIS DESKTOP 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, through 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.

Each Package comes with:

(1) Video Microscope, (1) 22" LCD monitor, (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-VS25	Universal 2.5mm Adapter
F1-VS12U	Universal 1.25mm Adapter
F1-VSAPC25	Universal 2.5mm APC Adapter
F1-VSLC	LC Simplex Adapter
F1-VSSMA	SMA Adapter



F1-9786 CE

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
F1-9786	Hand Held Universal Microscope (ST, FC & SC) 100x
F1-9786LC	LC Adapter for F1-9786



Best Value in the Industry

F1-MS200U CE

FIS MINI FIBER MICROSCOPE

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

Includes: Microscope, (2) AAA Batteries, 2.5mm adapter, 1.25mm adapter

PART #	DESCRIPTION
F1-MS200U	Compact 200x Microscope



F1-VS200U CE

FIS 200x & 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 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 & 2.5mm Universal Adapter
F1-VS400U	400x Microscope with a 1.25mm & 2.5mm Universal Adapter



F1-VS400U CE

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

- Large 5.6" TFT LCD display
- Angle-adjustable screen for optimal viewing
- Brightness and contrast dials
- Screen folds for easy portability

HANDHELD VIDEO INSPECTION PROBE

- Easy-focusing knob enables one hand operation
- Interchangeable Probe Tips for inspecting different connector styles
- USB module/software included for viewing and saving images on a PC

OTHER FEATURES

- Rechargeable Batteries provide over 4 hours continuous operation
- AC Power Adapter/Charger
- Aluminum Carry Case with Shoulder Strap
- 1 year limited warranty
- RoHS Compliant



PART #	DESCRIPTION
F1-VPKIT200	FIS Hand Held Video Monitor & 200X Microscope Probe
F1-VPUSB	200X Probe USB Adapter, Software (No Monitor)

FIS PROBE ADAPTER TIPS

PART #	DESCRIPTION	PART #	DESCRIPTION
F1-VP25	2.5mm Ferrule/PC Male/Patchcord Inspection Tip	F1-VPLC	LC/PC Bulkhead Inspection Tip
F1-VP25APC	2.5mm Ferrule/APC Male/Patchcord Inspection Tip	F1-VPLX5APC	LX.5/APC Bulkhead Inspection Tip
F1-VP125	1.25mm Ferrule/PC Male/Patchcord Inspection Tip	F1-VPLX5	LX.5/PC Bulkhead Inspection Tip
F1-VP125APC	1.25mm Ferrule/APC Male/Patchcord Inspection Tip	F1-VPLEMO	Lemo/PC Bulkhead Inspection Tip
F1-VPMPM	MPO/MTP Ferrule Male/Patchcord Inspection Tip	F1-VPMP0	MPO/MTP/PC Bulkhead Inspection Tip

FIS UNIVERSAL TESTING SLEEVE

Designed specifically for testing applications, the FIS Universal Testing Sleeve reduces labor time while testing fiber optic patchcords with standard 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

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 with 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)



INFRARED DETECTION CARD

The Infrared Detection Card enables you to easily and safely detect the presence of invisible infrared light, which is potentially harmful to the eyes. Simply point the fiber optic cable, connector or other light source at the card for a visual indication of whether or not infrared light is present. Optimized for wavelengths between 850 - 1310nm.

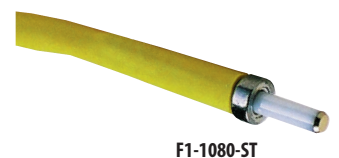
PART #	DESCRIPTION
F1-IDC	850 - 1310nm Infrared Card

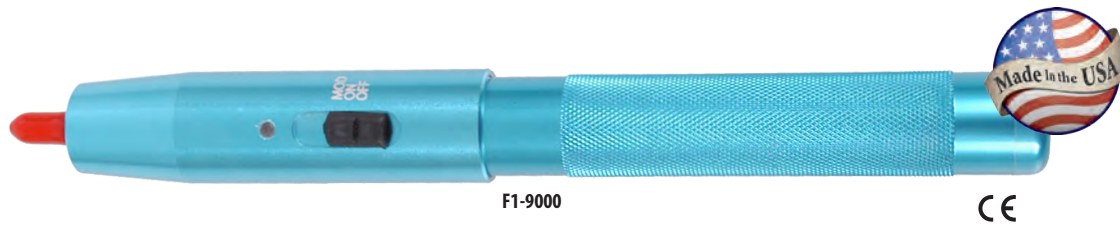


FIS GOLD TIPPED PIGTAIL

FIS gold tipped pigtailed are available for applications requiring a reference back reflection. Available in ST, FC, and SC style connectors. For singlemode applications the reflective quality of the gold provides high back reflection characteristics at 1310nm & 1550nm.

PART #	DESCRIPTION
F1-1080-ST	1 Meter ST/UPC Pigtail with Gold Tipped Ferrule
F1-1080-FC	1 Meter FC/UPC Pigtail with Gold Tipped Ferrule
F1-1080-SC	1 Meter SC/UPC Pigtail with Gold Tipped Ferrule
F1-1080-SCAPC	1 Meter SC/APC Pigtail with Gold Tipped Ferrule
F1-1080-FCAPC	1 Meter FC/APC Pigtail with Gold Tipped Ferrule





F1-9000

CE



F1-9000AD

FIS POCKET FAULT LOCATOR

Rugged and lightweight in aluminum housing, the FIS Pocket Fault Locator is equipped with a 650nm laser for fast and easy location of fault points in patchcords, patchpanels and enclosures. The unit can also be used to identify fibers in multi-fiber cables. The device weighs 4.5oz, is 7.1" in length, and can be used for both Singlemode and Multimode applications. Battery life is 30 hours in continuous mode and 40 hours in modulated mode.

Each Unit Includes: PFL, Lanyard, Protective Boots, (2) AA Batteries and Holster.

PART #	DESCRIPTION
F1-9000	Pocket Fault Locator - 2.5mm Universal Version - Blue
F1-9000125	Pocket Fault Locator - 1.25mm Universal Version - Blue
F1-9000AD	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, (2) AA Batteries, and Carry Case.

PART #	DESCRIPTION
OF-1000-UF	Visual Fault Locator with 2.5mm Universal Adapter (MM & SM)
OF-1000U-LC	Visual Fault Locator with LC Adapter (MM & SM)
OF-1000U-FCA	Visual Fault Locator with FC/APC Adapter (SM)
OF-1000U-SCA	Visual Fault Locator with SC/APC Adapter (SM)
OF-1000U-MTRJ	Visual Fault Locator with MT-RJ Adapter (MM & SM)



OF-1000-UF

CE



F1-5000SC

CE

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 & 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)

FIS CA3 Core Alignment Splicer

The New 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 (2) extended life batteries. Users have the option of operating the unit with integrated hard keys, or a new intuitive 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.

FEATURES

- Fast Splice Time – SM 7s Quick Mode / 18s Heat Time
- Removable fiber holders for easy fiber handling
- Rugged 4.3" Tempered Glass LCD Touch Screen
- Typical 130 Cycles (Splice & Heat) / single battery (2 Batteries Standard with Kit)
- Perfect for use with Splice-On Connectors with Metal SOC Holder



FIS CA3 Splicer Kit Includes: Splicer, Charger, Precision Cleaver, (2) Extended Life Batteries, Mini Cleaning Kit, Carry Case, Electrodes, Fiber Optic Stripper

PART #	DESCRIPTION
F1-CA3	CA-3 Core Alignment Splicer Kit with Precision Cleaver and (2) Batteries

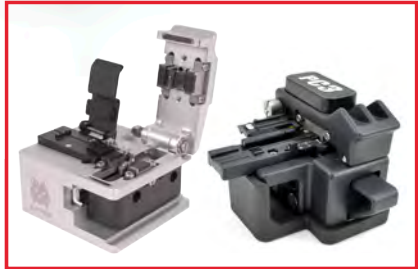
ACCESSORIES	
F1-CA3BAT	CA-3 Battery Module
F1-CA3PM	CA-3 Power Supply Module
F1-CA3PC	CA-3 Power Cord
F1-CA3ET	CA-3 Spare Electrodes



High Resolution LCD Touch Screen Monitor



Excellent Dust and Wind Protection



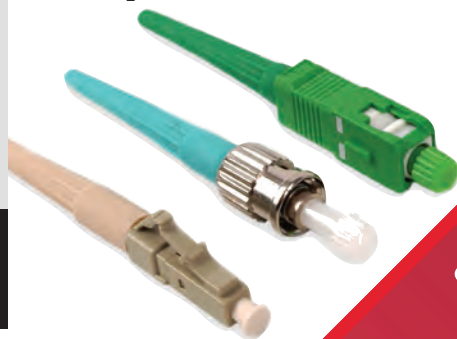
Kit includes choice of FIS Precision Cleavers

SPEED & SECURITY
with FIS' New Cheetah SOC Installer Certification & Extended Warranty!

<p>SOC Certification</p> <ul style="list-style-type: none"> • Review Splicer Fundamentals • Troubleshooting Installations • Proper Installation of the SOC 	<p>Extended Warranty</p> <ul style="list-style-type: none"> • 20 Year Coverage • Available Worldwide • Applicable to all Styles
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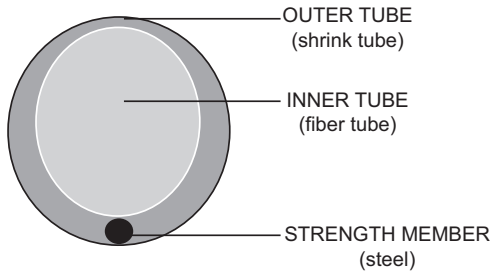
Contact your sales representative or visit www.fiberinstrumentsales.com for further details!

Compatible with
Cheetah™
 Splice-On Connector



See pages 40 & 41 for our full line of FIS Cheetah Splice-On Connectors!

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

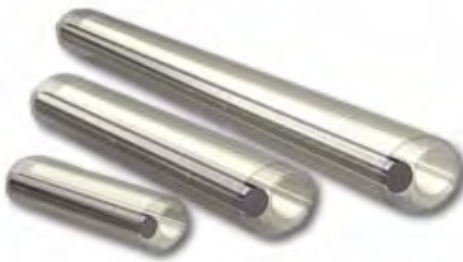
F1-1002C-50	60mm, 50 pk (Clear)
F1-100240C-50	40mm, 50 pk (Clear)
F1-1002RC-50	60mm, 50 pk (Red)

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

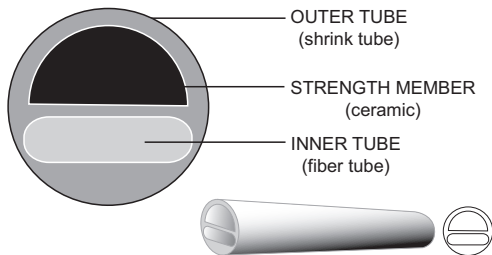
F1-1002T-50	60mm, 50 pk (Clear)
F1-100240T-50	40mm, 50 pk (Clear)

MICRO SLEEVE (1.5mm After Shrink) & Mini Sleeve (2.0mm After Shrink)

Designed to fit smaller areas for splice storage are 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	Dual Member 40mm, Clear
F1-10112CP	Single Member 40mm, 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	60mm, Clear
F1-DE40	40mm, Clear

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 splice is completed.

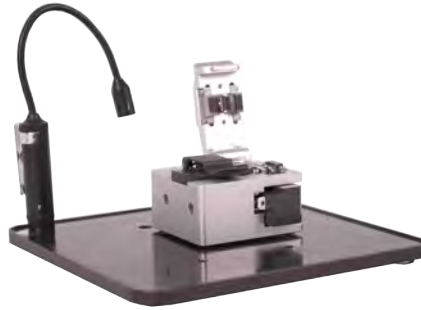
PART # DESCRIPTION

F1-FS40	40mm Splice Protection Sleeve
F1-FS60	60mm Splice Protection Sleeve

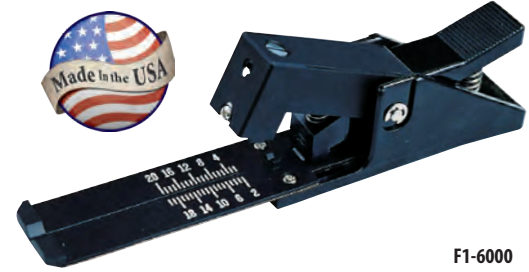




F1-LYNX



F1-LYNXWKS



F1-6000

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	LYNX Precision Cleaver
F1-LYNXWKS	LYNX Cleaver with Illuminated Workstation
F1-LYNXBLADE	LYNX Replacement Blade

FIS FIELD CLEAVER

Choose from these three cleavers, suitable for use with quick-term connectors and optimal for mechanical splicing. Each 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
F1-60CBL	FIS Replacement Blade (Carbide)
F1-60DBL	FIS Replacement Blade (Diamond)
S315X02	Replacement Leaf Spring

FIS PROTECTION SLEEVE OVEN

FIS's new splice protection sleeve oven is the perfect companion to any fusion splicer by allowing for the external shrinking of fiber protection sleeves. This extends the life of a fusion splicer's battery allowing for more splices in the field and improving the efficiency of the splice process. Low profile allows for easy placement of either 40mm or 60mm fusion splice sleeves while providing a stable base for a variety of applications.

PART #	DESCRIPTION
F1-9777	Rechargeable Standard Splice Sleeve oven, universal 110/220VAC



F1-9777

FIS FIBER OPTIC THERMAL STRIPPER - TS SERIES

This thermal stripper is a portable device for stripping coated optical fiber. This compact hand-held device enables the stripping process to be completed with just one hand.

PART #	DESCRIPTION
F1-TS900	FIS Fiber Optic Thermal Stripper (Removes 900µm coating)
F1-TS250RF	FIS Fiber Optic Thermal Stripper (Removes 400µm/250µm coating on 12-ribbon fiber)
F1-TS250	FIS Fiber Optic Thermal Stripper (Removes 250µm coating)



F1-TS900



US-128

ULTRASPLICE

The ULTRASplice® is a high performance, easy to install tunable and reusable mechanical splice. One splice accepts any combination of buffer sizes from 250µm-900µm. Average loss is less than .2dB with a fiber retention of over 2 lbs. Installation is simple: Cleave and insert the fibers, while checking fiber location in the glass capillary, secure by twisting a locking nut. US-126 is IBM #33G8228, US-128 is IBM #33G8227. Meets and exceeds Telcordia specifications. (Also available in specialty fiber sizes).

PART #	DESCRIPTION
US-126	Singlemode Universal ULTRASplice®
US-128	Multimode Universal ULTRASplice®



F1-MC125

LOCK JAW

These mechanical splices hold fiber with a self-gripping clamshell design. These unique splices also allow for the optional use of cyanoacrylate adhesive (e.g. Super Glue) to achieve a superior pull strength of 1.5 lbs. The splices fit into any mechanical splice style splice tray, accommodate 125µm clad fiber (singlemode or multimode) and have a typical loss of .2dB. The splices are also available in our new FIS Mechanical Splice Kit that includes 6 FIS Mechanical Splices, Jacket/Buffer Stripper, Field Cleaver, Adhesive, Optic Prep Wipes and Instructions.

Pull strength 1.5lbs with adhesive.

PART #	DESCRIPTION
F1-MC125	Splice for 125µm Clad Fiber SM or MM
F1-MC125SK	Splice Kit - (6) splices, cleaver, adhesive, cleaner & strip tool

ELASTOMERIC LAB SPLICE

The improved FIS Elastomeric Lab Splice is ideal for making temporary fiber connections and can be reused hundreds of times. To use 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



Improved Performance, Lower Price!



FANOUT & BREAKOUT KITS

FIS BUFFER TUBE/RIBBON FAN-OUT KITS

FIS Fan-Out Kits are designed for a simple and easy breakout from standard Buffer Tubes or Ribbon Cables. The kits are pre-configured 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. 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 COLOR CODED BREAKOUT KITS

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. Testing and installation time is also reduced. *Custom Colors Available.*

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
F1-BOK1240MA	2mm, 12 Fiber (40" Tubing) Accepts 900µm - Aqua
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 - NEW
F1-BOK1240M250	3mm 12 Fiber Colored Coded, Accepts 250µm - NEW

FIS UNIVERSAL BREAKOUT KITS

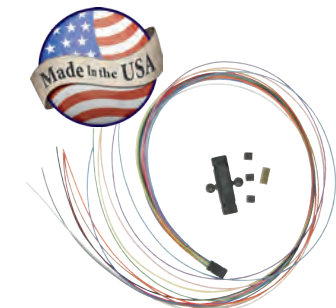
The ability to connectorize loose tube fiber requires the installation of a 3mm jacket over the 250µm coated fiber. The jacket, or furcation tube, contains an inner pull string for easy installation. This low-cost Universal Breakout Kit provides directions and materials to prepare cable ends for connectorization. Kit includes: 25 meters of 3mm furcation tubing, 2 sizes of black shrink tube (13mm and 26mm diameter), 2 gel remover packets, 2 two gram Hysol Epoxy packs, 8 pcs. adhesive shrink tube and 12 pcs. clear shrink tube.

PART #	DESCRIPTION
F1-5527	Orange Furcation Tube for Multimode
F1-5528	Yellow Furcation Tube for Singlemode

ROSIN BAG

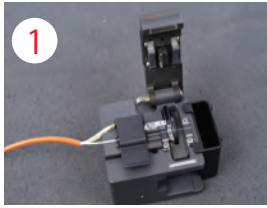
FIS technicians utilize rosin bags to ease the application of furcation tubing and help remove flooding gels while stripping. The rosin bags are used to dry wet surfaces making furcation quicker and easier. Rosin bags are available in 3 packs only.

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

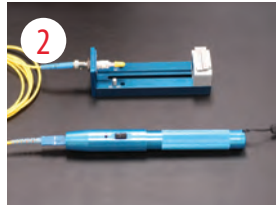


F1-9795-3

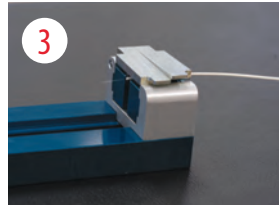
THE 2 MINUTE CONNECTION



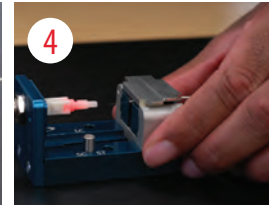
CLEAVE



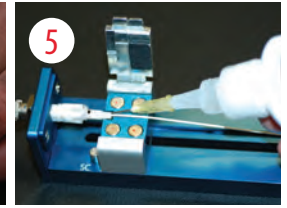
LOAD IN HOLDER



LOAD FIBER



SLIDE FIBER INTO CONNECTOR & MAKE CONNECTION



EPOXY FIBER INTO PLACE

FIS BOBTAIL™ NO-POLISH CONNECTOR

FIS Bobtail Connectors provide a pre-polished, quick termination style connector for an industry leading value. Bobtails 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

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

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

FIS UNIVERSAL SLIDING BOBTAIL HOLDER

The new and improved FIS assembly tool is now designed with a precision machined sled to aid in the insertion of the prepared field fiber. This feature virtually eliminates fiber stub breakage and minimizes insertion loss. Includes adapter plates for SC, LC, and ST Bobtail Connectors.

