



Fiber Interconnect Solutions

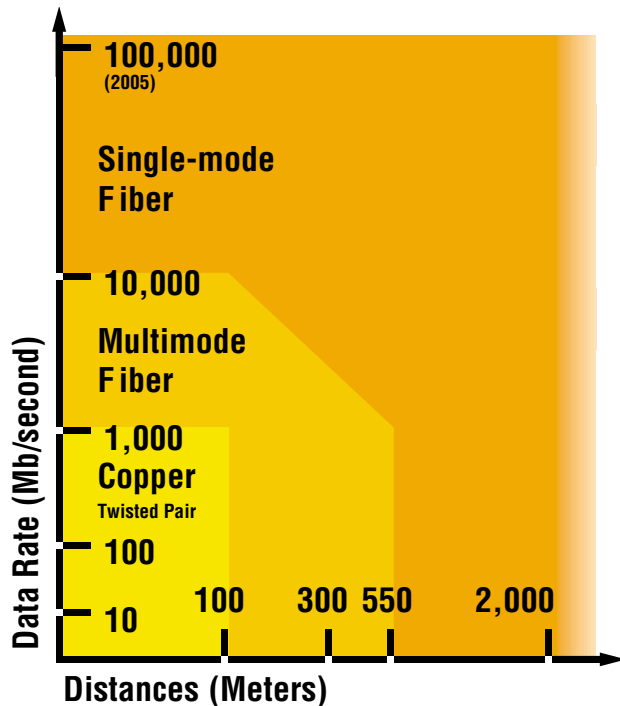
Connectors, Cable Assemblies and Splices



3M™ Fiber Interconnect Solutions

3M Supported Application Map

3M Enterprise Solutions include fiber interconnect, copper, multimode and single-mode fiber products that can be used in combination for virtually every application.



Copper	Multimode Fiber	Single-mode Fiber
Provides for conventional LAN distributed structured cabling, SOHO, residential and other short-distance applications supporting networks up to gigabit data rates.	Ideal for building backbones, centralized single-closet fiber networks, and data or system area networks where legacy or future bandwidth-intensive applications are considered.	Ultimate media solution for extreme high-speed transmission rates and longer distances ranging from a few to thousands of meters; addresses existing and anticipated rapid growth in network traffic volume.

Improve your network performance and be fast about it.

The future is fiber. And 3M Fiber Interconnect Solutions is leading the way with a broad range of ferruled fiber connectors and couplings, mechanical splices, cable assemblies and complementing necessary accessories, designed for the interconnection of fiber optic networks.

3M features a full line of single-mode and multimode FC, SC and ST connectors. Our 3M™ Hot Melt and 3M™ Crimplok™ Connectors are among the most popular connectors among contractors and installers because of their reliability and ease of use. Our 3M™ Fibrok™ Mechanical Splice is a leading mechanical splice and is now specified in fiber-to-the-home projects as a substitute for connectors and couplings. And our 3M™ GGP (glass/glass/polymer fiber) Cable Assemblies, with their unique fiber construction, deliver higher strength in tension and bending compared to conventional fibers.

3M fiber interconnect products are offered globally as components, part of our optical distribution frames or other cross-connection systems. 3M fiber interconnect solutions are used for applications in access networks and enterprise networks, and are part of the products sold into these markets by telecom equipment manufacturers.

Transform your network into a high performance network with 3M Fiber Interconnect Solutions.

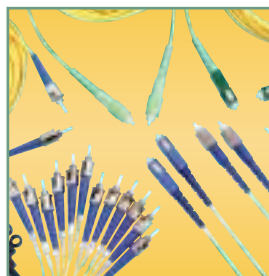
Easily your best connection.

Seventy years of adhesive expertise, 40 years of ceramic technology leadership and 30 years of fiber optic experience have enabled 3M to provide the most convenient, reliable, and easy-to-install connectors for fiber networks.



Connectors

1



Cable Assemblies

2



Splices

3

3M offers a variety of connection technologies for a variety of specifications. 3M™ Epoxy Connectors use a standard epoxy adhesive. 3M™ Hot Melt Connectors come with a pre-loaded adhesive. And our patented 3M™ Crimplok™ Connectors need no adhesive at all, providing the speed of non-adhesive connectors with the optical performance of epoxy and hot melt connectors. 3M connectors are available in single-mode and multimode FC/PC, SC and ST configurations.

But 3M innovation doesn't stop there. We've introduced new fiber optic bulk pack connectors (1000/bag) that eliminate the need for cable assembly shops to unwrap individual connectors. This packaging drastically decreases assembly time, which can translate to lower costs and higher efficiency.

It pays to have the right connections. Especially when those connections are with 3M.

The performance you need. The convenience you want.

The 3M™ Fiber Optic Cable Assemblies used in patch panels (fiber distribution units) are an essential interface between fiber outside plant cable and optical equipment. Cable assemblies also provide interconnect capabilities between equipment and distribution panels and equipment to equipment. 3M fiber optic cable assemblies include pigtailed, jumpers and pre-connectorized multi-fiber cable assemblies.

Our pre-connectorized cable assemblies include standard cable assemblies (single-mode or multimode optical fiber cable terminated on both ends with a connector), hybrid cable assemblies (a combination of two different connector designs terminated on one fiber optic cable) and duplex cable assemblies (a combination of four connectors mounted on duplex fiber optic cable). 3M also provides pigtailed (one connectorized end) on jacketed and unjacketed fiber optic cable.

We can even provide application-specific solutions—termination of various styles of cables and connectors for those customers with unique requirements.

Faster splices mean lower prices.

The 3M™ Fibrlok™ Mechanical Optical Splice is the leading mechanical splice in the fiber optic industry. Our 3M™ Fibrlok™ II Universal Optical Fiber Mechanical Splice 2529 can easily splice any combination of 250 or 900 micron coated fibers with inexpensive tooling and no electrical power.

The 3M™ Fibrlok™ Multi-fiber Optical Splicing System 2600 is designed to splice up to 12 fibers in less than five minutes.

We bend over backwards to serve you.

3M is an innovation company. Our products, systems and services are optimized for constructing and rehabilitating networks for faster, more reliable performance.

