

# Optimax™

Field Installable Optical Fiber Connector

Fiber Termination made **fast** and **easy**.

## DESIGNED FOR OPTIMAL PERFORMANCE

- *Faster, easier termination*
- *Available for 62.5 and 50 um Multimode fiber*
- *Available for Singlemode fiber*



FI-3635 TOOL KIT

## THE OPTIMAX TOOL KIT

The OPTIMAX installation kit is an inexpensive, self-contained set of tools including all that is needed to successfully terminate jacketed and tight-buffered 900um fiber using OPTIMAX SC and ST compatible connectors. It includes a unique microscope fitted with a handy fiber holder which greatly simplifies fiber cleave inspection. The compact, rugged nylon carrying case also includes complete installation instructions, a training video, and 'quick reference cards' with visual aids.

### OPTIMAX FEATURES:

- No epoxy required
- No polishing required
- Pre-radiused PC-polish ferrule
- Critical Steps are performed in the factory
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- Floating ferrule (SC) Non-Optical Disconnect
- Unlimited shelf life
- Compact, convenient tool kit
- 62.5 & 50um Multimode and SingleMode
- Training Video

## THE OPTIMAX CONNECTOR

Delivers high performance optical fiber termination in the field. It provides simple, efficient and fast connectorization, and requires no polishing, heat curing, bonding, or epoxy. Instead, the patented mechanical splice body of OPTIMAX incorporates a factory-mounted fiber stub and a pre-polished ceramic ferrule which consistently provides hassle-free, secure and reliable optical fiber cable termination.

OPTIMAX simplifies the technicians work. Even novice technicians can install the OPTIMAX in just a few minutes using inexpensive, commonly available tools such as industry-standard cleavers and strippers. Key installation steps are summarized in illustrated, plasticized quick reference cards', while the OPTIMAX installation video provides an easy to follow step-by-step guide to performing successful connections.

### CONNECTORS ARE AVAILABLE IN:

- 62.5/125 Micron MultiMode
- 50/125 Micron MultiMode
- 8.3/125 Micron SingleMode

Connector Type	Fiber Type	Fiber Size	WPW/CDT Part No.
Multi-Mode Connectors			
ST Compatible	62.5/125um	900um Buffer or Jacketed	FI-8837
ST Compatible	62.5/125um	900um Buffered Fiber	FI-8835
ST Compatible	50/125um	900um Buffer or Jacketed	FI-1074
ST Compatible	50/125um	900um Buffered Fiber	FI-1075
SC	62.5/125um	900um Buffer or Jacketed	FI-0028
SC	62.5/125um	900um Buffered Fiber	FI-0029
SC	50/125um	900um Buffer or Jacketed	FI-1076
SC	50/125um	900um Buffered Fiber	FI-1077
Single-Mode Connectors and Accessories			
ST Compatible	8.3/125um SingleMode	900um Buffered Fiber	FI-1791
SC	8.3/125um SingleMode	900um Buffered Fiber	FI-1792
ST Accessory Kit		For Jacket Fiber	FI-1793
SC Accessory Kit		For Jacket Fiber	FI-1794
OPTIMAX Kit and Accessories			
OPTIMAX St Compatible & SC tool kit, Includes installation tool, fiber cleaver, strip tool, crimp tool, microscope, etc.			FI-3635
OPTIMAX St Compatible & SC Installation tool			FI-3634
OPTIMAX fiber cleaver			FI-8829
OPTIMAX Microscope			FI-8832
OPTIMAX Crimp tool			FI-3641

### TECHNICAL INFORMATION

#### PARAMETERS

Interconnection Compatibility  
 Field Assembly Time  
 Insertion Loss (MM and SM)  
 Durability (MM and SM)  
 Nominal fiber O.D  
 Storage Temperature  
 Operating Temperature  
 Tensile Strength  
 Reflectance (MM)  
 Reflectance (SM)  
 Ferrule