PART #	DESCRIPTION
F1-00SUNBTH	FIS Universal Sliding Bobtail Holder

FIS BOBTAIL™ MINI REPAIR KIT

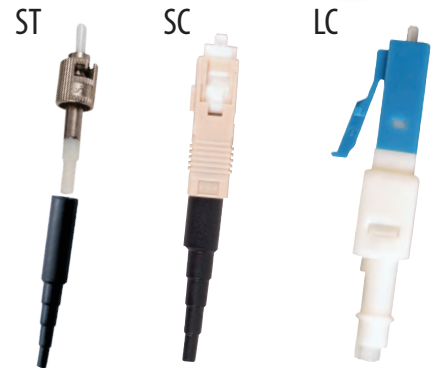
PART #	DESCRIPTION
F1-STBTMN-KIT	Mini ST 62.5 Kit w. Stripper, Cleaver, Adhesive & (2) ST Bobtails
F1-SCBTMN-KIT	Mini SC 62.5 Kit w. Stripper, Cleaver, Adhesive & (2) SC Bobtails
F1-LCBTMN-KIT	Mini LC 62.5 Kit w. Stripper, Cleaver, Adhesive & (2) LC Bobtails

DELUXE BOBTAIL™ INSTALLATION KIT

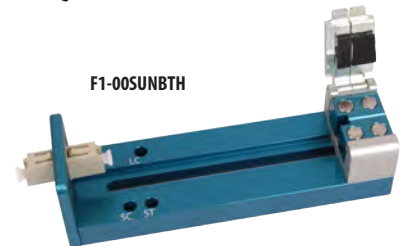
The Bobtail™ Installation Kit includes all the consumables and tools necessary for field termination of Bobtail™ connectors. When used in conjunction with the optional VFL it allows for active optimization of the connector before epoxy application.

QTY	DESCRIPTION	PART #
1	LYNX Cleaver	F1-LYNX
1	Universal Sliding Bobtail Holding Fixture	F1-00SUNBTH
1	Quickset Adhesive	F1-BTXY
1	Stripping Tool	F1-1301T
1	Dry Wipes	F1-6702
1	4oz. Bottle of Alcohol	F1-0007
1	Connector Cleaner	F1-7020C
6	Syringe Tips	F1-00-TIP
1	Pocket Fault Locator	F1-9000
3	Assorted SM and MM Patchcords	

PART #	DESCRIPTION
F1-00UNBTKITSMPLF	Universal Bobtail Kit for both SM & MM



F1-00SUNBTH



F1-STBTMN-KIT



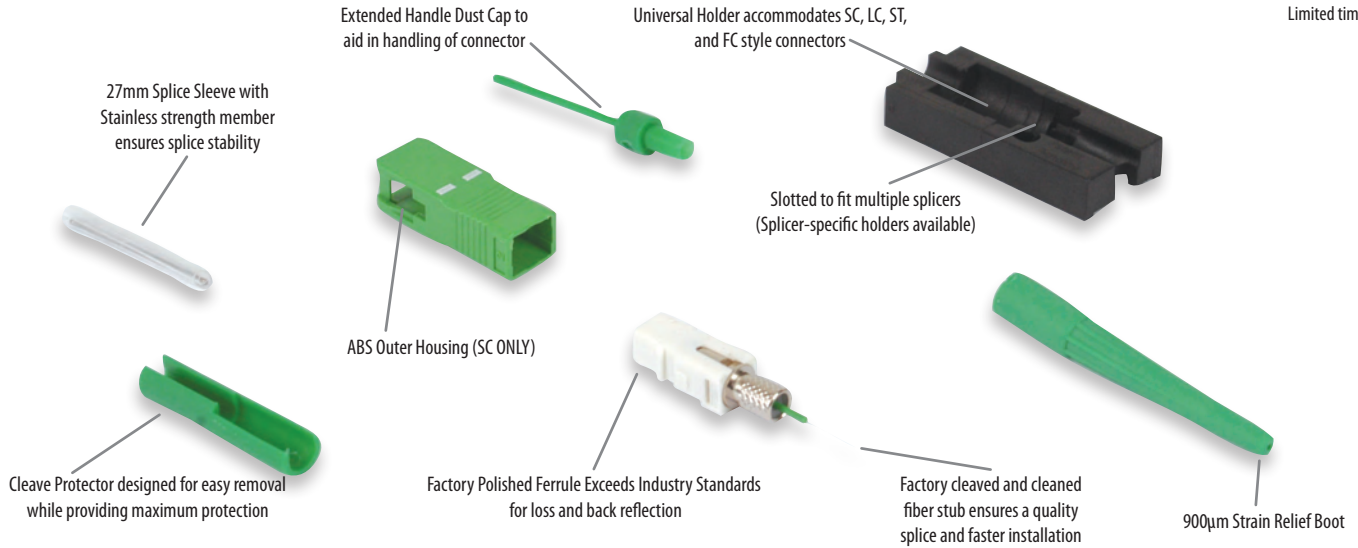
F1-00UNBTKITSMPLF

Cheetah™ Splice-On Connector

Terminations in Less than 3 Minutes!

**Free Fusion Splicer with
purchase of 2,500 Connectors
in any combination!**

Limited time offer



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 it allows for the SOC to be used within a variety of fiber optic 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, Blue 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-X	LC/PC 50µm Multimode (OM4), Magenta 900µm Boot
F1-LCOM4-SOCAQ-X	LC/PC 50µm Multimode (OM4), Aqua 900µm Boot
F1-SCAPC-SOC-X	SC/APC Singlemode, Green 900µm Boot
F1-SCUPC-SOC-X	SC/UPC Singlemode, Blue 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, Blue 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, Blue 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 12= 12packs, 100= 100packs.

900µm CHEETAH SOC™ ACCESSORIES

PART #	DESCRIPTION
F1-SOC-OVEN	Cheetah Splice-On Connector Sleeve Oven
F1-SOCHOLDER	SOC Universal Holder
F1-SOCMTL-FIS	FIS Metal SOC Holder for the FIS Super Cougar
F1-SOCMTL-AR	FIS Metal SOC Holder for AFL Splicers (11S, 60R12, 18R, 11R, 17S-FH, 50R, 17R)
F1-SOCMTL-A	FIS Metal SOC Holder for the AFL 60S and 18S Splicers
F1-SOCMTL-F	FIS Metal SOC Holder for the OFS Fitel Splicers (S122, S123C, S123M4, S123M8, S123M12, S178A, S153A)
F1-SOCMTL-S	FIS Metal SOC Holder for the Sumitomo Splicers (TYPE-39FH, TYPE-25, Quantum Q101-CA, TYPE-66, TYPE-65M24)
F1-FTL SHELF	FIS Utility/SOC Oven Shelf for Fitel Splicers (See page 49)
F1-AFL7SHELF	FIS Utility/SOC Oven Shelf for AFL Splicers

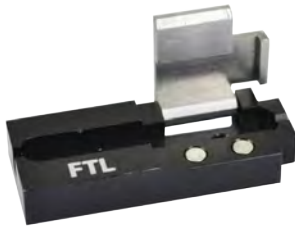




3mm FIS Cheetah SOC™



12-Pack FIS Cheetah SOC™



F1-SOC-30FTLHDLR

NEW 3mm CHEETAH SOC™

Using a factory-terminated and pre-polished connector, the 3.0mm Cheetah 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-deaved 900µm fiber stub to ensure ease of use and optimal performance.

The unique 3mm boot allows the entire splice to be concealed and protected, and provides a simpler cable management system within the rack or enclosure. The 3.0mm SOC is designed to work with the Fitel family of fusion splicers and the Fitel S325A Cleaver (cordage fiber holder required). The unique UV Cure Protection Sleeve can be cured in 30 seconds using the UV Cure Station.

- Splice-On solution for 3mm applications
- Splice protection encapsulated and protected by the strain relief boot
- Same ease of use as the 900µm SOC

Each 3.0mm Cheetah SOC™ Includes: Connector, Cleave Protector, Extended Dust Cap, 3.0mm Boot, and UV Splice Protection Sleeve

PART #	DESCRIPTION
F1-LCAPC-SOC-30-X	LC/APC Singlemode, Green 3.0mm Boot
F1-LCUPC-SOC-30-X	LC/UPC Singlemode, White 3.0mm Boot
F1-LC62-SOC-30-X	LC/PC 62.5µm Multimode (OM1), Beige 3.0mm Boot
F1-LC50-SOC-30-X	LC/PC 50µm Multimode (OM2), Black 3.0mm Boot
F1-LCOM3-SOC-30-X	LC/PC 50µm Multimode (OM3), Aqua 3.0mm Boot
F1-LCOM4-SOC-30-X	LC/PC 50µm Multimode (OM4), Magenta 3.0mm Boot
F1-LCOM4-SOCAQ-X	LC/PC 50µm Multimode (OM4), Aqua 3.0mm Boot
F1-SCAPC-SOC-30-X	SC/APC Singlemode, Green 3.0mm Boot
F1-SCUPC-SOC-30-X	SC/UPC Singlemode, White 3.0mm Boot
F1-SC62-SOC-30-X	SC/PC 62.5µm Multimode (OM1), Beige 3.0mm Boot
F1-SC50-SOC-30-X	SC/PC 50µm Multimode (OM2), Black 3.0mm Boot
F1-SCOM3-SOC-30-X	SC/PC 50µm Multimode (OM3), Aqua 3.0mm Boot
F1-SCOM4-SOC-30-X	SC/PC 50µm Multimode (OM4), Magenta 3.0mm Boot
F1-STUPC-SOC-30-X	ST/UPC Singlemode, White 3.0mm Boot
F1-ST62-SOC-30-X	ST/PC 62.5µm Multimode (OM1), Beige 3.0mm Boot
F1-ST50-SOC-30-X	ST/PC 50µm Multimode (OM2), Black 3.0mm Boot
F1-STOM3-SOC-30-X	ST/PC 50µm Multimode (OM3), Aqua 3.0mm Boot

*When ordering replace the "X" to specify 12= 12 packs, 100= 100 packs.



F1-NOA81



F1-9775

3.0mm CHEETAH SOC™ ACCESSORIES

PART #	DESCRIPTION
F1-9775	UV Cure Station
F1-NOA81	UV Adhesive 6cc Syringe
F1-SOC-30FTLHDLR	FIS 3.0mm SOC Cordage Holder for Fitel Splicers
F1-SOC-30AFLHDLR	FIS 3.0mm SOC Cordage Holder for AFL Splicers
F1-SOC-30CRIMPDIE	FIS Crimp Die for the 3.0mm SOC (Crimp Die Only)
F1-SOC-30CRIMPTOOL	FIS Crimp Tool (Die and Handle) for the 3.0mm SOC
F1-SOC-30STRIPCHART	3mm SOC Strip Chart

FIS KEYED LC CONNECTORS & ADAPTERS

- The solution to managing multiple networks with reduced risks
- Connectors and Adapters prevent improper connection of separate networks with common access points
- 2 color-coded, keyed designs to limit improper network connections
- Each connector/adaptor will mate only with same-color adapter/connector

F1-LC50SOCKYBL



F1-LCADPTKYBL



F1-LCADPTKYSL

F1-LC50SOCKYRD



F1-LCADPTKYRD



F1-LCADPTKYLL

F1-LC50SOCKYYL



F1-LCADPTKYLL

Manufacturer	Splicer Model	SOC Cordage Size Compatibility	Metal Holder Compatibility	Metal Holder Part Number	Universal Holder Compatibility
FIS	Super Cougar	900µm only	All Versions	F1SOCMTLFIS	All Versions
AFL/Fujikura	FSM-11(S/M)	900µm and 3.0mm	All Versions	F1SOCMTLAR	All Versions
	FSM-12S			F1SOCMTLA	
	FSM-17S		SC & LC Only		
	FSM-18S		SC, LC & ST Only		N/A
	FSM-19S				
	FSM-60(S/R)				
	FSM-70(S/R)				
Furukawa/Fitel	S122 (A/C/M)	900µm and 3.0mm	All Versions	F1SOCMTLF	All Versions
	S121 (A/M)				
	S123 (C/M)				
	S153				
	S178A				
Sumitomo	Type-25e (U/S/M)	900µm only	All Versions	F1SOCMTLS	All Versions
	Type-39FH				
	Type-46				
	Type-66				
	Quantum (Q101-CA)				
INNO	IFS 10	900µm only	All Versions	F1SOCMTLIFS10	N/A
	IFS 15				
Greenlee	910FS	900µm only	All Versions	GREENSOCHLDR	N/A


Duplex LC-10G

Simplex LC-10G

Simplex SC APC

Simplex SCUPC

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

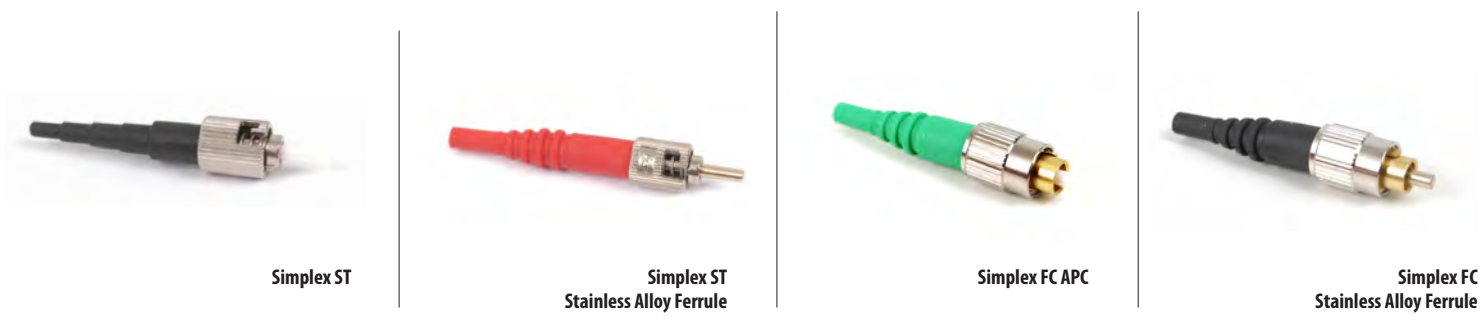
PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE
F1-5066	Simplex-MM	3.0mm	128µm	Zirconia
F1-5066AQ	Simplex-MM 10 Gig	3.0mm	126µm	Zirconia
F1-506616AQ	Simplex-MM 10 Gig	1.6-2.0mm	128µm	Zirconia
F1-506616	Simplex-MM	1.6-2.0mm	128µm	Zirconia
F1-5066900	Simplex-MM	900µm	128µm	Zirconia
F1-5069	Simplex-SM	3.0mm	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
F1-5066AR	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	FERRULE SIZE	FERRULE	BOOT SIZE
F1-3066	Multimode	127µm	Zirconia	3mm
F1-306620	Multimode	127µm	Zirconia	2mm
F1-3066900	Multimode	127µm	Zirconia	900µm
F1-3061	Multimode	127µm	Stainless Alloy	3mm
F1-3069	Singlemode	126µm	Zirconia	3mm
F1-306920	Singlemode	126µm	Zirconia	2mm
F1-3069900	Singlemode	126µm	Zirconia	900µm
F1-3069APC	Singlemode APC	126µm	Zirconia	3mm
F1-3069900APC	Singlemode APC	126µm	Zirconia	900µm
F1-3069APC20	Singlemode APC	126µm	Zirconia	2mm
F1-3066AR	Multimode (Anaerobic)	125µm	Zirconia	3mm
F1-3066AQ	Multimode 10 Gig	127µm	Zirconia	3.0mm
F1-3066AQ20	Multimode 10 Gig	127µm	Zirconia	1.6/ 2.0mm
F1-3066AQ900	Multimode 10 Gig	127µm	Zirconia	900µm
F1-CLBK	Duplex Clip (Black for Multimode)			
F1-CLBL	Duplex Clip (Blue for Singlemode)			



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

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

BULK CONNECTORS & ADAPTERS



F1-3069-100



F1-3800BC-100

FIS Multimode and Singlemode ST, SC, LC and FC connectors utilize a high quality 2.5mm zirconia ferrule. Bulk packaged in lots of 100 pieces, these connectors offer the best value in performance and cost savings. Provided with 3mm boots.

BULK CONNECTORS

PART #	DESCRIPTION
F1-0066-100	FIS MM ST Conn - (100 pk.)
F1-0069-100	FIS SM ST Conn - (100 pk.)
F1-5066-100	FIS MM LC Conn - (100 pk.)
F1-5069-100	FIS SM LC Conn - (100 pk.)
F1-2073-100	FIS MM FC Conn - (100 pk.)
F1-2070-100	FIS SM FC Conn - (100 pk.)
F1-3066-100	FIS MM SC Conn - (100 pk.)
F1-3069-100	FIS SM SC Conn - (100 pk.)
F1-3066AQ-100	FIS MM 10 Gig SC Conn- (100 pk.)
F1-5066AQ-100	FIS MM 10 Gig LC Conn- (100 pk.)

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.

BULK ADAPTERS

PART #	DESCRIPTION
F1-8102SS-100	FIS MM ST - (100 pk.)
F1-8200A-100	FIS SM ST - (100 pk.)
F1-8020-100	FIS MM LC Duplex - (100 pk.)
F1-8010-100	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.)

CUSTOM DRILLING SERVICES FROM FIS

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 900µm. ST and SMA style stainless alloy connectors can be drilled up to 1550µm. However we cannot drill to odd sizes or stainless steel ferrules.

There are many factors that can affect the performance of very small drill bits. Hole sizes below 250µm and above 900µm drilled in-house will be done on a "best effort" basis. However, we cannot guarantee the performance of these parts in your customer's application. FIS recommends that you first order a small sample batch of drilled parts to evaluate for your application.

Minimum Order Quantity – Ten connectors

250µm - 490µm Hole Sizes:

Hole Size Tolerance	+10µm / -4µm
Concentricity	15µm or less

500µm - 990µm Hole Sizes:

Hole Size Tolerance	+20µm / -5µm
Concentricity	20µm or less

1000µm - 1550µm Hole Sizes:

Hole Size Tolerance	+30µm / -10µm
Concentricity	25µm or less

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	

SMA 905 AND 906 CONNECTORS AND MATING SLEEVES

The SMA 905 and 906 Multimode connectors are available with stainless alloy. Ferrules and connectors are supplied with 3mm boots and may be custom drilled. When installing 906 SMA's into 905 SMA mating sleeves, a provided 1/2 sleeve must be installed on the 906 ferrule.