That means delivering products that conform to industry standards that are as reliable as they are intermateable.

3M continues to maintain a strong reputation for service. This includes collaborating with other industry leaders to develop meaningful goals and standards. We strive to exceed those standards in everything we do.

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3M™ Field-Installable Connectors

3M offers a complete line of fiber connectors with both ceramic and composite ferrules. Our 3M™ Hot Melt and 3M™ Crimplok™ Connectors are among the most popular connectors among contractors because of their reliability and ease of use. The 3M field-installable connectors maximize termination yield through ease of mounting and a high performance polishing procedure. 3M connectors are available in FC, SC, ST and APC product families.

Leave the epoxy at home: 3M Hot Melt Connectors

The 3M Hot Melt connector comes pre-loaded with advanced hot melt adhesive, which features an extended shelf life compared to epoxy versions. So you can leave the epoxy at home. There is no need for a syringe, applicator or mixing. And since there is no waiting for epoxy to cure, termination is fast—just two minutes (average).

The 3M Hot Melt connector's reliability, high performance and ease of use in both indoor and outdoor LANs worldwide, plus the savings in time and materials, have made it an industry favorite. 3M™ SC and FC Ultra High Temp Hot Melt Connectors are designed for single-mode telephony. They can be used up to 100°C (212°F).

High performance without adhesives: 3M Crimplok Connectors

3M Crimplok connectors combine the speed of non-adhesive connectors with performance characteristics of epoxy and hot melt connectors. 3M Crimplok connectors use proven 3M™ Fibrlok™ malleable metal element fiber gripping technology, so connectors can be easily installed virtually anywhere without the need for electrical power. Since there is no waiting for epoxy to cure, termination is less than one minute. This makes them the ideal solution for emergency restoration and quick fiber connections to the desk.

High performance, Low annoyance: 3M™ Epoxy Connectors

3M epoxy connectors feature a pre-radiused, zirconia ceramic PC ferrule that assures contact of fibers for low reflection and consistent, reliable high performance.

Like other 3M field-installable connectors, our epoxy SC and FC connectors are intermateable within NTT specifications, which means an end to retrofit and compatibility issues. Single-mode epoxy connectors are tested to Telcordia GR-326-CORE.

3M™ APC Angled Polish Field-Installable Connectors

The 3M APC connectors are designed with a pre-angled finish on the tip of the zirconia ceramic ferrule to minimize reflections in CATV or high-speed digital system connections. Unlike most angled connectors, 3M APC connectors can be hand-polished in the field. These connectors can be terminated on the fiber cable using the same simple process and kit as other 3M epoxy connectors. These connectors are suitable for mounting on 3 mm and 900 μm fiber cables.



8308 SC UHT Connector 4



6306 SC Multimode Connector 5



8208 FC UHT Connector 6



8306 SC APC Connector 7

Features and Benefits

3M™ Hot Melt Connectors: FC, SC and ST Connectors

Pre-loaded hot melt adhesive	Extended shelf life compared to epoxy versions, fewer consumables (saves money); no epoxy to mix; no syringe needed; shorter set-up time; no shelf life; no mess; no waste
No waiting for epoxy to cure	Termination in two minutes increases productivity; short heat and cool cycle; saves time
Single-step polish for multimode	Only one abrasive to buy; faster polishing (reduces cost)
Unlimited adhesive shelf life	Eliminates outdated epoxy inventory and stock rotation requirements
No crimping required for ST	Saves time
Pre-radiused PC ferrule	Assured contact of fibers; consistent performance
Zirconia ceramic ferrule	Durability; stability through temperature change; quality performance
Meets TIA/EIA 568B specifications	Rugged, reliable performance (SC, ST)

3M™ Ultra High Temp Hot Melt Connectors: Single-mode SC and FC Connectors

Designed to meet Telcordia GR-326-CORE, Issue 3 single-mode environmental specifications and exceed TIA/EIA 568-B.3 standard	Meets or exceeds telephone and data industry requirements for long-term reliability, except as noted below*
Ease of used on site	Quick termination in less than 2 minutes; high-yield
Allows custom length cable assemblies to be built on site	Enhances cable management in CO or network; eliminates quality inspection for cable slack; reduces cable assembly inventory
No pre-polished stub with internal splice	Single fiber interface provides low loss
Proven adhesive for fiber retention	Not dependent on mechanical retention alone
<0.2dB change at 100°C (212°F)	Stable in outside plant environment
3M field-polishing process exceeds -55dB reflection	Reliable in high-speed transmission

*SC connectors pass all of the mechanical tests in Telcordia GR-326, except transmission under applied tensile load at a 90° pull of 3.3 lbs. or greater. This is consistent with other SC connectors that adhere to the NTT standard boot design. Transmission returns to the original readings as soon as the load is released.

3M™ Crimplok™ Connectors: SC and ST Connectors

Non-adhesive design	Clean and simple terminations
No set-up required	Improved efficiency
No waiting for epoxy to cure	Termination in less than one minute with fully prepared fiber
No power or electricity required	Installation anywhere
Meets TIA/EIA 568B specifications	Rugged, reliable performance

3M™ Epoxy Connectors: FC, SC and ST Connectors

Pre-radiused PC ferrule	Fiber centered in radius; improved performance; assures contact of fibers; low reflection; consistent performance; excellent transmission performance
Zirconia ceramic ferrule	Durability; stability through temperature change; quality performance; reduces reflection problems; field polish ≤45 dB reflection (single-mode epoxy only*)
Pull-proof (independent) ferrule	Maintains optical contact (FC, SC)
Intermateable with NTT specifications	Versatility; convenient global source (FC, SC)
High strength thermoplastic housing	Eliminates flaking; resists corrosion (FC, SC)
Tested to Telcordia (SM) and TIA/EIA 568B (MM) specifications	Rugged and reliable long-term performance (FC, SC)