#### SPECIFICATIONS

ST Compatible and SC compatible  
 1 minute 900um, 3 minutes for Jacketed fiber  
 .3dB (Typical)  
 MM- less then .2 dB Change, SM- less than .3 dB change (500 cycles)  
 125um  
 -40° to 40° C  
 0° to 55° C  
 12 lbs. (54 N)  
 -30dB (Typical)  
 -40dB (Typical)  
 Ceramic

# Fiber Optic Connector Kits

## ST EPOXY STYLE CONNECTOR KIT

Catalog No.	Description
FI-0053ST	Epoxy ST style kit

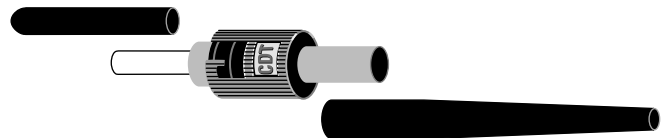
## ST EPOXY QUICK REFERENCE CONNECTORS

Catalog No.	Description
FI-0066	CDT ceramic multimode ST
FI-0069	CDT ceramic single-mode
FI-0061	CDT stainless multimode



## ST EPOXY STYLE CONNECTOR KIT INCLUDES:

- Polish Disc
- Crimp Tool
- Polish Plate
- Jacket Strippers
- Scribe
- Tweezers
- Epoxy
- Folding Knife
- Tape
- Ruler
- Microscope
- Polish Film
- Buffer Strippers
- Scissors
- Alcohol
- Syringes
- Kim Wipes
- Epoxy Mixer
- No-Nik
- Screwdriver



## 3M HOT MELT CONNECTOR KIT

Catalog No.	Description
3M-6150	3M hot melt kit
FI-9772	3M hot melt kit OVEN

## HOT MELT QUICK REFERENCE CONNECTORS

Catalog No.	Description
3M-6100	3M ST hot melt connector
3M-6300	3M SC hot melt connector

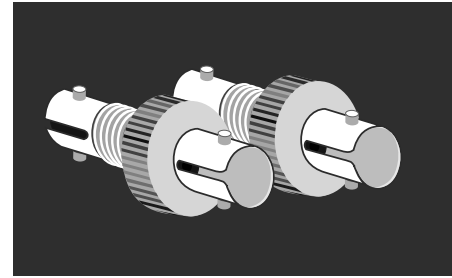
## 3M HOT MELT CONNECTOR KIT INCLUDES:

- Polish disk
- Crimp tool
- Polish plate
- Jacket strippers
- Scribe
- Microscope
- Polish film
- Buffer Strippers
- Scissors
- Cure Oven