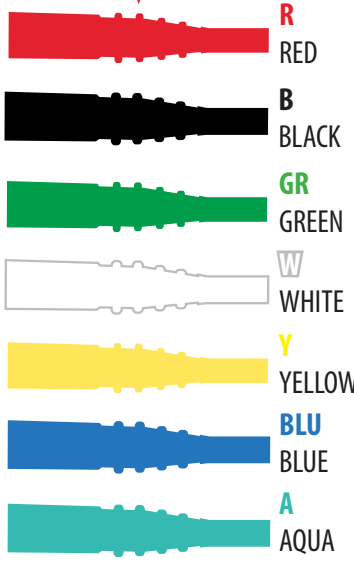
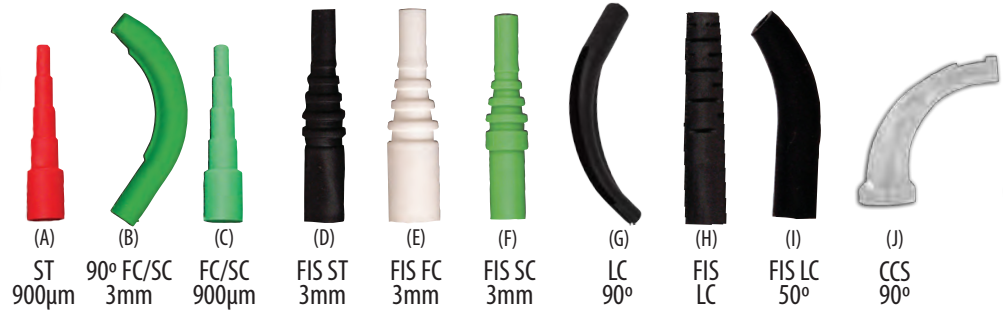


	PART #	TYPE	FIBER SIZE	FERRULE	TYPICAL LOSS
905	F1-93336	MM	127µm	Stainless Alloy	.25dB
	F1-93336140	MM	140µm	Stainless Alloy	.25dB
	F1-93336230	MM	230µm	Stainless Alloy	.25dB

	PART #	TYPE	FIBER SIZE	FERRULE	TYPICAL LOSS
906	F1-9333	MM	127µm	Stainless Alloy	.25dB
	F1-9333140	MM	140µm	Stainless Alloy	.25dB
	F1-9333230	MM	230µm	Stainless Alloy	.25dB
	F1-93330			FIS SMA Adapter for 905 and 906	

Quantity Discounts Available

- 1. Choose your style
- 2. Choose your color



STRAIN RELIEF BOOTS

Designed to be utilized on .128, .151, and .190 crimp sleeves. FIS boots are available in Red (R), Black (B), Green (GR), Blue (BLU), Aqua (A), White (W), and Yellow (Y). Replace X with abbreviation of color in parenthesis.

PART #	DESCRIPTION (See Strain Relief Boot style chart above)	ID	Length	Crimp Size
667342900-25-X	FIS ST 900µm Boot (A) (25 pk.)	0.15	1.13"	0.128
CONN90-25-X	FIS SC & FC 3mm 90° Boot (B) (25 pk.)	0.20	1.40"	0.190
CONN107900-25-X	FIS SC & FC 900µm Boot (C) (25 pk.)	0.17	1.13"	0.179
667342-BC-25-X	FIS ST 3mm Boot (D) (25 pk.)	0.15	1.47"	0.128
6673422-BC-25-X	FIS ST 2mm Boot (25 pk.)	0.15	1.47"	0.128
CONN107BC-25-X	FIS FC 3mm Boot (E) (25 pk.)	0.20	1.25"	0.190
CONN1072-BC-25-X	FIS FC 2mm Boot (25 pk.)	0.20	1.25"	0.190
CONN205-25-X	FIS SC 3mm Boot (F) (25 pk.)	0.20	1.47"	0.190
F1-LC 90-BLK-25	FIS LC 90° 2mm Boot Black (G) (25 pk.)	0.137	1.44"	0.128
LCB00TBL25	FIS LC 3mm Boot Black (H) (25 pk.)	0.137	1.10"	0.128
F1-LC45BL25	FIS LC 50° 2mm Boot Black (I) (25 pk.)	0.137	1.0"	0.128
F1-LC90M2590	FIS LC 90° 2mm Boot White (not shown) (25 pk.)	0.137	1.40"	0.128
F1-LC90GR25	FIS LC 90° 2mm Boot Green (not shown) (25 pk.)	0.137	1.40"	0.128
CONN205-XX-M20	FIS SC 2mm Boot (not shown) (25pk.)	0.20	1.47"	0.190

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

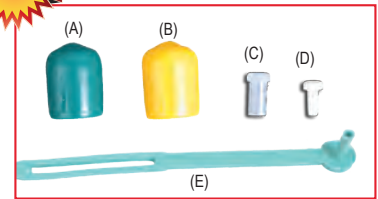


FERRULE PROTECTION CAPS

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.) NEW
F1-0125SB-100	Universal Dust Cap for 1.25mm Ferrules with jacket strap Black (100 pk.) NEW
F1-90010M	Universal Dust Cap for 2.5mm Ferrules with jacket strap (100 pk.)

NEW



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.)



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.

NOT AVAILABLE INDIVIDUALLY

PART #	DESCRIPTION	LENGTH
F1-TSMM127-25	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	125µm Stainless Alloy Ferrule (25 pk.)	12.7mm
F1-0063F-25	140µm Stainless Alloy Ferrule (25 pk.)	12.7mm
F1-0064F-25	230µm Stainless Alloy Ferrule (25 pk.)	12.7mm



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)

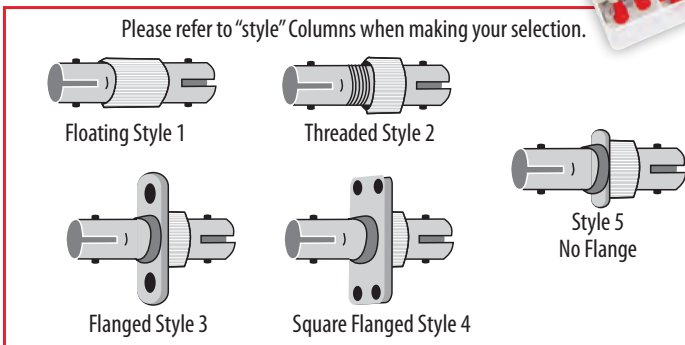
KIT CONTENTS (CONTAINS TWO OF EACH):

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



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.



No Flange Adapters

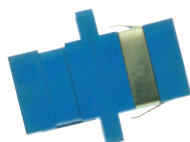
Now Available



F1-8620NF



F1-SCRD



F1-3810BC



F1-8350



F1-8045



F1-8018



F1-8050



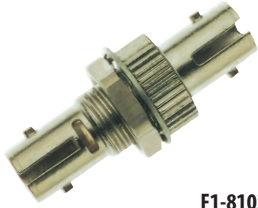
F1-8041

SC ADAPTERS

PART #	TYPE	STYLE	HOUSING	SLEEVE
F1-3800NF	Multimode - Beige (No Flange)	5	Polymer	Phos. Bronze
F1-8350NF	Multimode - 10 Gig - Aqua (No Flange)	5	Polymer	Zirconia
F1-3810NF	Singlemode - Blue (No Flange)	5	Polymer	Zirconia
F1-4800NF	Singlemode APC - Green (No Flange)	5	Polymer	Zirconia
F1-8600NF	Duplex Multimode - Beige (No Flange)	5	Polymer	Phos. Bronze
F1-8650NF	Duplex Multimode - 10 Gig - Aqua (No Flange)	5	Polymer	Zirconia
F1-8601NF	Duplex Singlemode - Blue (No Flange)	5	Polymer	Zirconia
F1-8701NF	Duplex Singlemode APC - Green (No Flange)	5	Polymer	Zirconia
F1-3800BC	Multimode - Beige	3	Polymer	Phos. Bronze
F1-8320	Multimode - Black	3	Polymer	Phos. Bronze
F1-8350	Multimode - 10 Gig - Aqua	3	Polymer	Phos. Bronze
F1-3810BC	Singlemode - Blue	3	Polymer	Zirconia
F1-4800BC	Singlemode APC - Green	3	Polymer	Zirconia
F1-8600ET	Duplex Multimode - Beige	3	Polymer	Phos. Bronze
F1-8620	Duplex Multimode - Black	3	Polymer	Phos. Bronze
F1-8650	Duplex Multimode - 10 Gig - Aqua	3	Polymer	Phos. Bronze
F1-8601	Duplex Singlemode - Blue	3	Polymer	Zirconia
F1-SCRD	Duplex Singlemode - Blue (No Flange)	5 with Shutter	Polymer	Zirconia
F1-8701	Duplex APC - Green	3	Polymer	Zirconia

LC ADAPTERS

PART #	TYPE	STYLE	HOUSING	SLEEVE
F1-8000A	Multimode - Beige	1	Polymer	Phos. Bronze
F1-8005	Singlemode - Blue	1	Polymer	Zirconia
F1-8008	Singlemode - APC - Green	1	Polymer	Zirconia
F1-8030	Duplex Multimode - Beige	SC Footprint	Polymer	Phos. Bronze
F1-8050	Duplex MM - 10 Gig - Aqua	SC Footprint	Polymer	Phos. Bronze
F1-8035	Duplex Singlemode - Blue	SC Footprint	Polymer	Zirconia
F1-8018	Duplex APC - Green	SC Footprint	Polymer	Zirconia
F1-LCAD02R	Duplex Singlemode - Blue	1 with Shutter	Polymer	Zirconia
F1-8040	Quad Multimode - Beige	SC Dup ftpt	Polymer	Phos. Bronze
F1-8041	Quad Multimode - 10 Gig - Aqua	SC Dup ftpt	Polymer	Phos. Bronze
F1-8045	Quad Singlemode - Blue (No Flange)	5 - SC Dup ftpt	Polymer	Zirconia
F1-8020NF	Duplex Multimode - Beige (No Flange)	5	Polymer	Phos. Bronze
F1-8050NF	Duplex Multimode - 10 Gig Aqua (No Flange)	5	Polymer	Zirconia
F1-8010NF	Duplex Singlemode - Blue (No Flange)	5	Polymer	Zirconia
F1-8015NF	Duplex Singlemode APC - Green (No Flange)	5	Polymer	Zirconia



F1-8102SS



F1-8501



106102-0000



F1-5915

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 (Not Shown)

PART #	DESCRIPTION
MTP-ADPT	MTP Adapter, Front Panel, Standard
MTP-9299	MTP Adapter, Screw Mount 30° angle
MTP-RFADPT	MTP Adapter, Reduced Flange, Standard

FC ADAPTERS

PART #	TYPE	STYLE	HOUSING	SLEEVE
FIS				
F1-8501	Multimode	4	Metal	Phos. Bronze
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

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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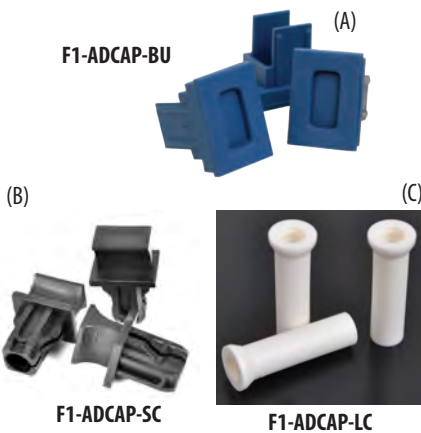
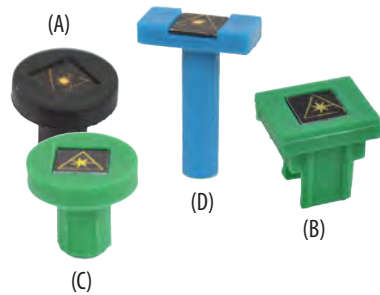
MATING SLEEVE ADAPTER CAPS

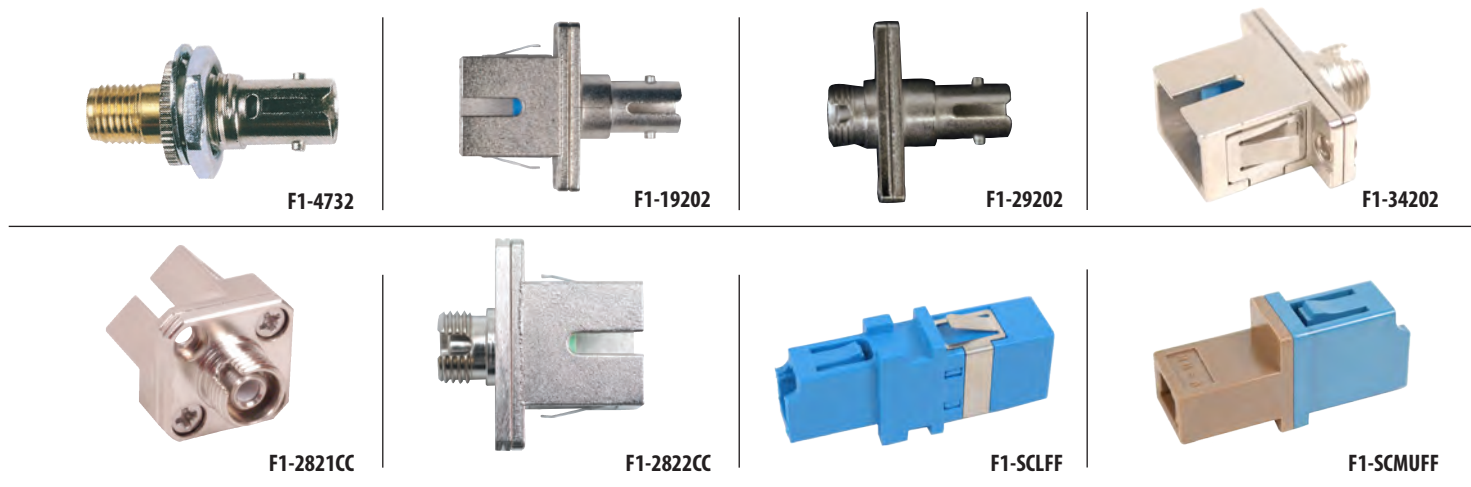
The dust caps for adapters are easy to misplace and now FIS makes them just as easy to replace. Available in multiple colors, see chart above. Replace XX with the color desired: BL=Black, BU=Blue, GR=Green, BE=Beige, AQ=Aqua.

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-STX-XX	ST Mating Sleeve Round Head with Laser Warning Sticker - 100pk (E)

METAL CAP & CHAINS

PART #	DESCRIPTION
F1-9229-LC	Cap and Chain for LC Mating Sleeves
F1-9229-LC	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





PART #	STYLE	HOUSING	SLEEVE
F1-4732	SMA 905 - ST	Metal	Zirconia
F1-19202	SC - ST	Metal	Zirconia
F1-29202	FC-ST	Metal	Zirconia
106172-0000	FC-ST	Metal	Zirconia
F1-34202	SC-FC	Metal	Zirconia
F1-2821CC	FC/APC - SC/APC	Metal	Zirconia
F1-2822CC	FC/APC - SC/APC	Metal	Zirconia
106143-0300	ESCON-ST	Polymer	Polymer
106133-0600	FDDI-ST	Polymer	Polymer
F1-SCLFF	SC-LC	Polymer	Zirconia
F1-LCMUFF	LC-MU	Polymer	Zirconia
F1-SCMUFF	SC-MU	Polymer	Zirconia

MALE – FEMALE ADAPTERS

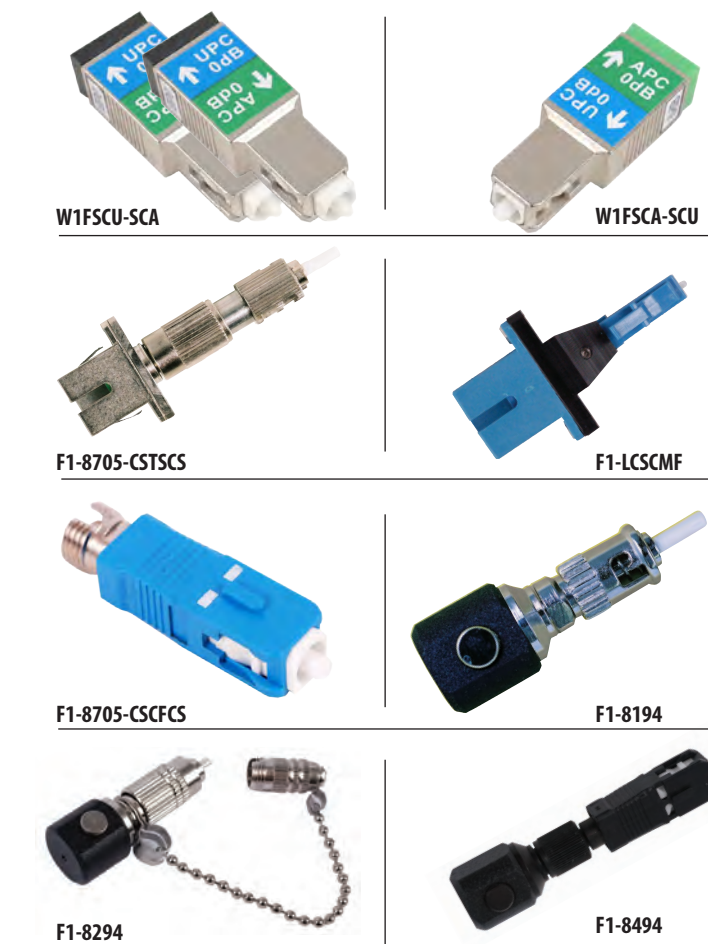
Note: When purchasing these adapters be aware of the fiber size indicated and match to your application.