*when mated with another connector with the same polish

Specifications for the 3M™ FC Connectors

	Multimode			Single-mode			
Product Number	6200	6202	6204	8203/8204	8208	8200	8206-FC/APC
Connector type	Hot Melt Ceramic	Epoxy Ceramic	Epoxy Composite	Epoxy Ceramic	UHT Hot Melt Ceramic	Hot Melt Ceramic	Epoxy Ceramic
Fiber size (µm)	125	125	125	126/127	126	126	126
Insertion loss (dB) typical field mount (one mated pair) @ 1300 nm	<0.2	<0.2	<0.2	<0.3	<0.2	<0.2	<0.2
Reflection (dB) typical field mount	-25	-25	-25	-45	-55	-40	-65
Connector durability (dB) change after 200 matings	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Operating temperature connector only (cable dependent)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-10° to 60°C (-14° to 140°F)	-40° to 85°C (-40° to 185°F)	-40° to 100°C (-40° to 212°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)
Storage temperature	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-40° to 80°C (-40° to 176°F)	-40° to 85°C (-40° to 185°F)	-40° to 100°C (-40° to 212°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)
Cable tension (in service) Straight pull at 90N (20.5 lbf) Side pull at 13N (3 lbf)	<0.5 dB increase <0.5 dB increase	<0.5 dB increase <0.5 dB increase	<0.5 dB increase <0.5 dB increase	<0.5 dB increase <0.5 dB increase	<0.5 dB increase <0.5 dB increase	<0.5 dB increase <0.5 dB increase	<0.5 dB increase <0.5 dB increase
Testing specifications	TIA*	TIA*	TIA*	TIA* Telcordia**	TIA* Telcordia**	TIA*	TIA* Telcordia**
Material Connector ferrule Connector housing and body Boot	Zirconia ceramic Engineered resin Thermoplastic elastomer	Zirconia ceramic Engineered resin Thermoplastic elastomer	Composite Engineered resin Thermoplastic elastomer	Zirconia ceramic Engineered resin Thermoplastic elastomer	Zirconia ceramic Engineered resin Thermoplastic elastomer	Zirconia ceramic Engineered resin Thermoplastic elastomer	Zirconia ceramic Engineered resin Thermoplastic elastomer
Flame retardancy	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0
Connector identification Backbone Coupling nut Boot	Beige Black White	Black Black Beige	Black Grey White	Black Grey White	Black Grey Blue	Black Grey White	Beige Green Green
Field Termination Kit 120V 230V	6355 6351	8365 8361	8365 8361	8365 8361	6355 6351	6355 6351	8367 Conversion Kit
Ordering Information	6200	6202	6204	8203/8204	8208	8200	8206-FC/APC
Connector type	Hot Melt Ceramic	Epoxy Ceramic	Epoxy Composite	Epoxy Ceramic	UHT Hot Melt Ceramic	Hot Melt Ceramic	Epoxy Ceramic
Packaging	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.
Minimum order	60 each	60 each	60 each	60 each	60 each	60 each	60 each
UPC	054007-91717	054007-91716	051115-13588	054007-91719 054007-91720	051115-51873	051138-89062	051138-57615

*TIA = TIA/EIA 568B

**Telcordia GR-326-CORE

Specifications for the 3M™ SC Connectors

	Multimode			Single-mode				
Product Number	6300	6900	6306	8308	8300	8306 8307	8900	8306-SC/APC
Connector type	Hot Melt Ceramic	Crimplok™ Ceramic	Epoxy Ceramic	UHT Hot Melt Ceramic	Hot Melt Ceramic	Epoxy Ceramic	Crimplok Ceramic	Epoxy Ceramic
Fiber size (µm)	125	125	125	126	126	126 127	126	126
Insertion Loss (dB) typical field mount (one mated pair) @ 1300 nm	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.2	<0.3
Reflection (dB) typical field mount	-25	-27	-25	-55	-40	-45	-40	-65
Connection durability (dB) change after 500 matings	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Operating temperature connector only (cable dependent)	-40° to 85°C (-40° to 185°F)	-10° to 60°C (14° to 140°F)	-40° to 85°C (-40° to 185°F)	-40° to 100°C (-40° to 212°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-10° to 60°C (14° to 140°F)	-40° to 85°C (-40° to 185°F)
Storage temperature	-40° to 85°C (-40° to 185°F)	-40° to 80°C (-40° to 176°F)	-40° to 85°C (-40° to 185°F)	-40° to 100°C (-40° to 212°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-40° to 80°C (-40° to 176°F)	-40° to 85°C (-40° to 185°F)
Cable tension Straight pull	<0.5 dB increase at 11.24 lbs.	<0.5 dB increase at 11.24 lbs.	<0.5 dB increase at 11.24 lbs.	<0.2 dB increase at 15 lbs.	<0.5 dB increase at 11.24 lbs.	<0.5 dB increase at 11.24 lbs.	<0.5 dB increase at 11.24 lbs.	<0.2 dB increase at 15 lbs.
Side pull	<0.5 dB increase at 3 lbs.	<0.5 dB increase at 3 lbs.	<0.5 dB increase at 3 lbs.	<0.3 dB increase at 7.5 lbs.	<0.5 dB increase at 3 lbs.	<0.5 dB increase at 3 lbs.	<0.5 dB increase at 3 lbs.	<0.3 dB increase at 7.5 lbs.
Testing specifications	TIA*	TIA*	TIA*	Telcordia/TIA*	TIA*	Telcordia/TIA*	TIA*	Telcordia/TIA*
Material								
Connector ferrule	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic
Connector housing and body	Engineered resin	Engineered resin	Engineered resin	Engineered resin	Engineered resin	Engineered resin	Engineered resin	Engineered resin
Boot	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer
Flame retardancy	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0
Connector identification								
Body	Black	Black	Beige	Black	Black	Beige	Black	Beige
Outer shell	Beige	Beige	Beige	Blue	Blue	Blue	Blue	Green
Boot**	White	Black	Beige	Blue	White	White	Black	Green
Field Termination Kit								
120 V	6355	6955	8365	6355	6355	8365	6955	8366
230 V	6351	(no power needed)	8361	6351	6351	8361	(no power needed)	Conversion Kit
Ordering Information	6300	6900	6306	8308	8300	8306 8307	8900	8306-SC/APC
Connector type	Hot Melt Ceramic	Crimplok Ceramic	Epoxy Ceramic	UHT Hot Melt Ceramic	Hot Melt Ceramic	Epoxy Ceramic	Crimplok Ceramic	Epoxy Ceramic
Packaging	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.
Minimum order	60 each	60 each	60 each	60 each	60 each	60 each	60 each	60 each
UPC	054007-91725	054007-92815	054007-91724	051115-15186	051138-57747	054007-91722 054007-91723	051138-75386	051138-87051