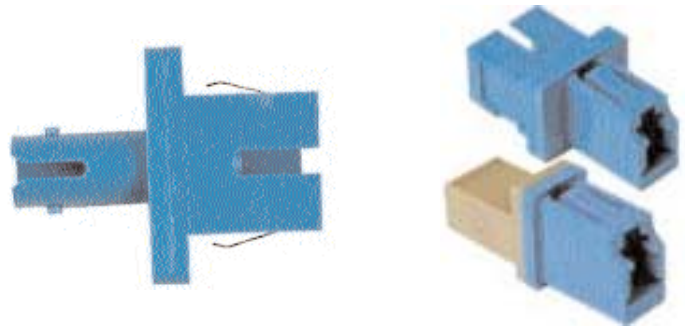
# Fiber Optic Connector Kits

## Mating Sleeves and Adapters

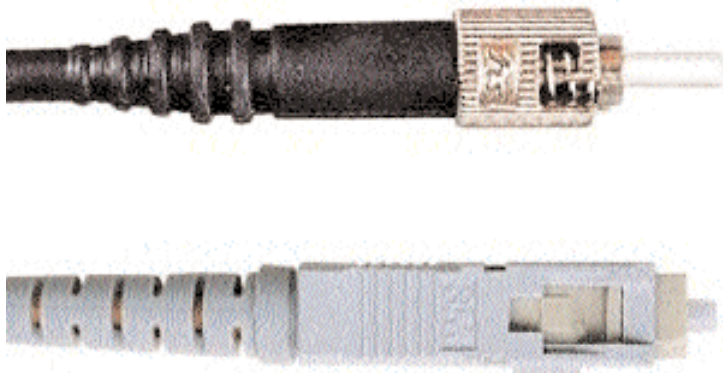
SINGLE ADAPTERS	
Catalog No.	Description
FI-8100	Multimode ST mating sleeve*
FI-8102	Multi/single-mode ST mating sleeve
FI-8200	Single-mode ST mating sleeve
FI-8300	Multi/single-mode SC mating sleeve
FI-8400APC	SM/MM APC polished mating sleeve
FI-8521	FC/APC Adaptor
FI-19202	Female SC to ST Adaptor
FI-FFSCL	Female SC to LC Adaptor



\*NOTE: Other configurations and adaptor styles are available upon request.



## Connectors



EPOXY CONNECTORS	
Catalog No.	Description
FI-0066	CDT ceramic multimode
FI-0069	CDT ceramic single-mode
FI-0061	CDT stainless multimode
3M-6100	3M ST hot melt
3M-6300	3M SC hot melt

## Terminating Tools



TERMINATING TOOLS	
Catalog No.	Description
NN175*	No-nik 175 micron (Loose-Tube)
NN203	No-nik 200 micron (indoor)
FI-FO103S	Miller strippers
FI-0016	Fiber optic jacket strippers
FI-86 1/2s	Serrated Scissors
FI-DS-60-C	60° Cone Scribe
FI-1302	Crimp tool for epoxy connectors

\*The No-Nik 175 micron buffer strippers are used for the 250 micron Loose-Tube fiber optic cable. The No-Nik 203's are used for 250, 500 or 900 micron buffered fiber optic cable.

# Fiber Optic Supplies

## Epoxy

Catalog No.	Pot Life	Room Cure Time	Heat Cure Time	Heat Cure Temp.
FI-BAF253	2 hours	24 hours	1 hour	Up to 65° C
FI-7070	30 minutes	24 hours	30 minutes 2 hours	100° C 60° C
FI-7070P*	3 minutes	5 - 10 minutes	N/A	N/A

\*NOTE: Since cure time is quick, it is recommended that only 3 connectors be prepared at a time.

\*The FI-BAF253 epoxy is available in a mini-pack! Pre-measured epoxy packets assure a proper mix ratio every time!

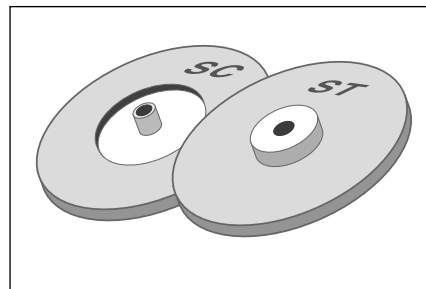
A 2 gram package will prepare approximately 25-35 connectors.

The Hysol Epoxy, FI-7070 contains two separate tubes.

The Hysol Epoxy FI-7070P is contained in packets, and is used for emergency repairs.

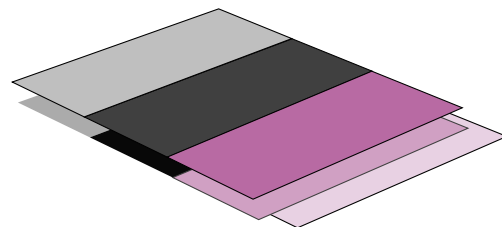
## Polishing Disks

CONNECTOR POLISHING DISC	
Catalog No.	Description
FI-6925	ST polishing disc
FI-6928	SC polishing disc