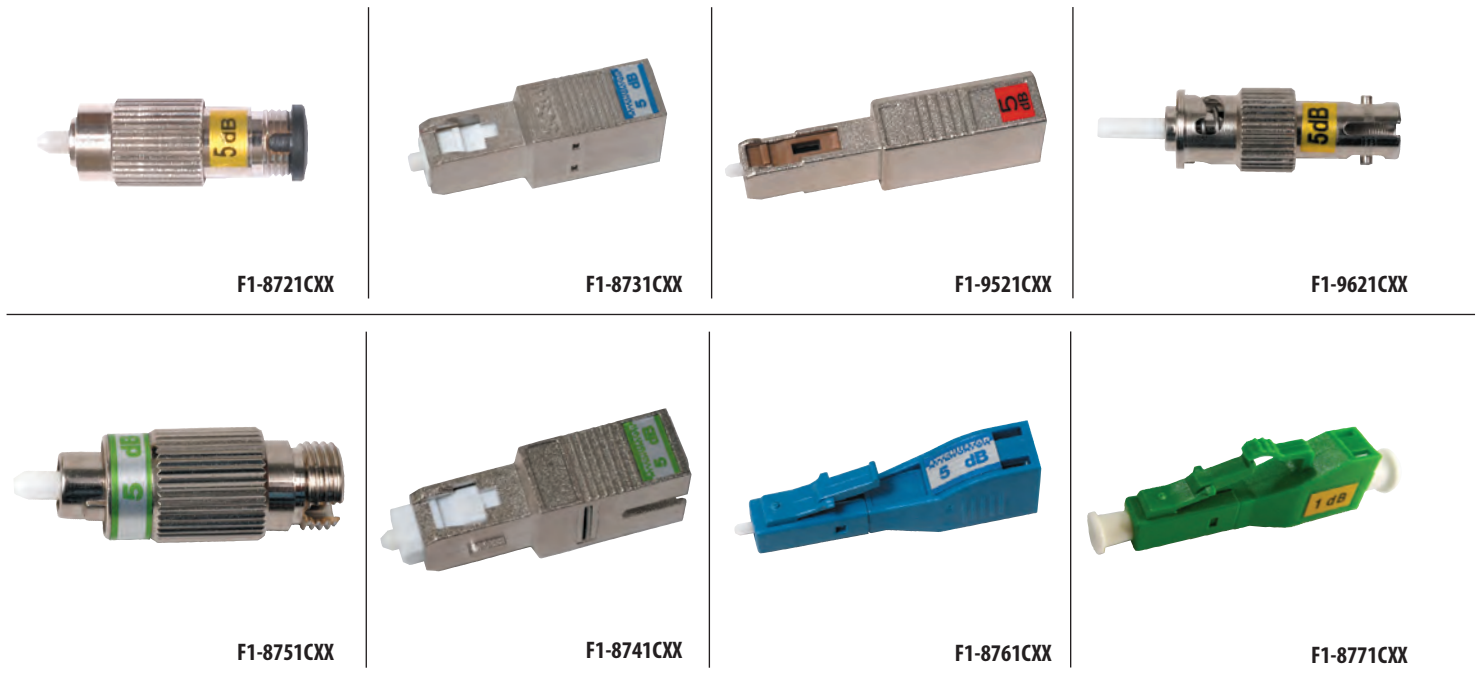
PART #	DESCRIPTION	HOUSING	SLEEVE
W1FSCA-SCU*	SC/APC Female to SC/UPC Male (Singlemode)	Metal	Zirconia
W1FSCU-SCA*	SC/UPC Female to SC/APC Male (Singlemode)	Metal	Zirconia
* Traditionally UPC and APC connectors have been incompatible to mate together due to the air-gap created between the two mating 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.			
F1-8705-FCFCS	FC-FC (Singlemode)	Metal	Zirconia
F1-8705-SCSC	SC-SC (62.5/125µm)	Polymer	Zirconia
F1-8705-SCSCS	SC-SC (Singlemode)	Polymer	Zirconia
F1-8705-STST	ST-ST (62.5/125µm)	Polymer	Zirconia
F1-8705-SMA	SMA-ST (62.5/125µm)	Polymer	Zirconia
F1-8705-CSCST	SC-ST (62.5/125µm)	Polymer	Zirconia
F1-8705-CFCSCS	FC-SC (Singlemode)	Polymer	Zirconia
F1-8705-CSTFCS	ST-FC (Singlemode)	Polymer	Zirconia
F1-8705-CSTSCS	ST-SC (Singlemode)	Polymer	Zirconia
F1-8705-CSCFCS	SC-FC (Singlemode)	Polymer	Zirconia
F1-8705-CSCSTS	SC-ST (Singlemode)	Polymer	Zirconia
*50µm and 62.5µm available!			
F1-SCLCMF	SC-LC (Singlemode)	Polymer	Zirconia
F1-LCSCMF	LC-SC (Singlemode)	Polymer	Zirconia
F1-FCLCMF	FC-LC (Singlemode)	Polymer	Zirconia

BUFFERED FIBER ADAPTERS

A Buffered Fiber Adapter (bare fiber adapter) enables you to make a quick, temporary connection to a cleaved bare 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)





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.

To specify attenuation level replace "xx" with desired attenuation level ex. 01=1Db, 02=2db etc. 03=3Db, 04=4db,etc.

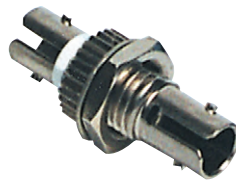
PART #	DESCRIPTION
F1-8721CXX	FC/UPC Male to Female Attenuator
F1-8751CXX	FC/APC Male Female Attenuator
F1-8731CXX	SC/UPC Male to Female Attenuator
F1-8741CXX	SC/APC Male Female Attenuator
F1-9621CXX	ST/UPC Male to Female Attenuator
F1-8761CXX	LC/UPC Male to Female Attenuator
F1-8771CXX	LC/APC Male to Female Attenuator
F1-9521CXX	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
F1-8121S	FIS 5dB ST Attenuator for 1310nm
F1-8122S	FIS 10dB ST Attenuator for 1310nm
F1-8123S	FIS 15dB ST Attenuator for 1310nm
F1-8124S	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

FC ATTENUATOR 1310nm

PART #	DESCRIPTION
F1-8221S	FIS 5dB FC Attenuator for 1310nm
F1-8222S	FIS 10dB FC Attenuator for 1310nm
F1-8223S	FIS 15dB FC Attenuator for 1310nm
F1-8224S	FIS 20dB FC Attenuator for 1310nm



FC ATTENUATOR 1550nm

PART #	DESCRIPTION
F1-8225S	FIS 5dB FC Attenuator for 1550nm
F1-8226S	FIS 10dB FC Attenuator for 1550nm
F1-8227S	FIS 15dB FC Attenuator for 1550nm
F1-8228S	FIS 20dB FC 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



F1-0045

FIS CLIP-ON VARIABLE ATTENUATOR

The Clip-On Variable Attenuator is a completely passive device, which works by physical attenuation of a 3mm jacketed Singlemode cable. May be used with smaller jacket sizes however, attenuation performance may vary. It can be attached at any point in a cable, providing attenuation levels from 0 to >47dB at 1550nm (0 to >21dB at 1310nm) and low back reflection. Good for hundreds of uses, and leaves no lasting effects on the cable. Dimensions: Length = 1-1/2", Diameter = 3/4".

PART #	DESCRIPTION
F1-0045	Clip-On Variable Attenuator

FIS 3-STEP ATTENUATORS

The FIS 3-Step Attenuator is a completely passive device and achieves attenuation by exceeding the recommended bend radius specifications of the fiber cable without introducing back-reflections. This unit is designed for 3mm jacket types and a wavelength of 1310nm, but can also be used with various jacket sizes and wavelengths with varying attenuation levels. Use any combination of the three loops to achieve desired attenuation levels.

PART #	DESCRIPTION
F1-10007	3-Step Attenuator 2-7dB (1310nm Singlemode)
F1-10015	3-Step Attenuator 5-15dB (1310nm Singlemode)
F1-10020	3-Step Attenuator 5-20dB (1310nm Singlemode)

FIS IN-LINE FIXED ATTENUATORS

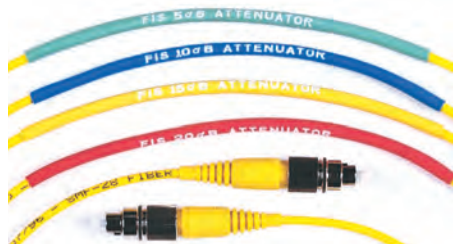
The FIS In-Line Fixed Attenuator is built to meet your low reflection attenuation requirements. Each cord is custom built to accommodate up to 10 meters of cable and the connector styles of your choice. The 5dB and 10dB versions hold a +/- .5dB tolerance with the 15dB and 20dB holding a 1dB tolerance. Please specify operating wavelength. The in-line attenuator provides negligible back reflection and is therefore recommended for use with UPC or APC style patch cable.

PART #	DESCRIPTION
F1-ATS + 5dB or 10dB	In-line Attenuator
F1-ATS + 15dB or 20dB	In-line Attenuator

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.

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



F1-0031-40C



F1-2250

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





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 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
F1-125POOL	Three Piece Spool - 1.75 Arobor Hole - 12"x9" x 6"
F1-145POOL	Three Piece Spool - 1.75 Arobor Hole - 14"x9" x 6"
F1-185POOL	Three Piece Spool - 1.75 Arobor Hole - 18"x 15.5" x 7.75"



**DID YOU KNOW?
10 GIG,
CLEARCURVE®
& BEYOND**

Fiber-to-the-Home and Desk (FTTx) applications have resulted in the creation of several new grades of Multimode fiber. The use of Gigabit and 10 Gig fibers can help future proof your network. New bend insensitive fibers are also becoming very popular. These fibers can be bent down to very small diameters without affecting the optical signal. FTTx applications use bend insensitive fiber because of its ease and flexibility of installation.

Gigabit Cables are designed with Corning® InfiniCor® ClearCurve® Laser-Optimized™ Optical Fiber, engineered specifically for laser-based local area network protocols such as Gigabit Ethernet. Singlemode fibers are Corning® SMF-28e+®, ClearCurve® ZBL and ClearCurve® XB optical fibers. FIS will also customize materials and constructions to meet your individual requirements.

What is OM1, OM2, OM3 & OM4 MULTIMODE CABLE?

FIBER TYPE	STANDARD DESIGNATION	JACKET COLOR (typical)	MAXIMUM ATTENUATION (dB/km)		TRANSMISSION DISTANCE FOR (in meters)		MINIMAL MODAL BANDWIDTH (MHz/km)	
			850nm	1300nm	1 Gb/s	10 Gb/s	OVERFILLED LAUNCH 850nm	OVERFILLED LAUNCH 1300nm
62.5/125	OM1	Orange	3.5	1.5	300	30	200	500
50/125	OM2	Orange	3.5	1.5	600	150	500	500
50/125	OM3	Aqua	3.5	1.5	1,000	300	1500	500
50/125	OM4	Aqua/Magenta	3.5	1.5	1,110	550	3500	500

Corning® ClearCurve®

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.

ClearCurve® Singlemode	Application	ITU-T	Radius	Corning Spec
ClearCurve® ZBL -Ultra low bend loss	<ul style="list-style-type: none"> • 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	<0.10 dB/turn
			7.5mm	
ClearCurve® XB -Enhanced bend capability	<ul style="list-style-type: none"> • Improved performance vs. standard Singlemode fiber • Appropriate for outside plant and some high-fiber count and tight buffer indoor applications • Enables a broader range of cable design options and deployment flexibility 	Exceeds G.657.A1	10mm	<0.50 dB/turn

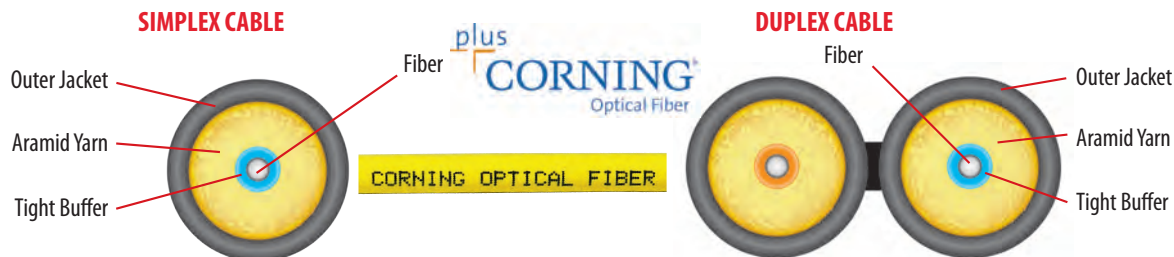


Made in the USA

By joining our Cable Assembly Partners you will be able to take advantage of incredible Cable and Polish Film Price Savings.



FIS supplies the industry's broadest array of Fiber Optic Cable and Tubing for all Access and Premises Network Applications. These include Standard and Customized Simplex, Duplex, Tight Buffer, Distribution, Loose Tube, Indoor/Outdoor and Ribbon Cable, as well as furcation tubing to fit the varied fanout applications.



Corning's new SMF-28® Ultra optical fiber is the first in the market to combine the benefit of industry-leading attenuation and improved macrobend performance in one fiber. This premium Singlemode fiber is designed for long-haul, metro, access, and fiber-to-the-home (FTTH) applications, and is fully backward compatible with the installed base of legacy Singlemode fibers.



Corning® SMF-28® Ultra Fiber

Compatibility Matters.

- MFD equivalence and 100% compatibility to G.652.D fiber allows for seamless integration into existing networks

Bend Matters.

The same improved bend performance of Corning® ClearCurve® XB fiber:

- 33% better bend than G.657.A1 standard
- Capacity robustness: NGPON, WDM PON

Simplicity Matters.

- One fiber everywhere to minimize inventory management complexity

Loss Matters.

The same industry leading low-loss of Corning® SMF-28e+® LL fiber:

- Capacity robustness: 100G, 400G, Next Gen PON
- Low-cost capacity: less equipment, longer reach
- Enhanced Fixed-Mobile broadband coverage
- Repair resilience



Four huge benefits.
One amazing fiber.
Ultra has arrived.

CORNING

9/125µm - OS2 SINGLEMODE

Corning® SMF-28® Ultra fiber

SIMPLEX CABLE

1.2mm PART #	DESCRIPTION	BUFFER SIZE
S09-SX01-CZNRP12	Plenum Yellow	
3.0mm		
S09-SX01-CZNR	Riser Yellow	900µm
S09-SX01-CZNR	Riser Red	900µm
S09-SX01-CZNPY	Plenum Yellow	900µm
S09-SX01-CZNRB	Riser Blue	900µm
2.0mm		
S09-SX01-CZNR20	Riser Yellow	900µm
S09-SX01-CZNPY20	Plenum Yellow	900µm
S09-SX01-CZNRB20	Riser Blue	900µm
1.6mm		
S09-SX01-CZNR16	Riser Yellow	650µm
S09-SX01-CZNPY16	Plenum Yellow	650µm
S09-SX01-CZNRB16	Riser Blue	650µm

DUPLEX CABLE

3.0mm PART #	DESCRIPTION	BUFFER SIZE
S09-DX02-CZNR	Riser Yellow	900µm
S09-DX02-CZNR	Riser Red	900µm
S09-DX02-CZNPY	Plenum Yellow	900µm
2E51-311-31	Riser Yellow	900µm
S09-DX02-CZNRB	Riser Blue	900µm
2.0mm		
S09-DX02-CZNR20	Riser Yellow	900µm
S09-DX02-CZNPY20	Plenum Yellow	900µm
S09-DX02-CZNRB20	Riser Blue	900µm
1.6mm		
S09-DX02-CZNR16	Riser Yellow	650µm
S09-DX02-CZNPY16	Plenum Yellow	650µm
S09-DX02-CZNRB16	Riser Blue	650µm

9/125µm - SINGLEMODE ULTRA LOW BEND OPTIMIZED

Corning® ClearCurve® ZBL fiber (5mm Radius) G657.B3

SIMPLEX CABLE

3.0mm PART #	DESCRIPTION	BUFFER SIZE
S09-SX01-CCNRB	Riser Blue	900µm
S09-SX01-CCNRY	Riser Yellow	900µm
1.6mm		
S09-SX01-CCNRB16	Riser Blue	650µm
S09-SX01-CCNRY16	Riser Yellow	650µm

DUPLEX CABLE

3.0mm PART #	DESCRIPTION	BUFFER SIZE
S09-DX02-CCNRB	Riser Blue	900µm
S09-DX02-CCNRY	Riser Yellow	900µm
1.6mm		
S09-DX02-CCNRB16	Riser Blue	650µm
S09-DX02-CCNRY16	Riser Yellow	650µm

62.5/125µm - OM1 MULTIMODE

InfiniCor® 300 fiber

SIMPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE
M62-SX01-C3NR0	Riser Orange	900µm
M62-SX01-C3NP0	Plenum Orange	900µm

2.0mm

M62-SX01-C3NR020	Riser Orange	900µm
M62-SX01-C3NP020	Plenum Orange	900µm

1.6mm

M62-SX01-C3NR016	Riser Orange	650µm
M62-SX01-C3NP016	Plenum Orange	650µm

DUPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE
M62-DX02-C3NR0	Riser Orange	900µm
M62-DX02-C3NP0	Plenum Orange	900µm
2K51-311-41	Riser Orange	900µm

2.0mm

M62-DX02-C3NR020	Riser Orange	900µm
M62-DX02-C3NP020	Plenum Orange	900µm

1.6mm

M62-DX02-C3NR016	Riser Orange	650µm
M62-DX02-C3NP016	Plenum Orange	650µm

50/125µm - OM2 MULTIMODE

Corning® ClearCurve® OM2 fiber

SIMPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE
M50-SX01-C2NR0	Riser Orange	900µm
M50-SX01-C2NP0	Plenum Orange	900µm

2.0mm

M50-SX01-C2NR020	Riser Orange	900µm
M50-SX01-C2NP020	Plenum Orange	900µm

1.6mm

M50-SX01-C2NR016	Riser Orange	650µm
M50-SX01-C2NP016	Plenum Orange	650µm

DUPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE
M50-DX02-C2NR0	Riser Orange	900µm
M50-DX02-C2NP0	Plenum Orange	900µm
002T51-311-3124	Plenum Orange	900µm

2.0mm

M50-DX02-C2NR020	Riser Orange	900µm
M50-DX02-C2NP020	Plenum Orange	900µm

1.6mm

M50-DX02-C2NR016	Riser Orange	650µm
M50-DX02-C2NP016	Plenum Orange	650µm

50/125µm - OM3 MULTIMODE - 10 Gig

Corning® ClearCurve® OM3 fiber

SIMPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE
M50-SX01-CGNRA	Riser Aqua	900µm
M50-SX01-CGNPA	Plenum Aqua	900µm

2.0mm

M50-SX01-CGNRA20	Riser Aqua	900µm
M50-SX01-CGNPA20	Plenum Aqua	900µm

1.6mm

M50-SX01-CGNRA16	Riser Aqua	650µm
M50-SX01-CGNPA16	Plenum Aqua	650µm

DUPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE
M50-DX02-CGNRA	Riser Aqua	900µm
M50-DX02-CGNPA	Plenum Aqua	900µm

2.0mm

M50-DX02-CGNRA20	Riser Aqua	900µm
M50-DX02-CGNPA20	Plenum Aqua	900µm

1.6mm

M50-DX02-CGNRA16	Riser Aqua	650µm
M50-DX02-CGNPA16	Plenum Aqua	650µm

50/125µm - OM4 MULTIMODE - 10 Gig

Corning® ClearCurve® OM4 fiber

SIMPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE
M50-SX01-C4NRA	Riser Aqua	900µm
M50-SX01-C4NPA	Plenum Aqua	900µm
M50-SX01-C4NRM	Riser Magenta	900µm
M50-SX01-C4NPM	Plenum Magenta	900µm

2.0mm

M50-SX01-C4NRA20	Riser Aqua	900µm
M50-SX01-C4NPA20	Plenum Aqua	900µm
M50-SX01-C4NRM20	Riser Magenta	900µm
M50-SX01-C4NPM20	Plenum Magenta	900µm

1.6mm

M50-SX01-C4NRA16	Riser Aqua	650µm
M50-SX01-C4NPA16	Plenum Aqua	650µm
M50-SX01-C4NRM16	Riser Magenta	650µm
M50-SX01-C4NPM16	Plenum Magenta	650µm

DUPLEX CABLE

3.0mm

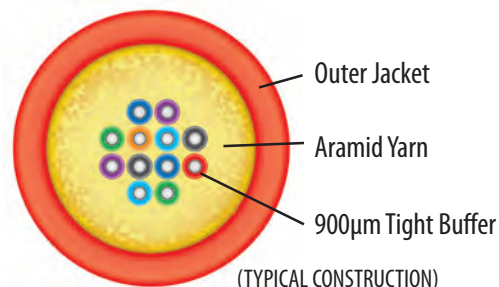
PART #	DESCRIPTION	BUFFER SIZE
M50-DX02-C4NRA	Riser Aqua	900µm
M50-DX02-C4NPA	Plenum Aqua	900µm
M50-DX02-C4NRM	Riser Magenta	900µm
M50-DX02-C4NPM	Plenum Magenta	900µm

2.0mm

M50-DX02-C4NRA20	Riser Aqua	900µm
M50-DX02-C4NPA20	Plenum Aqua	900µm
M50-DX02-C4NRM20	Riser Magenta	900µm
M50-DX02-C4NPM20	Plenum Magenta	900µm

1.6mm

M50-DX02-C4NRA16	Riser Aqua	650µm
M50-DX02-C4NPA16	Plenum Aqua	650µm
M50-DX02-C4NRM16	Riser Magenta	650µm
M50-DX02-C4NPM16	Plenum Magenta	650µm



DISTRIBUTION CABLE

Distribution Cable (compact building cable) packages individual 900µm buffered fiber, reducing size and cost when compared to breakout cable. The connectors may be installed directly on the 900µm buffered fiber at the breakout box location. The space saving (OFNR) rated cable may be installed wherever breakout cable is used.