*Notes: TIA = TIA/EIA 568B; Telcordia GR-326-CORE

**Other boot colors are available

Specifications for the 3M™ ST Connectors

	Hot Melt		Crimplok™		Epoxy	
	Multimode	Single-mode	Multimode	Single-mode	Multimode	Single-mode
Product Number	6100	8100YS	6901	8901	6105	8106 8107
Connector type	Hot Melt Ceramic	Hot Melt Ceramic	Crimplok Ceramic	Crimplok Ceramic	Epoxy Ceramic	Epoxy Ceramic
Fiber size μm	125	126	125	126	125	126 127
Insertion Loss (dB) typical field mount (one-mated pair) @ 1300 nm	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3
Reflection (dB) typical field mount	-25	-40	-25	-40	-25	-45
Connector durability (dB) change after 500 matings	<0.2	<0.2	<0.3	<0.3	<0.2 / 1000 matings	<0.2
Operating temperature	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-10° to 60°C (14° to 140°F)	-10° to 60°C (14° to 140°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)
Storage temperature	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)
Testing specifications	TIA*	TIA*	TIA*	TIA*	TIA*	TIA*
Material						
Connector ferrule	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic
Connector housing	Nickel plated zinc	Nickel plated zinc	Thermoplastic polymer	Thermoplastic polymer	Nickel plated zinc	Nickel plated zinc
Boot	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer
Flame retardancy	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0
Connector identification**	Blue dot on end of ferrule, White Boot	Blue dot on end of ferrule, Yellow Boot	Black Body Beige Shell Grey Boot	Black Body Beige Shell Blue Boot	Black Backbone	Silver Backbone
Field Termination Kit						
120V	6355	6355	6955	6955	8365	8365
230V	6351	6351	(no power needed)	—	8361	8361
Ordering Information						
Product Number	6100	8100YS	6901	8901	6105	8106 8107
Connector type	Hot Melt Ceramic	Hot Melt Ceramic	Crimplok Ceramic	Crimplok Ceramic	Epoxy Ceramic	Epoxy Ceramic
Packaging	1/pkg, 60/cs.	1/pkg, 60/cs.	1/pkg, 60/cs.	1/pkg, 60/cs.	1/pkg, 60/cs.	1/pkg, 60/cs.
Minimum order	60 each	60 each	60 each	60 each	60 each	60 each
UPC	054007-91141	051138-36650	054007-92813	051138-75388	054007-91144	054007-17772 054007-48716

*TIA/EIA 568B

**Note: Other boot colors are available

3M™ Termination Kits

3M Termination Kits provide the tools and materials necessary to terminate the major fiber optic connectors in the industry today. Kits are available to meet your needs in terminating all kinds of connectors.

3M™ Epoxy Termination Kits

3M Ferrule Epoxy Termination Kits come in both a 120V model (8365) and 230V model (8361). The 8365/8361 kit includes all tools and supplies necessary to terminate all epoxy connectors with a high temperature epoxy that meet Bellcore environmental tests. The 8365/8361 kit also includes a polishing procedure that enables the installer to meet a -40 dB reflection requirement.

3M™ Hot Melt Universal Termination Kits

The Hot Melt Termination Kits 6365 and 6361 contain all materials necessary to terminate 3M™ SC, ST, and FC Hot Melt and Ultra High Temp Hot Melt Connectors. There are also conversion kits that make it easy to incorporate both an epoxy process and a hot melt process into one kit.

The 3M™ Hot Melt Polishing Machine 6850 is a 12-volt DC unit that provides hands-free operation and consistent performance. The machine comes with an ST adapter. FC and SC adapters are available separately.

3M™ Crimplok™ Universal Termination Kits

The Crimplok Termination Kit 6955 provides all the equipment needed to terminate all 3M™ Crimplok™ Connectors.

3M Epoxy Termination Kit

Product Number	Description	Packaging
8365	Universal Epoxy Termination Kit 120 V	1 kit
8361	Universal Epoxy Termination Kit 230 V	1 kit

Replacements for 3M Epoxy Kit

Product Number	Description	Packaging
8365-CK	Epoxy Consumable Kit	1 kit
	Lapping Film, 5 µm (261X)	50 sheets
	Lapping Film, 1.5 µm (661X)	15 sheets
	Lapping Film, 1 µm (262X)	50 sheets
	Lapping Film, 0.05 µm (263X)	50 sheets
	Lint Free Cloths	200 sheets
	8892 Universal Polishing Jig	1 each
	Cleaning Wire, 0.004" diameter	12 each
8365-SK	Epoxy Syringe Kit	1 kit
	Syringe, 3cc	25 each
	Dispensing Tips, Green	25 each
8312	Epoxy Curing Oven (120 V) in 8365 Kit	1 each
8323	Epoxy Curing Oven (230 V) in 8361 Kit	1 each
6365-CT	Universal Crimp Tool	1 each
8365-ST	ST Load Adapter	6 each
8365-SC	SC Load Adapter	6 each
8365-FC	FC Load Adapter	6 each
8365-CS	Epoxy Curing Stand	1 each
8365-PP	Soft Polishing Pad	1 each
8892	Universal Polishing Jig	1 each
8692	Epoxy, Fiber Optic	1 each
6365-FS	Carbide Fiber Scribe	1 each
6365-VS	200x View Scope	1 each
6365-ST	Stripping Tool	1 each
6365-JS	Jacket Stripper	1 each
6365-KS	Kevlar Snips	1 each