## Lapping Film

LAPPING (polishing) FILM	
Catalog No.	Description
FI-0109-03	Alum. oxide 9 x 13, .3 micron
FI-0109-1	Alum. oxide 9 x 13, 1 micron
FI-0109-2	Alum. oxide 9 x 13, 2 micron
FI-0109-3	Alum. oxide 9 x 13, 3 micron
FI-0109-5	Silicon carbide 9 x 13, 5 micron
FI-0109-9	Alum. oxide 9 x 13, 9 micron
FI-0109-12	Alum. oxide 9 x 13, 12 micron
FI-0109-15	Alum. oxide 9 x 13, 15 micron
FI-01090501-03	3 in one film, 9 x 13, 5, 1, .3 micron

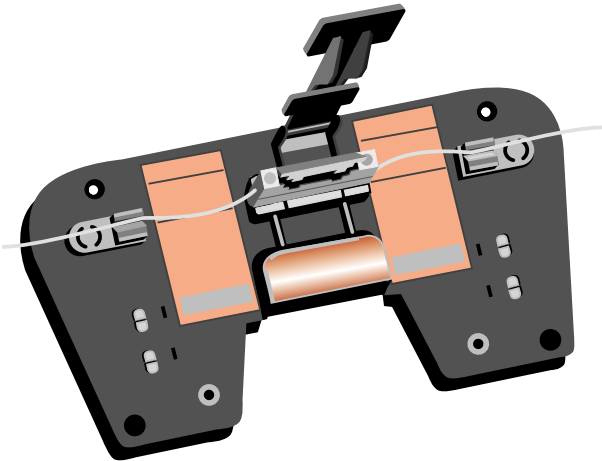


For an OPTIMUM connector polish, we recommend a three stage polish utilizing:

- 5 um polishing film
- 1 um polishing film
- 3 um polishing film

# Fiber Optic Supplies

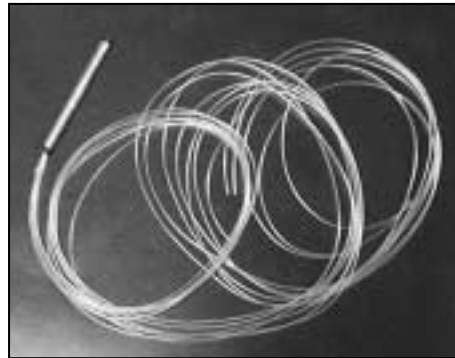
## Splicing Supplies



FIBER OPTIC SPLICING SUPPLIES	
Catalog No.	Description
FI-0053-FI	3M Fiberlock splice kit
3M-2501	3M splice tool
3M-2529	3M splice (universal)
FI-8400	Fiber optic splice tray
FI-STPRME	12 fiber optic splice tray

## Breakout Kits

BREAKOUT (fanout) KITS	
Catalog No.	Description
FI-30-489	Breakout Crimp tool
FI-90272	6 fiber breakout kit
FI-90273	12 fiber breakout kit
FI-001FTSF-3	3mm jacket breakout kit
FI-FT900	900 micron furcation tubing

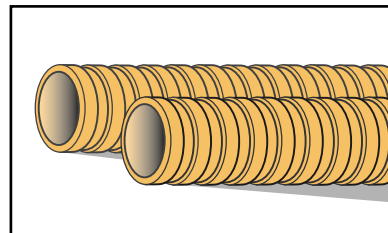


## Scribe/Cleaver

SCRIBE/CLEAVER	
Catalog No.	Description
FO-90-W	90° wedge scribe
FI-8829	Optimax cleaver

## Innerduct

INNERDUCT	
Catalog No.	Description
FI-6211	Innerduct corrugated
FI-6212	Riser innerduct
FI-6311	Plenum innerduct corrugated
FI-6411	Spiral wrap innerduct



The Innerduct provides additional protection for the fiber optic cable. In addition, the innerduct has a pull rope to make pulling the fiber cable much easier!