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



PART #	FIBER COUNT	DESCRIPTION	PART #	FIBER COUNT	DESCRIPTION
S09-DI06-CZNR	6	Riser Yellow	S09-DI24-CZNPY	24	Plenum Yellow
S09-DI12-CZNR	12	Riser Yellow	M9W606	48	Riser Yellow
S09-DI12-CZNPY	12	Plenum Yellow	048R-816-113124	48	Riser Yellow
012R-813-313124	12	Riser Yellow	M9W609	72	Riser Yellow
S09-DI06-CZNPB	6	Plenum Blue	S09-DI12-CZNPB	12	Plenum Blue

62.5/125µm OM1 MULTIMODE

InfiniCor® 300 fiber

PART #	FIBER COUNT	DESCRIPTION	PART #	FIBER COUNT	DESCRIPTION
M62-DI04-C3NRO	4	Riser Orange	M62-DI12-C3NRO	12	Riser Orange
M62-DI04-C3NPO	4	Plenum Orange	M62-DI12-C3NPO	12	Plenum Orange
M62-DI06-C3NRO	6	Riser Orange	M62-DI24-C3NRO	24	Riser Orange
M62-DI06-C3NPO	6	Plenum Orange	M62-DI24-C3NPO	24	Plenum Orange

50/125µm - OM2 MULTIMODE

Corning® ClearCurve® OM2 fiber

PART #	FIBER COUNT	DESCRIPTION	PART #	FIBER COUNT	DESCRIPTION
M50-DI04-C2NRO	4	Riser Orange	M50-DI12-C2NRO	12	Riser Orange
M50-DI04-C2NPO	4	Plenum Orange	M50-DI12-C2NPO	12	Plenum Orange
M50-DI06-C2NRO	6	Riser Orange	M50-DI24-C2NRO	24	Riser Orange
M50-DI06-C2NPO	6	Plenum Orange	M50-DI24-C2NPO	24	Plenum Orange

50/125µm - OM3 MULTIMODE - 10 Gig

Corning® ClearCurve® OM3 fiber

PART #	FIBER COUNT	DESCRIPTION	PART #	FIBER COUNT	DESCRIPTION
M50-DI02-CGNRA	2	Riser Aqua	M50-DI06-CGNPA	6	Plenum Aqua
M50-DI02-CGNPA	2	Plenum Aqua	M50-DI12-CGNRA	12	Riser Aqua
M50-DI04-CGNRA	4	Riser Aqua	M50-DI12-CGNPA	12	Plenum Aqua
M50-DI04-CGNPA	4	Plenum Aqua	M50-DI24-CGNRA	24	Riser Aqua
M50-DI06-CGNRA	6	Riser Aqua	M50-DI24-CGNPA	24	Plenum Aqua

50/125µm - OM4 MULTIMODE - 10 Gig

Corning® ClearCurve® OM4 fiber

PART #	FIBER COUNT	DESCRIPTION	PART #	FIBER COUNT	DESCRIPTION
M50-DI06-C4NRA	6	Riser Aqua	M50-DI12-C4NRA	12	Riser Aqua
M50-DI06-C4NPA	6	Plenum Aqua	M50-DI12-C4NPA	12	Plenum Aqua
M50-DI06-C4NRM	6	Riser Magenta	M50-DI12-C4NRM	12	Riser Magenta
M50-DI06-C4NPM	6	Plenum Magenta	M50-DI12-C4NPM	12	Plenum Magenta

MICRO-DISTRIBUTION INDOOR CABLE

FIS is proud to offer their line of 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 and OM2 50µm Multimode or OM3 50µm Multimode and OM4 50µm Multimode. Numbered sub units available in 6 and 12 fiber counts.



9/125µm - OS2 SINGLEMODE

Corning® SMF-28® Ultra fiber

PART #	FIBER COUNT	DESCRIPTION
S09-MD12-CZNRV20	12	Riser Yellow
S09-MD12-CZNPY20	12	Plenum Yellow
*S09-MD24-CZNRV2T20-Y	24	Riser Yellow
*S09-MD24-CZNPY2T20-Y	24	Plenum Yellow
*S09-MD48-CZNRV4T20-Y	48	Riser Yellow
*S09-MD48-CZNPY4T20-Y	48	Plenum Yellow
*S09-MD72-CZNRV6T20-Y	72	Riser Yellow
*S09-MD72-CZNPY6T20-Y	72	Plenum Yellow

*Indicates all buffers are colored Yellow

50/125µm - OM3 MULTIMODE

Corning® ClearCurve® OM3 fiber

PART #	FIBER COUNT	DESCRIPTION
M50-MD12-CGNRA20	12	Riser Aqua
M50-MD12-CGNPA20	12	Plenum Aqua
*M50-MD24-CGNRA2TA20-A	24	Riser Aqua
*M50-MD24-CGNPA2TA20-A	24	Plenum Aqua
*M50-MD48-CGNRA4TA20-A	48	Riser Aqua
*M50-MD48-CGNPA4TA20-A	48	Plenum Aqua
*M50-MD72-CGNRA6TA20-A	72	Riser Aqua
*M50-MD72-CGNPA6TA20-A	72	Plenum Aqua

50/125µm - OM4 MULTIMODE

Corning® ClearCurve® OM4 fiber

PART #	FIBER COUNT	DESCRIPTION
M50-MD12-C4NRA20	12	Riser Aqua
M50-MD12-C4NPA20	12	Aqua Plenum
*M50-MD24-C4NRA2TA20-A	24	Riser Aqua
*M50-MD24-C4NPA2TA20-A	24	Aqua Plenum
*M50-MD48-C4NRA4TA20-A	48	Riser Aqua
*M50-MD48-C4NPA4TA20-A	48	Aqua Plenum

*Indicates all buffers are colored Aqua



ARMORED MICRO DISTRIBUTION CABLE (3mm Subunits)

PART #	FIBER COUNT	DESCRIPTION
M50-MD12-CGNPA-AIA	12	Plenum Aqua Armored - OM3
M50-MD24-CGNPA2TA-AIA	24	Plenum Aqua Armored - OM3
M50-MD48-CGNPA4TA-AIA	48	Plenum Aqua Armored - OM3
M50-MD12-C4NPA-AIA	12	Plenum Aqua Armored - OM4
M50-MD24-C4NPA2TA-AIA	24	Plenum Aqua Armored - OM4
M50-MD48-C4NPA4TA-AIA	48	Plenum Aqua Armored - OM4



Interlocking Indoor/Outdoor Armored Cable



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-CZNRBL	6	Riser SM 9/125µm - OS2
S09-I012-CZNRBL	12	Riser SM 9/125µm - OS2
S09-I024-CZNRBL	24	Riser SM 9/125µm - OS2
S09-I006-CZNPBL	6	Plenum SM 9/125µm - OS2
S09-I012-CZNPBL	12	Plenum SM 9/125µm - OS2

MULTIMODE 50/125µm Corning® ClearCurve® OM3 fiber		
M50-I002-CGNRBL	2	Riser 50/125 10 Gig MM - OM3
M50-I004-CGNRBL	4	Riser 50/125 10 Gig MM - OM3
M50-I006-CGNRBL	6	Riser 50/125 10 Gig MM - OM3
M50-I012-CGNRBL	12	Riser 50/125 10 Gig MM - OM3
M50-I024-CGNRBL	24	Riser 50/125 10 Gig MM - OM3
M50-I006-CGNPBL	6	Plenum 50/125 10 Gig MM - OM3
M50-I012-CGNPBL	12	Plenum 50/125 10 Gig MM - OM3
M50-I024-CGNPBL	24	Plenum 50/125 10 Gig MM - OM3

MULTIMODE 50/125µm Corning® ClearCurve® OM4 fiber		
M50-I006-C4NRBL	6	Riser 50/125 10 Gig MM - OM4
M50-I006-C4NPBL	6	Plenum 50/125 10 Gig MM - OM4
M50-I012-C4NRBL	12	Riser 50/125 10 Gig MM - OM4
M50-I012-C4NPBL	12	Plenum 50/125 10 Gig MM - OM4

PART #	FIBER COUNT	DESCRIPTION
MULTIMODE 62.5/125µm InfiniCor® 300 fiber		
M62-I002-C3NRBL	2	Riser MM 62.5/125µm - OM1
M62-I004-C3NRBL	4	Riser MM 62.5/125µm - OM1
M62-I006-C3NRBL	6	Riser MM 62.5/125µm - OM1
M62-I012-C3NRBL	12	Riser MM 62.5/125µm - OM1
M62-I024-C3NRBL	24	Riser MM 62.5/125µm - OM1
M62-I002-C3NPBL	2	Plenum MM 62.5/125µm - OM1
M62-I004-C3NPBL	4	Plenum MM 62.5/125µm - OM1
M62-I006-C3NPBL	6	Plenum MM 62.5/125µm - OM1
M62-I012-C3NPBL	12	Plenum MM 62.5/125µm - OM1
M62-I024-C3NPBL	24	Plenum MM 62.5/125µm - OM1
MULTIMODE 50/125µm Corning® ClearCurve® OM2 fiber		
M50-I002-C2NRBL	2	Riser 50/125µm MM - OM2
M50-I006-C2NRBL	6	Riser 50/125µm MM - OM2
M50-I012-C2NRBL	12	Riser 50/125µm MM - OM2

INTERLOCKING INDOOR/OUTDOOR ARMORED CABLE		
S09-I006-CZNPBL-AIA	6	Plenum SM 9/125µm Armored - OS2
S09-I012-CZNPBL-AIA	12	Plenum SM 9/125µm Armored - OS2
M62-I006-C3NPBL-AIA	6	Plenum MM 62.5/125µm Armored - OM1
M62-I012-C3NPBL-AIA	12	Plenum MM 62.5/125µm Armored - OM1
M50-I006-CGNPBL-AIA	6	Plenum MM 50/125µm 10 Gig Armored - OM3
M50-I012-CGNPBL-AIA	12	Plenum MM 50/125µm 10 Gig Armored - OM3
M50-I024-CGNPBL-AIA	24	Plenum MM 50/125µm 10 Gig Armored - OM3

ALUMINUM INTERLOCKING ARMORED DISTRIBUTION CABLE

Tight Buffered Aluminum Interlocking Armored Cable consists of PVC overall jacket, PVC inner jacket with 2 to 24 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-CZNPY-AIA	6	SM 9/125µm - Yellow Plenum - OS2	16mm
S09-DI12-CZNPY-AIA	12	SM 9/125µm - Yellow Plenum - OS2	16mm
S09-D124-CZNPY-AIA	24	SM 9/125µm - Yellow Plenum - OS2	17.4mm
S09-D148-CZNPY-AIA	48	SM 9/125µm - Yellow Plenum - OS2	23.50mm
M62-DI06-C3NPO-AIA	6	MM 62.5/125µm - Orange Plenum - OM1	16mm
M62-DI12-C3NPO-AIA	12	MM 62.5/125µm - Orange Plenum - OM1	17.4mm
M50-DI06-CGNPA-AIA	6	MM 50/125µm - Aqua Plenum - OM3	16mm
M50-DI12-CGNPA-AIA	12	MM 50/125µm - Aqua Plenum - OM3	16mm
M50-DI24-CGNPA-AIA	24	MM 50/125µm - Aqua Plenum - OM3	17.4mm

TACTICAL CABLE

Fiber Optic Tactical Cable consists of a rugged, flexible polyurethane outer jacket and either two or four 900µm tight-buffered fibers surrounded by aramid yarn and an aramid ripcord. The jacket is pressure extruded over the strength member which allows the pulling device to be attached directly to the cable's outer jacket. This will transfer the pulling force directly to the strength members with no slippage.

PART #	FIBER COUNT	DESCRIPTION
FB-SM-TACCABLE-6	6	SM 9/125µm Tactical Cable - OS2
FB-SM-TACCABLE-12	12	SM 9/125µm Tactical Cable - OS2
FB-MM-TACCABLE-6	6	MM 62.5/125µm Tactical Cable - OM1
FB-MM-TACCABLE-12	12	MM 62.5/125µm Tactical Cable - OM1
FB-50-TACCABLE-6	6	MM 50/125µm Tactical Cable - OM3
FB-50-TACCABLE-12	12	MM 50/125µm Tactical Cable - OM3

INDOOR/OUTDOOR BREAKOUT CABLE

Breakout cable consists of 2mm subunits with 900mm tight buffers. Combining strength, flexibility and no need for fan-out kits or tubing when terminating, these rugged cables are ideal for indoor and indoor/outdoor applications. Offering Breakout cables from 2-12 fiber constructions with Plenum and Riser ratings.

PART #	FIBER COUNT	DESCRIPTION
S09-BK06CZNPY-20-Y	6	SM 9/125µm - OS2
S09-BK12CZNPY-20-Y	12	SM 9/125µm - OS2
M62-BK06C3NPO-20-0	6	MM 62.5/125µm - OM1
M62-BK12C3NPO-20-0	12	MM 62.5/125µm - OM1

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 72 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.

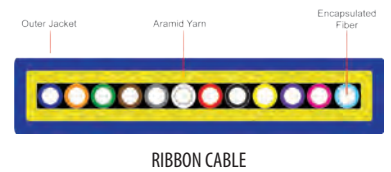
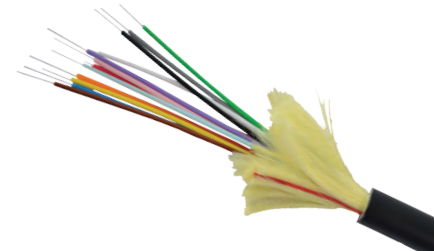
PART #	FIBER COUNT	DESCRIPTION
S09-DL06-CZNRBL	6	SM 9/125µm Riser PVC Black - OS2
S09-DL12-CZNRBL	12	SM 9/125µm Riser PVC Black - OS2
S09-DL24-CZNRBL	24	SM 9/125µm Riser PVC Black - OS2
S09-DL48-CZNRBL	48	SM 9/125µm Riser PVC Black - OS2
S09-DL72-CZNRBL	72	SM 9/125µm Riser PVC Black - OS2
M62-DL-06-C3NRBL	6	MM 62.5µm Riser PVC Black - OM1
M62-DL-12-C3NRBL	12	MM 62.5µm Riser PVC Black - OM1
M50-DL06-CGNRBL	6	MM 50/125µm Riser PVC Black - OM3
M50-DL12-CGNRBL	12	MM 50/125µm Riser PVC Black - OM3

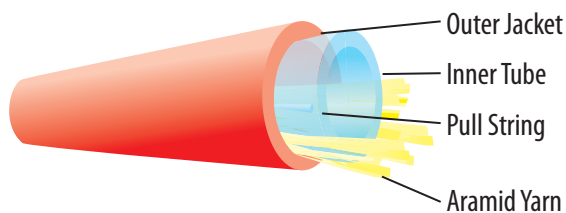
FLAT RIBBON - Bare 245µm

PART #	DESCRIPTION
S09-RB012-C	12 Fiber Singlemode 9/125µm Bare 245µm - OS2
M62-RB012-C	12 Fiber Multimode 62.5/125µm Bare 245µm - OM1
M50-RB12-CG	12 Fiber Multimode 50/125µm ClearCurve® Bare 245µm - OM3

FLAT RIBBON CABLE

PART #	DESCRIPTION
S09-RB012-CNRY	12 Fiber Singlemode 9/125µm Riser Yellow - OS2
M62-RB12-C3NRO	12 Fiber Multimode 62.5/125µm Riser Jacketed Orange - OM1
M62-RB12-C3NPO	12 Fiber Multimode 62.5/125µm Plenum Jacketed Orange - OM1
M50-RB12-C2NRO	12 Fiber Multimode 50/125µm Riser Jacketed Orange - OM2
M50-RB12-CGNRA	12 Fiber Multimode 50/125µm Corning® ClearCurve® OM3 Riser Jacket Aqua
M50-RB12-CGNPA	12 Fiber Multimode 50/125µm Corning® ClearCurve® OM3 Plenum Jacket Aqua

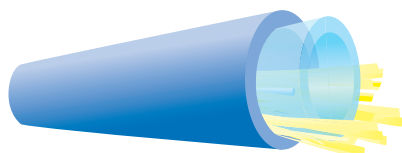




KEY FEATURES INCLUDE:

- Designed to terminate to a wide range of connector styles.
- Accommodates bare or tight buffered fibers.
- Provides durable fiber protection and emulates standard simplex and duplex cable.
- Consists of an inner tube surrounded by aramid fibers and a PVC jacket.
- 12 standard colors for easy identification.
- ONLY 3.0mm has a pull string

OTHER COLORS AVAILABLE



900µm FURCATION TUBE

This 900µm furcation tube accepts 250µm diameter coated fiber. Standard material is Hytel and other colors are available.