3M™ Hot Melt Universal Termination Kit

Product Number	Description	Packaging
6365	UHT Hot Melt Kit 120 V	1 kit
6361	UHT Hot Melt Kit 230 V	1 kit
6355-U	UHT Hot Melt Upgrade Kit	1 each
6156	Conversion Kit (Epoxy to Hot Melt 120 V)	1 each
6157	Conversion Kit (Epoxy to Hot Melt 230 V)	1 each

Replacements for 3M Hot Melt Kit

Product Number	Description	Packaging
6365-CC	Classic Hot Metal Consumable Kit	1 each
	Lapping Film, 2 µm (254X)	200 sheets
	Lapping Film, 0.05 µm (263X)	50 sheets
	Lint Free Cloths	200 sheets
6365-CU	8892 Universal Polishing Jig	1 each
	UHT Hot Melt Consumable Kit	1 each
	Lapping Film, 0.5 µm (661X)	10 sheets
	Lapping Film, Final (863X)	50 sheets
6192-A	Lint Free Cloths	200 sheets
	8892 Universal Polishing Jig	1 each
6312	Lapping Film, One Step (254X)	100 sheets
6323	Hot Melt Oven (120 V) in 6365 kit	1 each
6323	Hot Melt Oven (230 V) in 6361 kit	1 each
6365-CT	Universal Crimp Tool	1 each
6365-UH	Universal Connector Holder	6 each
6191	Hot Melt Cooling Stand	1 each
6365-PP	Polishing Pad, One Step	1 each
8365-PP	Soft Polishing Pad	1 each
8892	Universal Polishing Jig	1 each
6365-FS	Carbide Fiber Scribe	1 each
6365-VS	200x View Scope	1 each
6365-ST	Stripping Tool	1 each
6365-JS	Jacket Stripper	1 each
6365-KS	Kevlar Snips	1 each



6850 Hot Melt Polishing Machine 8

3M™ Hot Melt Auto Polisher

Product Number	Description	Packaging
6850-A	Auto Polisher 120 V (with ST Holder)	1 each
6892	ST Holder for 6850	1 each
6392	SC Holder for 6850	1 each
6292	FC Holder for 6850	1 each
6192-B	Lapping Film, 2 µm, with Hole (254X)	100 each

3M™ Crimplok™ Kit

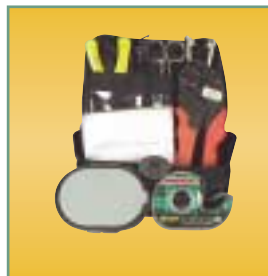
Product Number	Description	Packaging
6955	Crimplok Kit	1 kit

Replacements for 3M Crimplok Kit

Product Number	Description	Packaging
6955-CK	Crimplok Consumable Kit	1 each
	Lapping Film, Crimplok 2 µm (254X)	50 sheets
	Lapping Film, Crimplok SM (263X)	50 sheets
	Lint Free Cloths	200 sheets
	8892 Universal Polishing Jig	1 each
	Cleaning Wire, 0.004" diameter	12 each
6955-LF	Lapping Film, Crimplok 2 µm (254X)	50 sheets
6365-CT	Universal Crimp Tool	1 each
6955-P	Polishing Tool, Crimplok	1 each
8892	Universal Polishing Jig	1 each
6955-T	Activation Tool, Crimplok	1 each
6365-VS	200x View Scope	1 each
6365-ST	Stripping Tool	1 each
6365-JS	Jacket Stripper	1 each
6265-KS	Kevlar Snips	1 each



6955 Crimplok Kit
(components displayed) 9



6955 Crimplok Kit
(components loaded in pouch) 10

3M™ Fiber Optic Couplings, Coupling Plates and Patch Panels

3M couplings are compatible with 3M™ Epoxy, 3M™ Hot Melt, and 3M™ Crimplok™ Connectors and Cable Assemblies. The 3M™ Fiber Distribution System 8400 Series consists of fiber distribution units (FDUs), coupling plates and fiber cable management components. The 8400 series features modular construction for flexible upgrades, customized applications and future expansion. Standard ST,

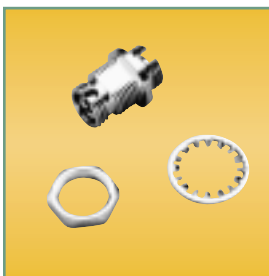
SC, FC coupling plates are available in both single and duplex formats and standard port counts.

The 8400 series also features fiber optic patch panels and a variety of coupling plates. The 3M™ Rack Mount Patch Panel 8423 provides a low-profile (1.75") compact solution to terminate up to 24 optical fibers. The 3M™ Wall Mount Patch Panels 8430 Series bring the features of our rack-mounted 8400 System to wall-mounted building entrance and LAN applications. The 8430 series panels offer efficient use of space, as well as functionality and rugged durability.

Specifications for the 3M™ FC Couplings

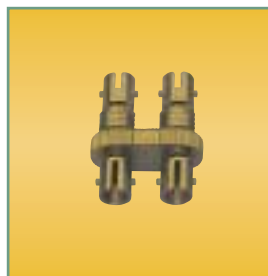
	Multimode	Single-mode		
Product Number	6210	8210	8211	8211 APC*
Housing design	Square Flanged	Square Flanged	D-Mount	D-Mount
Operating temperature	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)
Material Sleeve Housing	Phosphor Bronze Metal	Zirconia ceramic Metal	Zirconia ceramic Metal	Zirconia ceramic Metal
Ordering Information	6210	8210	8211	8211 APC*
Packaging	1/cs.	1/cs.	1/cs.	1/cs.
Minimum order	1 each	1 each	1 each	1 each
UPC	054007-70872	054007-48805	051138-11913	051138-57576

*For PC applications also



FC Coupling

11



ST Coupling

12

Specifications for the 3M™ SC Couplings

	Multimode		Single-mode		
Product Number	6310	6313	8310	8310G	8313
Description	Coupling	Coupling, duplex	Coupling	APC Coupling	Coupling, duplex
Operating temperature	-40° to 85°C (-40° to 185°F)	-40° to 75°C (-40° to 167°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-40° to 75°C (-40° to 167°F)
Material					
Housing	Engineering thermoplastic	Engineering thermoplastic	Engineering thermoplastic	Engineering thermoplastic	Engineering thermoplastic
Sleeve	Phosphor bronze	Phosphor bronze	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic
Color	Beige	Beige	Blue	Green	Blue
Ordering Information	6310	6313	8310	8310G	8313
Packaging	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.	1/pkg., 60/cs.
Minimum order	60 pkgs.	60 pkgs.	60 pkgs.	60 pkgs.	1 pkgs.
UPC	051138-58072	051138-58073	054007-48713	054007-92948	054007-92464