# Fiber Optic Accessories

## Testing Equipment

TESTING EQUIPMENT	
Catalog No.	Description
FI-5000	Fiber continuity tester
FI08513	Hand held power meter 850/1310/1550
FI-0850	Light source 850nm
FI-1300	Light source 1300nm
FI-8513	Dual light source 850/1300nm
FI-1000	Visual fault detector (optical verifier)
FI-9699	Mini OTDR 850 & 1300nm Multimode Fiber Optic. Add NR to part no. for Non-Rugged Version



## Cable Assemblies

Catalog No.	ST, SC, OR LC FIBER OPTIC PATCH CABLE
	DESCRIPTION
Add ST, SC, or LC	Simplex
FI-2001-3	3' Simplex Patch Cable ST, SC or LC Type
FI-2001-6	6' Simplex Patch Cable ST, SC or LC Type
FI-2001-10	10' Simplex Patch Cable ST, SC or LC Type
FI-2001-15	15' Simplex Patch Cable ST, SC or LC Type
FI-2001-30	30' Simplex Patch Cable ST, SC or LC Type
	Duplex
FI-2002-3	3' Duplex Patch Cable ST, SC or LC Type
FI-2002-6	6' Duplex Patch Cable ST, SC or LC Type
FI-2002-10	10' Duplex Patch Cable ST, SC or LC Type
FI-2002-15	15' Duplex Patch Cable ST, SC or LC Type
FI-2002-30	30' Duplex Patch Cable ST, SC or LC Type

CUSTOMIZED CABLE ASSEMBLIES ARE AVAILABLE UPON REQUEST

# Fiber Optic Accessories

## RACK MOUNTED PATCH PANELS

Catalog No.	Description
FI-RME24STL	24 port RM dedicated PP economy, loaded
FI-RME48STL	48 port RM dedicated PP economy, loaded
FI-RM24	24 port RM six pack, empty, with front and back enclosures (needs 4 adaptor plates)
FI-RM48	48 port RM six pack, empty, with front and back enclosures (needs 8 adaptor plates)
FI-RM72	72 port RM six pack, empty, with front and back enclosures (needs 12 adaptor plates)

### 48 Port Economy Rack Mount



24, 48, 72 Port  
Rack Mount Enclosure



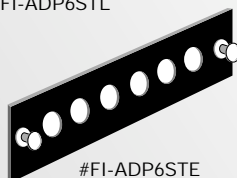
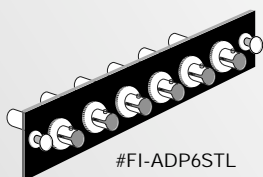
## WALL MOUNT ENCLOSURES

Catalog No.	Description
FI-WME06STL	6 port economy, dedicated PP loaded with ST multimode adapters
FI-WME12STL	12 port economy, dedicated PP loaded with ST multimode adapters
FI-WM12	6/12 port double door, six pack, empty (needs 2 adaptor plates)
FI-WM24	24 port double door, six pack, empty (needs 4 adaptor plates)
FI-WM48	48 port double door, six pack, empty (needs 8 adaptor plates)



## FREE STANDING RACKS

Catalog No.	Description
CN-XDR4819	19" free standing steel distribution rack, 48" high
CN-XDR7219	19" free standing steel distribution rack, 72" high
CN-XDR8419	19" free standing steel distribution rack, 84" high



## FIBER OPTIC ADAPTOR PLATES

Catalog No.	Description
FI-ADP6STE	"Snap in" adaptor plate, 6 ST empty
FI-ADP6STL	"Snap in" adaptor plate, 6 ST loaded with ST multimode adapters
FI-ADP6BNK	"Snap in" adaptor plate, blank
FI-ADP6SCE	"Snap in" adaptor plate, 6 SC empty
FI-ADP6SCL	"Snap in" adaptor plate, 6 SC loaded
FI-ADP6SMSTL	"Snap in" adaptor plate, 6 single mode ST loaded
FI-ADP6S/MSTL	"Snap in" adaptor plate, 6 single/multi ST loaded