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

2.0mm FURCATION TUBE

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

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

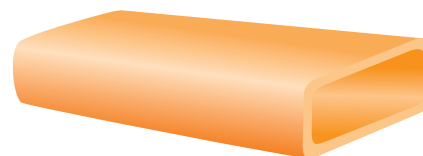
3.0mm FURCATION TUBE

Our 3.0mm furcation tube has an inner hollow tube with a **pull string** and will receive a 250µm buffered fiber.

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.

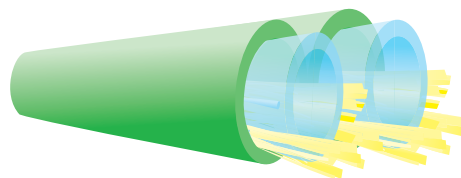
PART #	DESCRIPTION
F00-FR3NUO-900	Orange (Accepts 250µm)
F00-FR3NUY-900	Yellow (Accepts 250µm)
F00-FR3NUA-900	Aqua (Accepts 250µm)
F00-FR3-NUO	Orange (Accepts 900µm)
F00-FR3-NUY	Yellow (Accepts 900µm)
F00-FR3-NUR	Red (Accepts 900µm)
F00-FR3-NUB	Blue (Accepts 900µm)
F00-FR3-NUG	Green (Accepts 900µm)
F00-FR3-NUA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



RIBBON FURCATION TUBE

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



DUPLEX FURCATION TUBE

2.0mm and 3.0mm duplex furcation tubing consists of an inner tube surrounded by aramid fibers, and a PVC jacket sized for the industry standard connectors. The duplex design allows for professional termination of connector pairs.

2.0mm	
PART #	DESCRIPTION
F00-FDX2-NUO	Orange (Accepts 250µm)
F00-FDX2-NUY	Yellow (Accepts 250µm)
F00-FDX2-NUA	Aqua (Accepts 250µm)
3.0mm	
F00-FDX3-NUO	Orange (Accepts 900µm)
F00-FDX3-NUY	Yellow (Accepts 900µm)
F00-FDX3-NUG	Green (Accepts 900µm)
F00-FDX3-NUA	Aqua (Accepts 900µm)

TECH TIP:

Rosin is useful when working with loose tube fiber. When furcating this type of fiber, you must first remove the loose tube buffers and use solvents to clean off the cable filling grease or "Ickypic" that surrounds the fibers. Applying rosin to the exposed and cleaned fibers will remove stickiness caused by any unremoved Ickypic. This will help prevent your cable from getting stuck and breaking fibers as you pull it through a cable run.

MAX LENGTHS CHART

*Lengths are in meters

SPPOOL DIMENSIONS:

(Flange x Traverse x Drum)

18" – 18 x 15 x 8	42" – 42 x 24 x 18
24" – 24 x 15 x 16.5	48" – 48 x 24 x 24
30" – 30 x 24 x 18	



CABLE	SPPOOL SIZES			
	18"	24"	30"	42"
Distribution				
2 FIBER (RISER/PLENUM)	X	1800	6477	X
2 FIBER (RISER/PLENUM)	X	1500	5216	X
6 FIBER (RISER/PLENUM)	X	1235	4291	X
8 FIBER (RISER/PLENUM)	X	1033	3592	X
12 FIBER (RISER/PLENUM)	X	878	3050	X
24 FIBER (RISER/PLENUM)	X	509	1787	X
48 FIBER (RISER)	X	X	430	734
48 FIBER (PLENUM)	X	X	430	633
72 FIBER (RISER)	X	X	X	580
72 FIBER (PLENUM)	X	X	X	520

Micro-Distribution	SPPOOL SIZES			
	18"	24"	30"	42"
12 FIBER (RISER/PLENUM)	X	3900	12695	X
24 FIBER (RISER)	X	540	1872	3315
24 FIBER (PLENUM)	X	540	1872	2766
48 FIBER (RISER)	X	479	1667	2600
48 FIBER (PLENUM)	X	479	1667	2400
72 FIBER (RISER)	X	X	1152	1900
72 FIBER (PLENUM)	X	X	1152	1600
96 FIBER (RISER)	X	X	748	1400
96 FIBER (PLENUM)	X	X	748	1200

Simplex	SPPOOL SIZES			
	18"	24"	30"	42"
SIMPLEX 1.6MM	5000	X	X	X
SIMPLEX 2MM	5000	X	X	X
SIMPLEX 3MM	4000	X	X	X

Duplex	SPPOOL SIZES			
	18"	24"	30"	42"
DUPLEX 1.6MM	3500	X	X	X
DUPLEX 2MM	3500	X	X	X
DUPLEX 3MM	2000	X	X	X

Breakout	SPPOOL SIZES			
	18"	24"	30"	42"
2 FIBER (RISER)	X	500	1574	3200
2 FIBER (PLENUM)	X	500	1574	2900
4 FIBER (RISER)	X	453	1574	3000
4 FIBER (PLENUM)	X	453	1574	2700
6 FIBER (RISER)	X	453	1574	2400
6 FIBER (PLENUM)	X	453	1574	2200
8 FIBER (RISER)	X	385	1338	2000
8 FIBER (PLENUM)	X	385	1338	1700
12 FIBER (RISER)	X	316	1098	1700
12 FIBER (PLENUM)	X	316	1098	1500

Ribbon Cable	SPPOOL SIZES			
	18"	24"	30"	42"
4 FIBER	5734	6809	X	X
6 FIBER	5734	6809	X	X
8 FIBER	5734	6809	X	X
12 FIBER	5734	6809	X	X

CABLE	SPPOOL SIZES			
	18"	24"	30"	42"
Dry Loose Tube (I/O)				
6 FIBER (RISER)	X	951	2650	2650
6 FIBER (PLENUM)	X	951	2400	2400
12 FIBER (RISER)	X	951	2650	2650
12 FIBER (PLENUM)	X	951	2400	2400
24 FIBER (RISER)	X	394	1271	2650
24 FIBER (PLENUM)	X	582	1878	2400
48 FIBER (RISER)	X	394	1271	2650
48 FIBER (PLENUM)	X	394	1271	2400
72 FIBER (RISER)	X	253	879	1750
72 FIBER (PLENUM)	X	X	879	1600
72 FIBER (PLENUM)	X	X	879	1600

Dry Loose Tube (PE-OSP)	SPPOOL SIZES			
	18"	24"	30"	42"
6 FIBER	X	X	879	2300
12 FIBER	X	X	879	2300
24 FIBER	X	X	879	2300
36 FIBER	X	X	879	2300
48 FIBER	X	270	879	2300
72 FIBER	X	270	879	2300

Armored Products (Armor Only)	SPPOOL SIZES			
	18"	24"	30"	42"
2 AND 4 FIBER DISTRIBUTION AND I/O				3208
6 AND 12 FIBER DISTRIBUTION AND I/O				2320
24 FIBER DISTRIBUTION AND I/O				1940
48 FIBER DISTRIBUTION AND I/O				811
2-12 FIBER DRY LOOSE TUBE (OFNR/OFNP)				2320
24-48 FIBER DRY LOOSE TUBE (OFNR)				1502
72 FIBER DRY LOOSE TUBE (OFNR)				1196
24-36 FIBER DRY LOOSE TUBE (OFNP)				1940
48 FIBER DRY LOOSE TUBE (OFNP)				1502
72 FIBER DRY LOOSE TUBE (OFNP)				1196
2-12 FIBER MICRO-DISTRIBUTION (OFNR/OFNP)				3208
24-48 FIBER MICRO-DISTRIBUTION (OFNR/OFNP)				1940
72 FIBER MICRO-DISTRIBUTION (OFNR/OFNP)				1502

Armored Products (AIA-Jacketed)	SPPOOL SIZES			
	18"	24"	30"	42"
2 AND 4 FIBER DISTRIBUTION AND I/O				2156
6 AND 12 FIBER DISTRIBUTION AND I/O				1674
24 FIBER DISTRIBUTION AND I/O				1375
48 FIBER DISTRIBUTION AND I/O				657
2-12 FIBER DRY LOOSE TUBE (OFNR/OFNP)				1647
24-48 FIBER DRY LOOSE TUBE (OFNR)				1135
72 FIBER DRY LOOSE TUBE (OFNR)				930
24-36 FIBER DRY LOOSE TUBE (OFNP)				1375
48 FIBER DRY LOOSE TUBE (OFNP)				1135
72 FIBER DRY LOOSE TUBE (OFNP)				1025
2-12 FIBER MICRO-DISTRIBUTION (OFNR/OFNP)				2080
24-48 FIBER MICRO-DISTRIBUTION (OFNR/OFNP)				1375
72 FIBER MICRO-DISTRIBUTION (OFNR/OFNP)				1135



F1-8328C

F1-8326

F1-8327

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 snap 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)



F1-6709

FIS FIBER OPTIC CLEANING PEN

Use this cleaning pen to apply solution to cleaning wipe for removal of contaminants from optical fiber. Cleaner can be used with swabs to clean adapters, too.

PART #	DESCRIPTION
F1-6709	FIS Fiber Optic Cleaning Pen



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. The 0.004" (110µm) diameter wire is also used in connectorization process to apply epoxy to protruding fiber at ferrule. Sticky colored tabs provided to hold wire.

PART #	DESCRIPTION
F1-8265	FIS Piano Wire



F1-10075

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. Shipping restrictions and fees may apply.

PART #	DESCRIPTION
F1-10075	FIS Canned Air (10oz.)



F1-0001V

MATCHING GEL

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
F1-0001V	FIS Matching Gel (0.40oz.)



FIS DISPENSING BOTTLE

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



F1-0068

F1-000728



HAZMAT FEES
MAY APPLY
GALLON ONLY

ISOPROPYL ALCOHOL PRODUCTS

This 99% reagent grade isopropyl is used in cleaning fiber or connector endfaces for better transmission performance. Also offered are pre-filled foam swabs and 4 oz. dispensing bottles available 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	1 Case of 6 (4 oz.) Alcohol Bottles with Spray Top
F1-0007	1 Case of 6 (4 oz.) Alcohol Squeeze Bottles
F1-000728	Bottled Alcohol (28 oz.)
F1-1007-GA	1 Case Alcohol (4 gallons per case)



F1-6706



FIBER OPTIC CLEANING SOLUTION

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

PART #	DESCRIPTION
F1-6706	Fiber Optic Cleaning Solution (2 oz.)



F1-1004



F1-1010

PRE-MOISTENED ALCOHOL WIPES

Fast evaporating Pre-Moistened Alcohol 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 new 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.)



F1-6705



F1-6702

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)

FIS FIBER OPTIC 4"x4" NON-WOVEN CLOTH WIPES

Non-Woven Cloth Wipes can be used alone or with alcohol or solvents. Provide 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"

FIS FIBER SWIPE500

This unique handheld connector ferrule endface 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 endface 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

FIS HAND HELD 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 Hand Held Connector Cleaner Universal (400 cleans)
F1-7021C	FIS Cleaning Media Replacement Reel (20 ft.)



F1-6712



F1-7020C

FIS BULKHEAD FERRULE CLEANER

The FIS Bulkhead Ferrule Cleaner is an easy-to-use option for cleaning connectors in adapters. Simply insert the FIS Bulkhead Ferrule Cleaner into an adapter and push until an audible “click” is heard. The FIS Bulkhead Ferrule Cleaner uses the mechanical push action to advance and optical grade cleaning tape while the cleaning tip is rotated to ensure the fiber end-face is effectively, but gently cleaned. The FIS Bulkhead Ferrule Cleaner is a must-have for technicians. Small enough to fit in a shirt pocket and a great addition to cleaning kits.

PART #	DESCRIPTION
F1-6715	FIS 2.5mm Bulkhead Ferrule Cleaner
F1-6716	FIS 1.25mm Bulkhead Ferrule Cleaner



F1-6715



F1-6716

FIS ROTOSWIPE

The FIS Rotoswipe ferrule cleaner is convenient for cleaning connector endfaces from inside bulkheads or mating sleeves without removing connectors from the back panel. Simply choose from the 2.5 or 1.25mm ferrule version, insert into the mating sleeve until cleaning tip with fabric gently touches the ferrule endface, then turn the gray rotator dial 2-3 clicks clockwise. Inspect for cleanliness if desired, with a video microscope. You can utilize this cleaner for patch cable endfaces as well as, with use of female mating sleeves for correct gender type.

PART #	DESCRIPTION
F1-6710	FIS 2.5mm ROTOSWIPE Cleaner
F1-6711	FIS 1.25mm ROTOSWIPE LC Cleaner



F1-6710

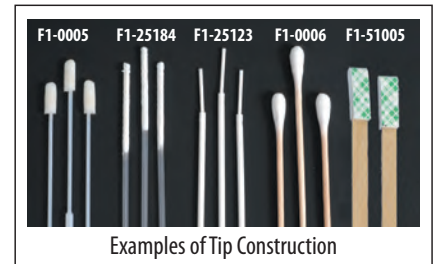


F1-6711

FIBER OPTIC SWABS

When cleaning connector endfaces inside bulkheads, mating sleeves and other recessed areas, you'll appreciate the extended reach that our 2.5mm and 1.25mm swabs provide. Choose from wrapped swabs, foam swabs or general purpose cotton swabs. NOTE: The general purpose cotton swabs do not fit into 2.5mm or 1.25mm adapters.

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)
F1-0005	2.5mm Mini Foam Swabs (50 pk)
F1-51005	Debris Removal Swab - with Adhesive (5 pack)
F1-5100100	Debris Removal Swab - with Adhesive (100 pack)



Examples of Tip Construction



9092 MTRJ/MTP



9091 MU/LC



Side A



Side B

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)
94515	Curing Stand
8032-0000	Thermometer



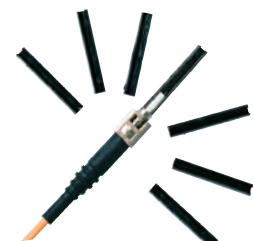
F1-9772 CE

OPTIONAL CURING STAND SHOWN

OVEN PROTECTION SLEEVES

Use to prevent breakage of protruding fiber during connector heat oven curing process. These oven protection sleeves are reusable.

PART #	DESCRIPTION
80879000M	Oven Protection Sleeve 2.5mm Ferrules
867730011	Molex Oven Protection Sleeve 1.25mm Ferrules



80879000M



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.)



EPOXY



F1-001261



501202-1



BUY 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
H05-100-RX	Quick Cure - Single Pack
T60-065-BX	Blue Dye - Single Pack
T120-023-CX	Room Cure - Single Pack
H15-080-RX	Heat Cure - Single Pack
H05-100-RX-50	Quick Cure - 50 Pack
T60-065-BX-50	Blue Dye - 50 Pack
T120-023-CX-50	Room Cure - 50 Pack
H15-080-RX-50	Heat Cure - 50 Pack
501202-1	Epoxy Mixer (Roller)

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

F1-001261	Low Viscosity Blue Dye Epoxy (4 oz.)
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F1-BTXY



HYSOL EPOXY



680

7649

CYANOACRYLATE ADHESIVE

This quick set cyanoacrylate adhesive is provided for terminating FIS Bobtail Connectors. An accelerant provides even faster cure time, less than 60 seconds.

PART #	DESCRIPTION
F1-BTXY	Adhesive (For Bobtail Connectors)

HYSOL EPOXY

Contained in two separate tubes or packets, the Hysol Epoxy can be heat or time cured. Hysol Epoxy is excellent for general connector use. A quick dry, 4 gram, mini packet is available for individual connector repair.

PART #	DESCRIPTION
F1-707010	Hysol Epoxy (3.4 oz.) (10 sets in each case)
F1-608	Mini Packet (4gm) Fast Cure Epoxy

ANAEROBIC ADHESIVE

This two-part system self cures in minutes with no heat required. The retaining compound is injected into the connector with a syringe needle. Dip or spray the fiber with primer and connectorize as usual. Sets up in seconds, fully cured in minutes. Domestic ground shipment only! For use when recommended by connector manufacturer.

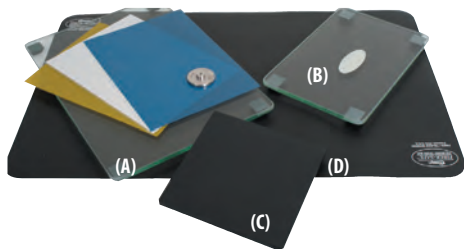
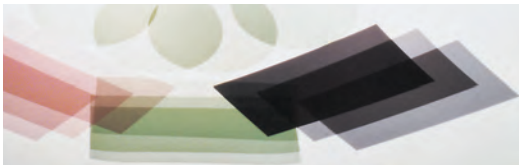
PART #	DESCRIPTION
680	Anaerobic Adhesive Hardener
7649	Primer
F1-ANAEROBICKIT	Kit (Anaerobic Adhesive, Primer and Syringe Tips)



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. The plastic fiber optic polishing disks are also very useful. The ST Plastic Polish Disc is so affordable that you can purchase several of them to keep handy in your toolbox, truck or in the shop.

PART #	DESCRIPTION
F1-6925UN	ST/SC/FC Universal 2.5mm Polish Disc
F1-6925ST	ST Polish Disc (G)
F1-6977ST	ST 4 Position Polish Disc (I)
F1-6928SC	SC Polish Disc (C)
F1-6928APC	SC/APC Polish Disc
F1-6925FC	FC/PC Polish Disc (D)
F1-6925FCAPC	FC/APC Polish Disc (H)
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)



FIS ONE-STEP POLISH FILM

- Achieve Higher Yields
- Lower Your Material Costs
- Save on Labor Cost
- Eliminate Multiple Diamond Films
- Improve Efficiency and Productivity

A revolutionary process has resulted in a truly remarkable polish film. This new film offers super performance and is ideal for any production polish machines. Try this film to see how it improves efficiency and profitability of your operation. You will be impressed! Call your FIS Sales Representative for details today.