Specifications for the 3M™ ST Couplings

	Multimode		Single-mode	
Product Number	6112	6113	8113	8119
Description	Threaded Coupling	Duplex Threaded Coupling	Duplex Threaded Coupling	Threaded Coupling
Operating temperature	40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)	-40° to 85°C (-40° to 185°F)
Material				
Housing	Nickel plated zinc	Nickel plated zinc	Nickel plated zinc	Nickel plated zinc
Sleeve	Phosphor bronze	Phosphor bronze	Zirconia ceramic	Zirconia ceramic
Ordering Information	6112	6113	8113	8119
Packaging	1/bag, 60/cs.	1/bag, 60/cs.	1/bag, 60/cs.	1/bag, 60/cs.
Minimum order	60 each	60 each	60 each	60 each
UPC	054007-91153	054007-91025	054007-91026	054007-68747

Ordering Information for 3M™ Fiber Distribution System 8400 Series

Product Number	Description	Dimensions H x W x L cm (in.)	Weight kg (lbs.)	Capacity Plates (trays)	Pkg.	Min. Order	UPC
8425	Fiber Distribution Unit	17.7 x 43.1 x 30.4 (7 x 17 x 12)	8.1 (18)	12 (3)	1/cs.	1 each	051138-36618
8425-BP	Fiber Distribution Unit	17.7 x 43.1 x 31.7 (7 x 17 x 12.5)	9 (20)	12 (3)	1/cs.	1 each	051138-36639
8423	Rack Mount Patch Panel	33 x 44.4 x 4.3 (13 x 17.5 x 1.71)	4.0 (8.8)	3 (2)	1/cs.	1 each	051138-58271
8423-EXP	Expander for 8423 Patch Panel	4.1 x 42.5 x 23 (1.6 x 16.7 x 9)	1.1 (2.4)	3 (2)	1/cs.	1 each	051138-58272
8432	Wall Mount Patch Panel	8.12 x 38.6 x 23.4 (3.2 x 15.2 x 9.2)	4.1 (8.9)	2 (0)	1/cs.	1 each	051138-58056
8434	Wall Mount Patch Panel	8.12 x 38.6 x 28.4 (3.2 x 15.2 x 11.2)	5.0 (10.9)	4 (0)	1/cs.	1 each	051138-58057
8436	Wall Mount Patch Panel	8.12 x 38.6 x 38.1 (3.2 x 15.2 x 15.0)	7.6 (16.8)	6 (0)	1/cs.	1 each	051138-58058

Ordering Information for 3M™ Coupling Plates 8400 Series

Product Number	Description	Dimensions H x W x L cm (in.)	Weight gm (oz.)	Min. Order	UPC
8406-TS	6 port ST single-mode	11.9 x 13.9 x 18 (4.7 x 5.5 x 7.1)	85.1 (3.0)	12	051138-36621
8406-TM	6 port ST multimode	11.9 x 13.9 x 18 (4.7 x 5.5 x 7.1)	85.1 (3.0)	12	051138-57527
8406-CS	6 port SC single-mode	11.9 x 13.9 x 18 (4.7 x 5.5 x 7.1)	85.1 (3.0)	12	051138-57411
8406-CM	6 port SC multimode	11.9 x 13.9 x 18 (4.7 x 5.5 x 7.1)	99.2 (3.5)	12	051138-57410
8408-CS	8 port SC single-mode	11.9 x 13.9 x 18 (4.7 x 5.5 x 7.1)	99.2 (3.5)	12	051138-57413
8408-CM	8 port SC multimode	11.9 x 13.9 x 18 (4.7 x 5.5 x 7.1)	99.2 (3.5)	12	051138-57412
8412-DCM	Plate, 12 Port, SC MM, Duplex w/Couplings	25.4 x 15.24 x 5.08 (10 x 6 x 2)	127.6 (4.5)	1	054007-57409
8412-DCS	Plate, 12 Port, SC SM, Duplex w/Couplings	25.4 x 15.24 x 5.08 (10 x 6 x 2)	127.6 (4.5)	1	054007-57418
8499-1W	Single position blank plate	11.9 x 13.9 x 18 (4.7 x 5.5 x 7.1)	28.4 (1.5)	12	051138-57416



8400 Fiber Distribution Unit 13

3M™ Fiber Optic Cable Assemblies

3M provides a variety of single-mode and multimode cable assemblies that are compliant with industry standards. These can be configured as hybrid assemblies, simplex or duplex jumpers or multi-fiber assemblies. 3M™ GGP Cable Assemblies use 3M™ Glass/Glass/Polymer Fiber and are designed to be more durable and flexible than standard cable assemblies.

strength in tension and bending in comparison with conventional fibers. The glass cladding around the core is reduced in size and is coated with a permanent protective polymer, resulting in a standard 125 mm fiber diameter. This provides a quality connection to standard fibers. GGP cable assemblies are ideal for panel-to-panel jumpers, equipment back planes, optical cross-connects and other applications that require reliability, and mechanical strength.

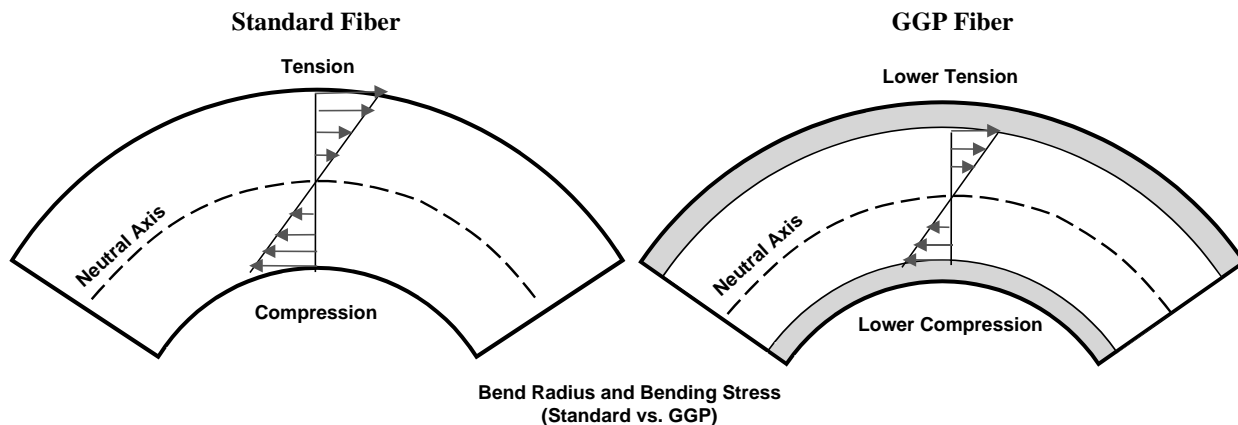
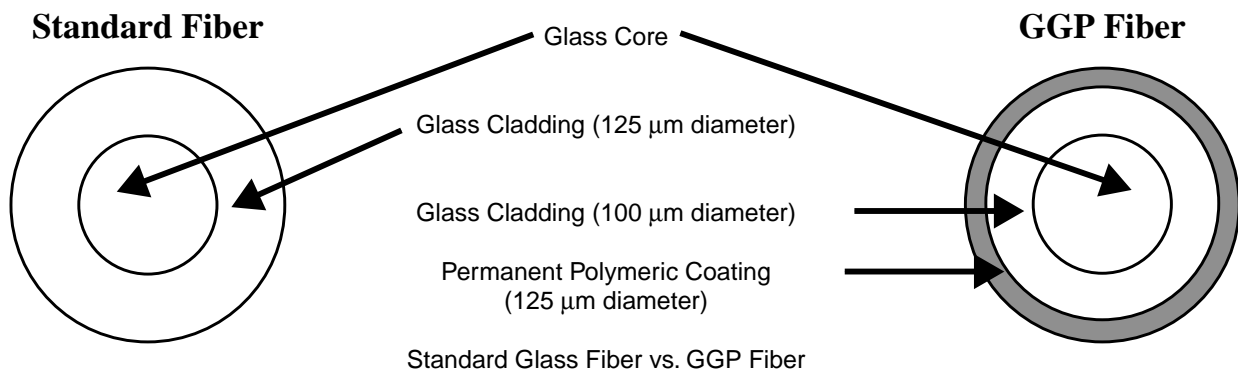
The GGP Standard and Market Adoption

3M GGP (glass/glass/polymer fiber) cable assemblies feature a unique fiber construction that delivers higher

Features and Benefits

GGP cable assemblies are available from 3M with SC, FC, ST and LC connectors.

Tight bend radius	Increased durability and reliability in small spaces
Cable flexibility	Easier to route and manage
Meets TIA/EIA 568-B.3; ISO11801 and EN50173 standards for multimode	Long term reliability
3M developed precision factory mounting	Experienced assemblers and processes enhance both performance and reliability
100% optically tested	Helps low reflectance and low light loss
Multiple combinations of connectors & cables	Ease of connectivity between equipment manufacturers and between different connector interface standards



Optical Cable Specifications for 3M™ Cable Assemblies

Single-mode

Code	Number of Fibers	Cable OD Nominal (mm)	Jacket Color	Loss/max 1300/1550 nm (dB/km)	Bandwidth 850/1300 nm (MHz-km)	Bend Radius (cm)	Tensile Load (Install N)	Cable Weight (kg/km)
Unjacketed								
AU	1	0.9	White	1.0/1.0	N/A	5.0	3	0.9
Jacketed								
AT	1	2.9	Yellow	1.0/1.0	N/A	5.0	500	7.8
BW	2	2.9 x 5.8	Yellow	1.0/1.0	N/A	5.0	1000	14.7
CU	1	2.0	Yellow	1.0/1.0	N/A	5.0	220	3.2
CV	2	2.0	Yellow	1.0/1.0	N/A	5.0	400	6.7
Multi-fiber (900 µm sub-units)								
EA	4	5.2	Yellow	1.0/1.0	N/A	7.5	1000	23
EB	6	5.2	Yellow	1.0/1.0	N/A	7.5	1000	23
GY	12	7.0	Yellow	1.0/1.0	N/A	10.5	1800	53
EC	24	10.6	Yellow	1.0/1.0	N/A	15.9	2700	122
ED	36	14.9	Yellow	1.0/1.0	N/A	22.4	4000	191
EE	72	21.5	Yellow	1.0/1.0	N/A	32.3	5500	320

Multimode

Code	Number of Fibers	Cable OD Nominal (mm)	Jacket Color	Loss/max 850/1300 nm (dB/km)	Bandwidth 850/1300 nm (MHz-km)	Bend Radius (cm)	Tensile Load (Install N)	Cable Weight (kg/km)
62.5/125 µm								
ZJ	1	2.9	Orange	3.5/1.5	500/500	5.0	500	7.0
AX	2	2.9 x 5.8	Orange	3.5/1.5	500/500	5.0	1000	16.0
CQ	1	2.0	Orange	3.5/1.5	500/500	5.0	220	3.2
CR	2	2.0 x 4.0	Orange	3.5/1.5	500/500	5.0	220	6.7
CC (GGP)	2	2.4 x 4.8	Gray	3.5/1.5	500/500	0.95	1000	14.7
62.5/125 µm								
AF	1	2.9	Orange	3.5/1.5	160/500	5.0	500	7.8
AQ	2	2.9 x 5.8	Orange	3.5/1.5	160/500	5.0	1000	15.6
CS	1	2.0	Orange	3.5/1.5	160/500	5.0	220	3.2
CT	2	2.0 x 4.0	Orange	3.5/1.5	160/500	5.0	400	6.7
CA (GGP)	2	2.4 x 4.8	Gray	1.5/NA	200/500	0.95	1000	14.7