PART #	DESCRIPTION
F1-ONE04	One Step 4" Diamond Disc
F1-ONE05	One Step 5" Diamond Disc
F1-ONE6X6	One Step 6" X 6" Diamond Sheet

FIS POLISH FILM SOLD IN PACKS OF 25 SHEETS

When choosing polish film, you want to achieve two things; a high-quality endface 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. As low as 36 cents 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
F1-0109-2	Aluminum Oxide	2µm	Aqua
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"

F1-0102-03	Aluminum Oxide	.3µm	White
F1-0102-03	Aluminum Oxide	1µm	Lt. Green
F1-0102-2	Aluminum Oxide	2µm	Aqua
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

PART #	DESCRIPTION	GRIT	COLOR	QTY
F1-0107-1S	3" x 6" Sheet	1µm	Violet	1
F1-0107-3S	3" x 6" Sheet	3µm	Pink	1
F1-0107-30S	3" x 6" Sheet	30µm	Green	1

FIS MACHINE POLISHING DISCS

PART #	SIZE	TYPE	GRIT	COLOR	QTY.
F1-010705D	4" diameter	Aluminum Oxide	.05µm	Yellow	25
F1-01071DD	4" diameter	Diamond	1µm	Violet	1
F1-01073DD	4" diameter	Diamond	3µm	Pink	1
F1-01076DD	4" diameter	Diamond	6µm	Grey	1
F1-010730DD	4" diameter	Diamond	30µm	Green	1
F1-010805D	5" diameter	Aluminum Oxide	.05µm	Yellow	25
F1-01081DD	5" diameter	Diamond	1µm	Violet	1
F1-01083DD	5" diameter	Diamond	3µm	Pink	1
F1-01086DD	5" diameter	Diamond	6µm	Brown	1
F1-010830DD	5" diameter	Diamond	30µm	Green	1

POLISH PLATES, PADS & 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)

FULLY CUSTOMIZABLE FIS TOOL KITS!



Basic Fiber Optic Kit - F1-0053

FIS is the leader in the fiber optic industry for offering 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 Kit.

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 (THT-2140C)
- (50) Foam Swabs (F1-0005)
- Cleaning Tissue (F1-6705)
- Utility Knife (F1-0023BLK)
- Tweezers (F1-0019)
- Needle Nose Pliers (THT-1840C)
- Piano Wire (F1-8265K)
- Fiber Optic Wipes (F1-6705)
- 4 Bit Screwdriver (F1-0027)
- Black Marker (F1-9104)
- Safety Glasses (F1-513390)
- (5) Degreaser Wipes (F1-1010)
- (5) Fusion Splice Sleeves 60mm (F1-1002C)
- Black Work Mat (F1-0024)
- Fiber Disposal Unit (F1-8328C)
- Ruler (RMC-6)
- Fabric Tape Measure (F1-8273)
- 1/2" Nut Driver (1UG30)
- (3) Economy Tie Labels (P50LABELKIT)
- Rugged Carry Case (F10053HARD)
- Shrink Tube Kit (P50TUBEKIT)
- 1Mtr 3mm Furcation (F00FR3R0)
- 1Mtr 900µm Furcation (F00FR900HW)



Now Available with Greenlee Tools!

Look For Green Part Numbers



Supplied Greenlee Tools:

- Jacket Stripper 26-16AWG (1917) - Replaces (F1-0016)
- 6" Side Cut Pliers (0251-06M) - Replaces (THT-2140C)
- 6" Needle Nose Pliers (0351-06D) - Replaces (THT-18404C)
- 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 (1UG30)
- 7/16" Nut Driver (0253-16C) - Addition

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 See Left)
F1-0053P-G	Basic Tool Kit with PVFL (F1-9000) and Greenlee Tools (See Left)

CONNECTORIZATION EPOXY TOOL KIT (LC, MU)

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

- Glass Polish Plate (F1-9111)
- Carbide Scribe (F1-9773)
- LC/MU Crimp Tool (F1-8825)
- Rubber Polish Pad (PP-575)
- (5) Syringes (5014733IRC5)
- LC Adapter for Scope (F1-MA1.25)
- FIS Universal Microscope (F1-MS200X)
- (5) FIS 4gr. Blue Dye Epoxy (T60-065-B4)
- LC/MU Universal Polish Puck (F1-6930UN)
- (5) 0.5µm Diamond Film Sheet (DLF6X6.5661X)
- (5) 1.5µm Diamond Polish Film Sheet (DLF6X61.5661X)
- Instructions for FIS Connectors LC (F217)

PART #	DESCRIPTION
F1-0053LM	Universal 1.25mm Epoxy Connectorization Tool Kit (LC/MU)

CONNECTORIZATION EPOXY TOOL KIT (SC, FC, ST)

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

- Carbide Scribe (F1-9773)
- FIS Universal Crimp Tool (F1-3227)
- Rubber Polish Pad (PP-575)
- Glass Polish Plate (F1-9111)
- (5) Syringes (5014733IRC5)
- Universal Polish Puck (F1-6925UN)
- (5) 0.3µm Polish Film Sheet (F1-0102-03S)
- (5) 1µm Polish Film Sheet (F1-0102-1S)
- (5) 5µm Polish Film Sheet (F1-0102-5S)
- Instructions for FIS Connectors ST, FC & SC (F217)
- (5) FIS 4gr. Blue Dye Epoxy (T60-065-B4)
- FIS Universal Microscope (F1-MS200X)

PART #	DESCRIPTION
F1-0053U	Universal 2.5mm Epoxy Connectorization Tool Kit (SC, FC, ST)
F1-0053UO	Universal Epoxy Connectorization Tool Kit with 24-Port Heat Oven
F1-0053UO220	Universal Epoxy Connectorization Tool Kit with 24-Port Heat Oven
F1-0053U-G	Universal Epoxy Tool Kit with Greenlee Tools (8 Tools)
F1-0053D	Replacement Consumables

FIS MINI BASIC FIBER OPTIC TOOL KIT

- Mini Soft Case (F1-0053BSC)
- PVC Electrical Tape (F1-0008)
- Tri-Hole Fiber Stripper (F1-1301T)
- FIS Connector Cleaner (F1-7020-C)
- Kevlar Scissors (F1-KS1)
- Buffer Tube Stripper (F1-0017)
- Round Cable Slitter (MK02)
- 6" Side Cutting Pliers (THT-2140C)
- (50) Foam Swabs (F1-0005)
- Fiber Optic Wipes (F1-6702)
- Utility Knife (F1-0023BLK)
- Tweezers (F1-0019)
- Needle Nose Pliers (THT-1840C)
- (5) Fusion Splice Sleeve 60mm (F1-1002C)
- 4 Bit Screwdriver (F1-0027)
- Black Marker (F1-9104)
- Ruler (RMC-6)
- Fabric Tape Measure (F1-8273)
- 2 oz. Cleaning Solvent (F1-6706)
- Piano Wire (F1-8265)

PART #	DESCRIPTION
F1-0053MSB	Mini Basic Fiber Optic Tool Kit

FIS BACKPACK TOOL KIT

All the great products you are 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
F1-0053PACKUG	FIS Backpack Universal Epoxy Tool Kit with Greenlee Tools

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 UNIVERSAL MM TEST SET TOOL KIT

Includes all items in FIS Universal Epoxy Tool Kit (F1-0053U) plus:

- FIS Power Meter with Adapter (F1-8513HR)
- FIS MM 850/1300nm Light Source (9052-0000)
- (2) ST-ST 62.5µm MM 1 mtr Patchcord (S288M1FISC)
- (1) ST-SC 62.5µm MM 1 mtr Patchcord (S28YM1FISC)
- (1) ST-FC 62.5µm MM 1 mtr Patchcords(S287M1FIS)
- (1) ST-ST 50µm 1 mtr. Patchcord (S188M1FISC)
- (1) ST-SC 50µm 1 mtr. Patchcord (S18YM1FISC)
- (1) ST-FC 50µm 1 mtr. Patchcord (S187M1FISC)
- (1) ST-ST Adapter (F1-8102SS)
- SC-SC Adapter (F1-8300)
- FC-FC Adapter (F1-8501)
- Visual Fault Locator (F1-9000)

PART #	DESCRIPTION
F1-0053TS-ST	MM Test Set Tool Kit

FIS UNIVERSAL SM TEST SET TOOL KIT

Includes all items in FIS Universal Epoxy Tool Kit (F1-0053U) plus:

- FIS Power Meter with Adapter (F1-8513HR)
- FIS SM 1310/1550nm Light Source (9055-0000)
- (1) FC-SC SM 1 mtr Patchcord (S37YS1FISC)
- (1) ST-FC SM 1 mtr Patchcord (S378S1FISC)
- (1) SC-SC SM 1 mtr Patchcord (S37YS1FISC)
- Visual Fault Locator (F1-9000)
- FC-FC Adapter (F1-520)
- SC-SC Adapter (F13810BC)
- SC-FC Adapter (F1-34202)

PART #	DESCRIPTION
F1-0053TS-FC	SM Test Set Tool Kit
F1-0053TS-CATV	SM Test Set Tool Kit with CATV PM and SC/APC LS

FIS ANAEROBIC TOOL KIT (SC & LC)

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

- Anaerobic Adhesive Hardener (680)
- Anaerobic Primer (7649)
- (10) Syringe Tips (5014733IRC5)
- 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 (DLF6X6.5661X)
- (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-MS200X)

PART #	DESCRIPTION
F1-0053AH	FIS Anaerobic Tool Kit

FIS FUSION SPLICING TOOL KIT

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

- Cable Cutters (F1-1817)
- Flashlight (F1-605)
- Spatula (10033301)
- (12) Degreaser Wipes (F1-1010)
- 50 Pack Protection Sleeves 60mm (F1-S25C)
- Optional Lynx Cleaver (F1-LYNX)
- Optional Pocket Visual Fault Locator (F1-9000)

PART #	DESCRIPTION
F1-0053FS	Fusion Splicing Tool Kit
F1-0053FS-C	with Lynx Cleaver (F1-LYNX)
F1-0053FS-VFL	with PVFL (F1-9000)
F1-0053FS-C-VFL	with PVFL and Cleaver
F1-0053FS-G	with Greenlee Tools

FIS MINI CLEANING KIT

The FIS Mini Cleaning Kit provides all of the essential cleaning supplies needed for fiber splicing. Kit includes:

- FIS Connector Cleaner (10) (F1-7020C)
- 2.5mm Mini Foam Swabs (50) (F1-0005)
- Cleaning Pen (F1-MXCP)
- (100) 4" x 4" Woven Dry Wipes (F1-6702)
- (10) 4" x 6" Alcohol Towelettes (F1-1004)
- FIS Icky Clean (F1-1010)
- Carry Case (F1-77631)

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



FIS Fusion Splicing Tool Kit - F1-0053FS-C



Universal Connectorization Epoxy Kit
F1-0053U / F1-0053LM



Mini Basic Tool Kit - F1-0053MSB



FIS Fiber Optic Cleaning Kit - F1-0053CKM



FIS Backpack Tool Kit - F1-0053PACK



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



FIS Mini Cleaning Kit - F1-0053FSMINI



FIS Fiber Optic Cleaning Kit - F1-6714MPO

DATA CENTER CLEANING STATION

The FIS Fiber Optic Cleaning Station is a unique new 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 patchcords and through adapters in the back plane of enclosures. Optional MPO/MTP cleaning 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.



F1-6714MPO

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
F1-6714BCMPO	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



F1-IRD5-35



F1-IRD5-36

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

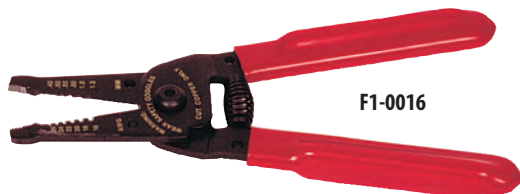


F1-1301T

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)



F1-0016

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

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



F1-3227



F1-8825LM



F1-3227M

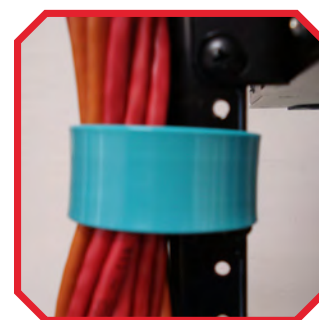
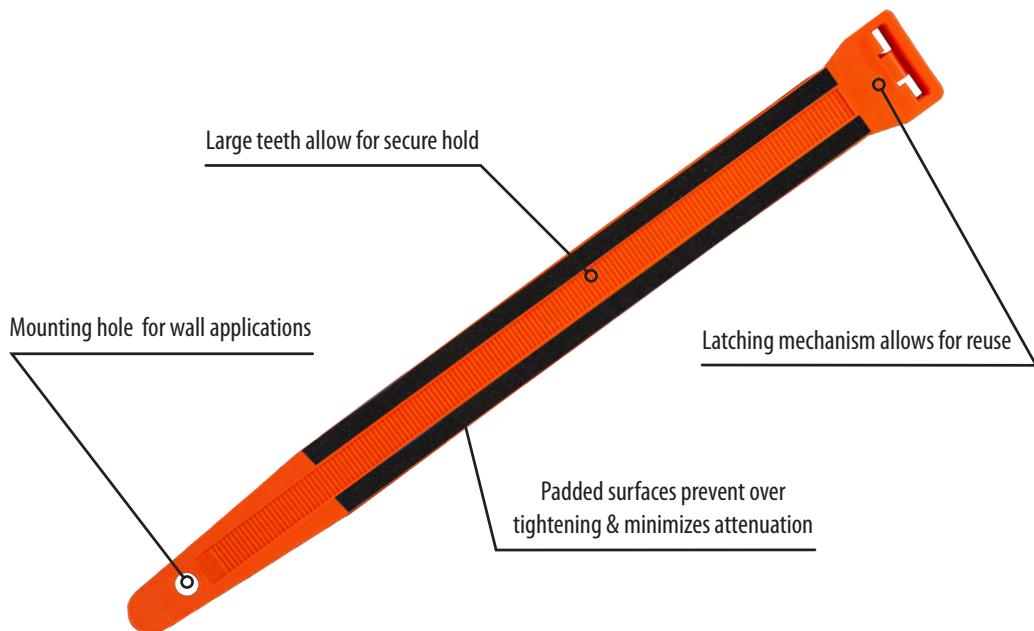
FIS FIBER OPTIC CRIMP TOOLS

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
PA-1330	SMA Triple Hex Tool and Die (.151, .178, .213)
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)



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.

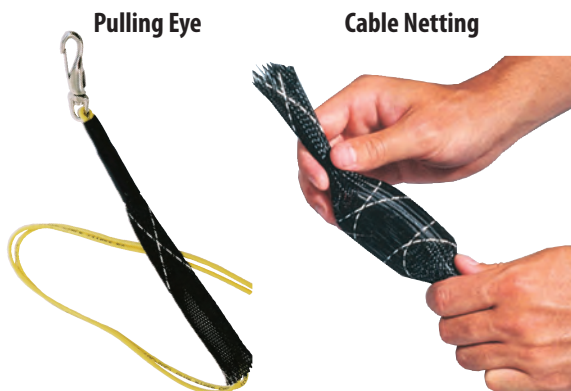
FIS Tie Wraps are 1" wide and 12" long and are available with or without protective foam padding. Sold in convenient packs of 6, 50, 100 pieces. Replace "X" with color of your choice: AQ=Aqua, BK=Black, BL=Blue, GR=Green, OR=Orange, YE=Yellow

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

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)



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
F1-1001A	Pulling Eye Installed by FIS
F1-5700	Cable Netting (Expands up to 2", pulls down to 1/2")

Small Form Pluggable (SFP)

A small form pluggable (SFP) module is a compact, hot-pluggable transceiver used in Ethernet LAN applications. The SFP is used to configure an undefined network port for your specific application (Multimode, Singlemode or Copper (UTP)). The SFP transceiver is not standardized by any official standards body, but rather is specified by a multi-source agreement (MSA) between competing manufacturers. Most Ethernet devices follow the MSA format however Cisco, Avaya, Juniper, Extreme and Enterasys devices use their own proprietary SFP modules and must be ordered as such.

BUILD YOUR OWN CUSTOM SFP

ITEM NUMBER INITIALIZER	INTERFACE	DISTANCE	PROTOCOL	COMPATIBILITY
F1-SFP	S	20	1G	CS
	M = Multimode S = Singlemode	1 = <10km (SR, LRM) 10 = 10km (LX, LH, LR) 15 = 15km 40 = 40km (EX, ER) 80 = 80km (ZX, ZR) 120 = 120km 120+ = > 120km	40G = 40 Gigabit Ethernet 10G = 10 Gigabit Ethernet 1G = Gigabit Ethernet FE = Fast Ethernet	MS = MSA Standard CS = Cisco Systems AV = Avaya JN = Juniper EX = Extreme ET = Enterasys

EXAMPLE : F1-SFP-S-10-1G-CS FIS COST: \$60.00

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 above to create your custom part number. When ready contact a FIS sales rep for ordering information.

PART #	DESCRIPTION
F1-SFP-M-1-FE-XX	100 Mbps LC/MM 850nm 2km range "Choose Compatibility"
F1-SFP-S-10-FE-XX	100 Mbps LC/SM 1310nm 10km range "Choose Compatibility"
F1-SFP-M-1-1G-XX	1 Gbps LC/MM 850nm 550m range "Choose Compatibility"
F1-SFP-S-10-1G-XX	1 Gbps LC/SM 1310nm 10km range "Choose Compatibility"
F1-SFP-S-40-1G-XX	1 Gbps LC/SM 1310nm 40km range "Choose Compatibility"
F1-SFP-S-80-1G-XX	1 Gbps LC/SM 1550nm 80km range "Choose Compatibility"
F1-SFP-M-1-10G-XX	10 Gbps LC/MM 850nm 300m range "Choose Compatibility"
F1-SFP-S-10-10G-XX	10 Gbps LC/SM 1310nm 10km range "Choose Compatibility"



FIS FIBER OPTIC VIDEO TRANSMITTERS & RECEIVERS

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 standalone 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.

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



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 1300nm	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



FIS FIBER OPTIC TRANSMITTER & RECEIVER KIT

Our single channel 850nm converter is designed to provide a high-performance, low-cost solution for the transmission of video circuits. Connects with ST style connectors.

PART #	DESCRIPTION	FIBER MODE
S-MR-850-TR	FIS Standalone Fiber Optic Video Transmitter with Receiver and Power Supply	MM 850nm



S-850SATX

SILENT ALARM TRANSMITTERS & 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



F1-OEC32M2-2

FIS BRIDGE MEDIA CONVERTERS

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. Multimode converter has a range of 2km and Singlemode converter has a range of 20km. External power supply included.

PART #	DESCRIPTION
F1-OEC32M1-2	10/100 Base-T/TX to 100 Base-FX MM/SC Converter
F1-OEC32M2-2	10/100 Base-T/TX to 100 Base-FX MM/ST Converter
F1-OEC32S1-202	10/100 Base-T/TX to 100 Base-FX SM/SC Converter



F1-SWMM1

FIS MEDIA CONVERTER RACK

FIS Media Converter Rack, MCR-1400 is designed to accommodate fourteen separate and independent media converters within a rack-mountable chassis. The rack is fitted with two switching power supplies for enhanced reliability. This means that if one supply should fail, the other is capable of taking over immediately. The MCR-1400 can also be installed in a standard 19-inch site rack; provision has been made for the appropriate connecting brackets.

PART #	DESCRIPTION
MCR-1400	Media Converter Rack Mount with redundant power (not pictured)

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) 100 Mbs fiber ports and (1) 10/100 Mbs twisted pair copper port. Meets IEEE 802.3, 802.3u and 802.3X Standards. This switch provides media conversion for TP and fiber optic media types and extends network spans and has 10/100 Mbps, auto-negotiation on the twisted pair port. External power supply included.

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



FIS 8-Port Mini Switches

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



Stay compliant with industry standards by taking advantage of our full service calibration lab. All equipment is inspected, calibrated to NIST traceable standards, and verified to be in conformance with the manufacturer's specifications. All calibration services include a calibration / verification certificate. Turn around time is typically 10 days for standard services. All calibration services include a NIST traceable calibration certificate. Rental units are available for extended service or repairs.

Call 1-800-5000-FIS (347) to Speak with a Calibration Representative About Pricing



Power Meter & Light Source



FIRECAT

OTDR VERIFICATION SERVICE FEATURES:

- NIST traceable calibration
- Verification of conformance with the manufacturer's specification
- Ensure correct operation and performance
- All calibration services include a NIST traceable calibration certificate

BRAND

- FIS
- EXFO
- AFL/NOYES
- Anritsu
- Platform OTDR and 1 Module
- Additional Modules Available
- Other Models Available

POWER METER & LIGHT SOURCES SERVICE FEATURES:

- NIST traceable calibration
- Verification of conformance with the manufacturer's specification
- Ensure correct operation and performance
- All calibration services include a NIST traceable calibration certificate

BRAND

- FIS
- EXFO
- AFL/NOYES
- Anritsu

TEST SET KIT VERIFICATION SERVICE FEATURES:

- NIST traceable calibration
- Verification of conformance with the manufacturer's specification
- Ensure correct operation and performance
- All calibration services include a NIST traceable calibration certificate

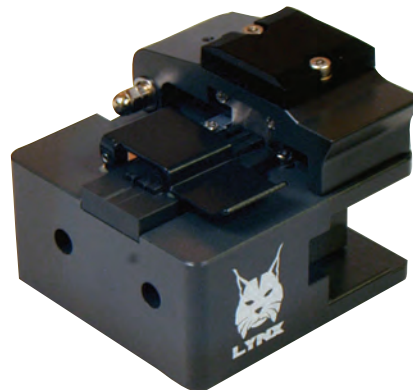
BRAND

- FIS
- EXFO
- AFL/NOYES
- Anritsu



FUSION SPLICER MAINTENANCE

- Replace Electrodes
- Clean Optical Components
- Detailed Cleaning
- Diagnostic and Performance Tests
- Splicer Maintenance and Evaluation



CLEAVER MAINTENANCE

- Blade Adjustment
- Adjust Blade Height
- Verify Proper Performance
- Cleaver Maintenance and Evaluation
- Replacement Blade*

*Subject to Program Availability



OTDR RENTALS

Choice of adapter and launch cable, if required



EXFO FTB 200v2



EXFO FTB 1



EXFO AXS 110



ANRITSU MT9083



MT9090C



NOYES M210

DUAL WAVELENGTH

850/1300nm or 1310/1550nm

FIS DELUXE (MM ONLY)

1 Week	Call for pricing
2 Weeks	Call for pricing
4 Weeks	Call for pricing

ANRITSU MT9083A

1 Week	Call for pricing
2 Week	Call for pricing
4 Weeks	Call for pricing

EXFO AXS 110/Anritsu MT9090C

1 Week	Call for pricing
2 Weeks	Call for pricing
4 Weeks	Call for pricing

EXFO FTB 200

1 Week	Call for pricing
2 Week	Call for pricing
4 Weeks	Call for pricing

QUAD WAVELENGTH

850/1300/1310/1550nm

EXFO FTB 200v2/ FTB 1

1 Week	Call for pricing
2 Weeks	Call for pricing
4 Weeks	Call for pricing

ANRITSU MT9083A

1 Week	Call for pricing
2 Week	Call for pricing
4 Weeks	Call for pricing

FIS DELUXE / EXFO AXS 110

1 Week	Call for pricing
2 Weeks	Call for pricing
4 Weeks	Call for pricing

NOYES M210

1 Week	Call for pricing
2 Week	Call for pricing
4 Weeks	Call for pricing

Call 1-800-500-FIS (347) and Ask For Our Rental Department For Pricing

CERTIFICATION KITS



C860 Kit

NOYES C860 QUAD CERTIFICATION TESTERS

1 Week	Call for pricing
2 Weeks	Call for pricing
4 Weeks	Call for pricing



C880 Kit

NOYES C880 QUAD CERTIFICATION TESTERS

1 Week	Call for pricing
2 Week	Call for pricing
4 Weeks	Call for pricing

Anritsu Fiber Visualizer

The screenshot shows a fiber trace with several events. A prominent event at 617 ft shows a high reflectance of 1.079 dB. The total loss is 4.052 dB at 1310 nm and 5.278 dB at 1550 nm. The overall status is marked as 'FAIL'.

Anritsu rental equipment will be upgraded to include the Anritsu Fiber Visualizer software. Users will be able to see the trace as a graph and toggle to an icon format including distance and loss at each event. Formatting reports and printing trace will be easy. Traces will be saved and downloaded in PDF format eliminating the need for special software on your computer.



FUSION SPLICER RENTALS

Includes cleaver, 1 spare set of electrodes, battery and charge cord



FITEL S123C



FITEL S153



FITEL S178A



AFL FSM-60R



AFL FSM-60S



F1-COUGAR2000

V-GROOVE

FITEL S123C

1 Week	Call for pricing
2 Weeks	Call for pricing
4 Weeks	Call for pricing

Cheetah SOC Compatible

FITEL S153C

1 Week	Call for pricing
2 Weeks	Call for pricing
4 Weeks	Call for pricing

Cheetah SOC Compatible

MASS FUSION SPLICER

AFL FSM-60R / AFL FSM - 70R

1 Week	Call for pricing
2 Weeks	Call for pricing
4 Weeks	Call for pricing

LYNX CLEAVER

Weekly	Call for pricing
--------	------------------



F1-LYNX

CORE ALIGNMENT

FIS SUPER COUGAR SPLICER

1 Week	Call for pricing
2 Weeks	Call for pricing
4 Weeks	Call for pricing

FITEL S178A

1 Week	Call for pricing
2 Weeks	Call for pricing
4 Weeks	Call for pricing

Cheetah SOC Compatible

AFL FSM-60S / AFL FSM - 70S

1 Week	Call for pricing
2 Weeks	Call for pricing
4 Weeks	Call for pricing

Cheetah SOC Compatible, AFL FuseConnect Compatible

SPLICE-ON OVEN / 3mm CURING STATION

1 Week	Call for pricing
2 Weeks	Call for pricing
4 Weeks	Call for pricing



F1-SOC-OVEN

FIS PROTECTION SLEEVE OVEN

1 Week	Call for pricing
2 Weeks	Call for pricing
4 Weeks	Call for pricing



F1-9774

Call 1-800-500-FIS (347) and Ask For Our Rental Department For Pricing

HAND HELD RENTALS

EXFO 500/600

PM & LS	Singlemode or Multimode	1 Week	Call for pricing
	Downloadable Power Meter	2 Weeks	Call for pricing
		4 Weeks	Call for pricing

EXFO

MaxTester (pair)	Singlemode	1 Week	Call for pricing
		2 Weeks	Call for pricing
		4 Weeks	Call for pricing

AFL SMLP5-5

PM & LS	Singlemode or Multimode	1 Week	Call for pricing
	Downloadable Power Meter	2 Weeks	Call for pricing
		4 Weeks	Call for pricing

FLUKE NETWORKS

DTX-1800120	Copper Cable Analyzer	1 Week	Call for pricing
		2 Weeks	Call for pricing
		4 Weeks	Call for pricing



NOYES PM & LS



EXFO FOT-930 Max Tester



Fluke DTX-1800

EQUIPMENT FINANCING

Lease your equipment purchase to strengthen your financial status. Keep more of your cash - Stay Liquid - Maintain Cash Flow



- Get everything you need **now**
- Take up to **5 years** to pay
- End of lease buyout for **\$1**
- Leases starting at **\$1,000**

Amount	\$5,000
Term	36 Months
Estimate Payment	\$190/month
Cost (Lease Fees)	\$45/month

*All terms are estimates

Lease Payment Estimator*	TERM IN MONTHS				
	12	24	38	48	60
For every \$1,000 you need, you pay:	\$101/mo.	\$52/mo.	\$38/mo.	\$31/mo.	\$27/mo



F1-COUGAR2000
FIS Super Cougar



FTB-200v2



SFP-550S



FSM-70S
Fusion Splicer



IT IS AS EASY AS SIMPLY MAILING IN YOUR BUSINESS CARD TO THE ADDRESS BELOW:

Wavelengths Editor
FIS Marketing Department
161 Clear Road.
Oriskany, NY 13424

ATTENTION MANUFACTURERS!

FREE ADVERTISING

ARE YOU LOOKING FOR A WAY TO EXPAND YOUR MARKETING EFFORTS?

IF YOU ARE A CUSTOMER OF FIS, YOU QUALIFY FOR A FREE "BUSINESS CARD" AD IN OUR **WAVELENGTHS** MAGAZINE.

WAVELENGTHS MAGAZINE HAS A CIRCULATION OF OVER 10,000 READERS.



Color Identification

Unless color coding is used for some other purpose, the connector strain relief and adapter housing should be identifiable by the following colors:

- a) 850-nm laser-optimized 50/125 mm fiber – aqua
- b) 50/125 mm fiber – black
- c) 62.5/125 mm fiber – beige
- d) Singlemode fiber – blue
- e) Angled physical contact Singlemode connectors – green

Fiber Optic Splices - Fusion or Mechanical

Maximum insertion loss 0.3 dB

- Minimum return loss:
 - Multimode: 20 dB
 - Singlemode: 26 dB
 - Singlemode: 55 dB (analog CATV)

Optical Fiber Connector (mated pair)

- Maximum insertion loss 0.75 dB

MAXIMUM DISTANCE FOR TWISTED PAIR CABLING

APPLICATION	MEDIA	DISTANCE M (FT.)	NOTES
Ethernet 10BASE-T	Category 3, 5e, 6, 6A	100 (328)	
Ethernet 100BASE-TX	Category 5e, 6, 6A	100 (328)	
Ethernet 1000BASE-T	Category 5e, 6, 6A	100 (328)	
Ethernet 10GBASE-T	Category 6	100 (328)	
ASDL	Category 3, 5e, 6, 6A	5,000 (16,404)	1.5 Mbps to 9 Mbps
VDSL	Category 3, 5e, 6, 6A	5,000 (16,404)	1,500 m (4,900 ft.) for 12.9 Mbps; 300 m (1,000 ft.) for 52.8 Mbps
Analog Phone	Category 3, 5e, 6, 6A	800 (2,625)	
Fax	Category 3, 5e, 6, 6A	5,000 (16,404)	
ATM 25.6	Category 3, 5e, 6, 6A	100 (328)	
ATM 51.84	Category 3, 5e, 6, 6A	100 (328)	
ATM 155.52	Category 5e, 6, 6A	100 (328)	
ATM 1.2G	Category 6, 6A	100 (328)	
ISDN BRI	Category 3, 5e, 6, 6A	5,000 (16,404)	
ISDN PRI	Category 3, 5e, 6, 6A	5,000 (16,404)	

MINIMUM BEND RADIUS & MAXIMUM PULLING TENSION FOR FIBER OPTIC CABLE

Cable Type and Installation Details	Maximum Tensile Load During Installation	Minimum Bend Radii While Subjected To Maximum Tensile Load (During Installation)	No Tensile Load (After Installation)
Inside Plant Cable with 2 or 4 Fibers Installed in Cabling Subsystem 1	220 N	2 inches	1 inch
Inside Plant Cable with more than 4 Fibers	Per Manufacturer	20x O.D.	10x O.D.
Indoor/Outdoor Cable with up to 12 Fibers	1335 N		
Indoor/Outdoor Cable with more than 12 Fibers	2670 N		
Outside Plant Cable	2670 N		
Drop Cable Installed by Pulling	1335 N		
Drop Cable Installed by Directly Buried, Trenched or Blown into Ducts	440 N		

TRANSMISSION PERFORMANCE FOR FIBER OPTIC CABLE

Optical Fiber and Cable Type	Wavelength (nm)	Maximum Attenuation (dB/km)	Minimum Overfilled Modal Bandwidth (MHz·km)	Minimum Effective Modal Bandwidth (MHz·km)
62.5/125 µm Multimode (OM1)	850	3.5	200	Not Required
	1300	1.5	500	Not Required
50/125 µm Multimode (OM2)	850	3.5	200	Not Required
	1300	1.5	500	Not Required
850-nm Laser-Optimized 50/125 µm Multimode (OM3)	850	3.5	1,500	2,000
	1300	1.5	500	Not Required
Singlemode Indoor/Outdoor (OS1/OS2)	1310	0.05	N/A	N/A
	1550	0.05	N/A	N/A
Singlemode Indoor (OS1/OS2)	1310	1.00	N/A	N/A
	1550	1.00	N/A	N/A
Singlemode Outdoor (OS1/OS2)	1310	0.50	N/A	N/A
	1550	0.50	N/A	N/A



- 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

Training Courses Coming to a City Near You!

Pittsburgh, PA • Philadelphia, PA • New York City • Albany, NY
 Boston, MA • Chicago, IL • Tampa, FL • Orlando, FL
 Albuquerque, NM • Dallas, TX • Houston, TX • Little Rock, AR
 Cincinnati, OH • Charleston, SC • Atlanta, GA • Minneapolis, MN
 Hartford, CT • Jackson, MS • New Orleans, LA • Vancouver, BC
 Los Angeles, CA • Las Vegas, NV • Baltimore, MD

For Training Details and Updated Dates Visit:

www.fisuniversity.com

Classes In The Central 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) | \$599.00

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

TRAINEE TESTIMONIAL

"Last December I had the pleasure of working with John Bruno, Training Specialist for Fiber Instrument Sales. John was able to tailor FIS Basic and Advanced Fiber courses to meet our time restrictions and focus on fiber for our broadcast facility. We covered basic theory, fiber/connector type and usage, then care, cleaning and troubleshooting. To top it off, all trainees were given ample time to properly fusion splice pigtailed and 'fuse-on' connectors. He is very effective in imparting his vast knowledge of the subject matter in a concise, yet easy to understand format – this is not only my opinion, but that of all the trainees."

– Paul Winter, Project Engineer, NBC Universal



For more information
 please visit our website at:

www.brightsideonraquette.com



Make the Switch to LEDs

Reduce Energy Use, Save Money



By offering high quality LED light bulbs and fixtures, Energy Efficient Products, Inc. (EEP), consistently provides solutions for commercial, industrial and municipal lighting projects.

Recommended
for "Data Center"
Lighting



LED FIXTURE

The Energy Efficient Products, Inc., LED light fixture is the only UL-listed, made-in-the-U.S. product of its kind. The fixture is designed exclusively for an LED four-foot tube light, with a G13 bi-pin base. The fixture is designed to house one four-foot tube light, is pre-wired and eliminates the need for a ballast, as is necessary with a fluorescent tube light.

The fixture comes in aluminum, or steel for those fixtures that are painted white or other colors, as ordered.

The fixture has punch outs that allow wiring and mounting through the top of the fixture and punch outs on both ends if back-to-back mounting is required. Also, punch outs on both sides and on both ends allow for side-to-side mounting.

Fixture Specifications Interior Use Only, For LED Bulbs Only

Material: 22-Gauge Aluminum or 22-Gauge Steel

Dimensions: Length 48.125", Width 2.63", Depth 3"

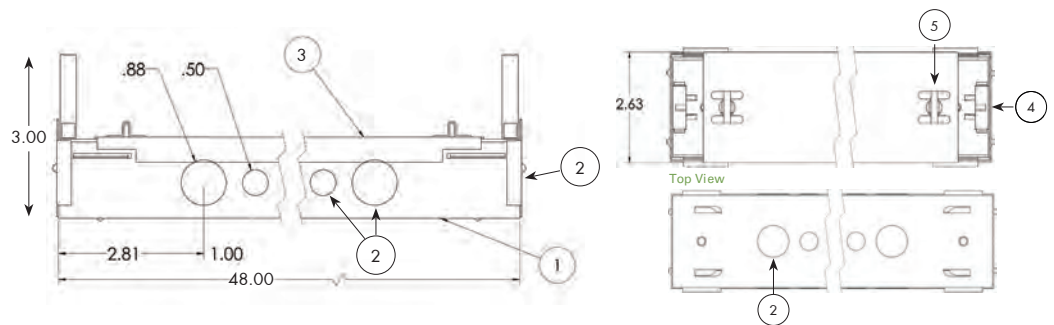
Weight: Aluminum - 1.44 lb., without bulb; Steel - 4.5 lb., without bulb

Voltage Range: 85V to 277V

Powder Coat Colors: Aluminum (no coat), White, Eggshell, Blue, Gray Green. Other colors available upon request.

- ① Aluminum or Steel Base
- ② Punch Outs (14 places)
- ③ Cover
- ④ Socket
- ⑤ Base Cover Release

Dimensions shown in inches



PART # DESCRIPTION

EEP-110UL-4FX-1A	Aluminum
EEP-110UL-4FX-1S	Steel
EEP-110UL-4FX-1SW	White
EEP-110UL-4FX-1SE	Eggshell
EEP-110UL-4FX-1SB	Blue
EEP-110UL-4FX-1SG	Gray Green

T8 4-FOOT TUBE LIGHT G13 BI-PIN BASE

Replacing conventional 85-277 volt fluorescent-style light bulbs with high-tech LED lights is as easy as swapping the light bulb. This LED tube light does not use a ballast and requires disconnection of the ballast, except in one bulb per ballast fixtures. (2ft and 8ft tubes available upon request)

PART # DESCRIPTION

EEP-110UL-W34-4	20W Replacing 34-40W Color Temp: Warm
EEP-110UL-D34-4	20W Replacing 34-40W Color Temp: Daylight
EEP-110UL-C34-4	20W Replacing 34-40W Color Temp: Cool
EEP-110DLC-D34-4	18W Replacing 34-40W Color Temp: Daylight



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