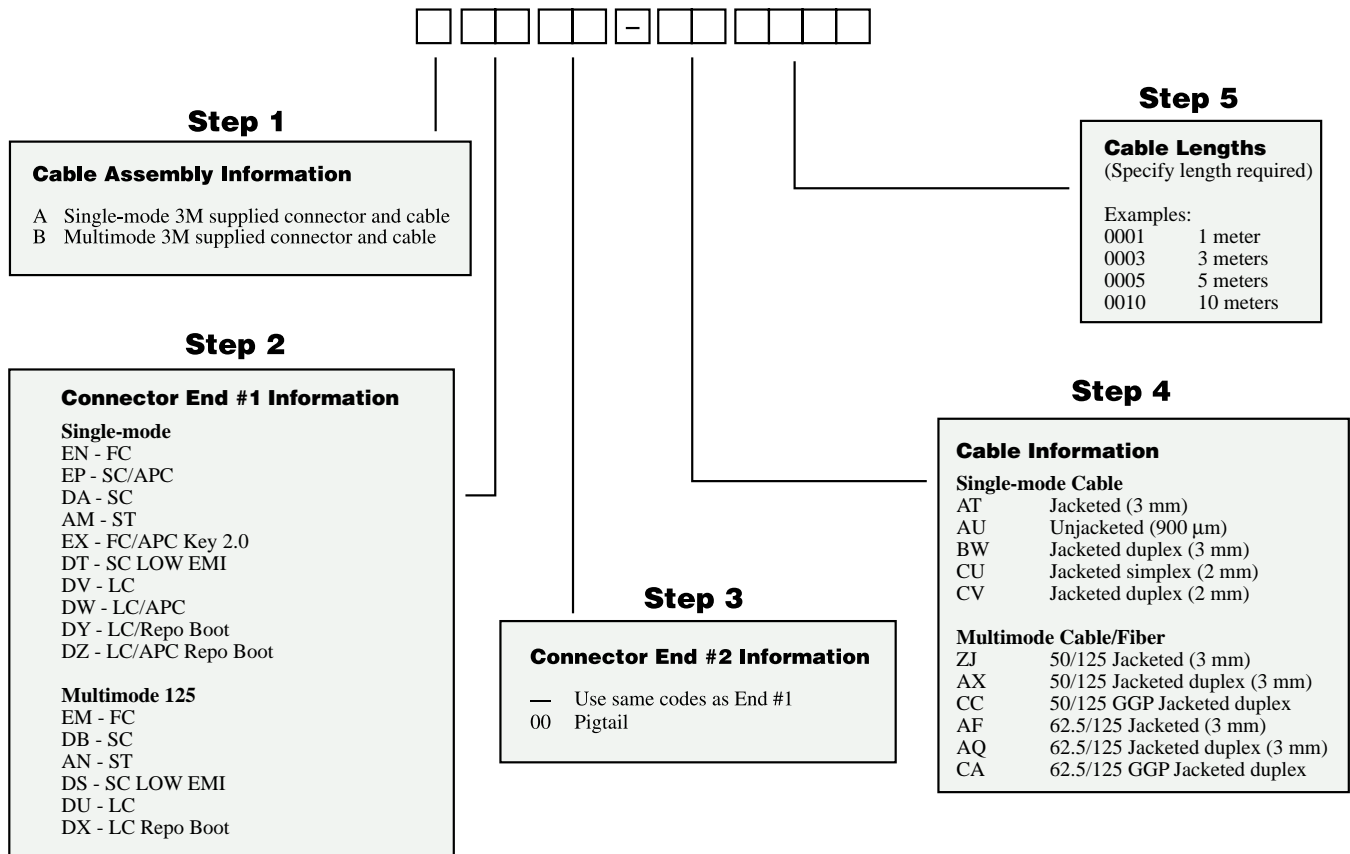
Notes:

1. Cables available in assemblies only.
2. All cables are Riser Rated (OFNR) and meet requirements of UL 1666.

3M™ Standard Jumpers and Pigtails Ordering Chart (Simplex and Duplex)

3M Standard Jumpers and Pigtails Ordering Chart (Simplex and Duplex)

In five easy steps, you can accurately specify your cable assembly.
Establish 3M part numbers by using the following codes.



For additional cables, including multi-fiber or plenum jacket, please call 800/695 0447. Push #1 for ordering department or push #3 for literature.

NOTE: Pigtails must be ordered in multiples of two.

Example: Multimode SC to LC 50/125 GGP Duplex, 10 meters

B D B D U - C C 0 0 1 0

(BDBDU-CC0010)

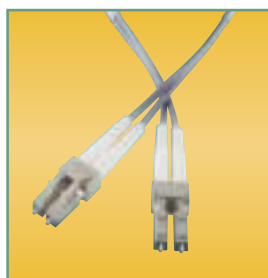
Specifications for 3M™ Fiber Optic Cable Assemblies

Connector	SC	SC Angled	ST	FC	FC Angled 2.0 mm	LC	LC Angled
Insertion Loss (one mated pair)							
Single-mode	0.2 average 0.5 maximum	0.2 average 0.5 maximum	0.2 average 0.5 maximum	0.2 average 0.5 maximum	0.2 average 0.5 maximum	0.1 average 0.25 maximum	0.15 average 0.4 maximum
Multimode	0.2 average 0.3 maximum	–	0.2 average 0.3 maximum	0.2 average 0.3 maximum	–	0.1 average 0.3 maximum	–
Reflection (dB)							
Single-mode	≤-55	≤-70	≤-55	≤-55	≤-70	≤-55	≤-70
Multimode	≤-25	–	≤-25	≤-25	–	≤-25	–
Connection durability (dB) change after 500 matings	<0.2	<0.2	<0.1	<0.2	<0.2	<0.2	<0.2
Operational temperature connector only (cable dependent)	-40° to 85°C (-40° to 185° F)	-40° to 85° C (-40° to 185° F)	-40° to 85°C (-40° to 185° F)	-40° to 85°C (-40° to 185° F)	-40° to 85° C (-40° to 185° F)	-40° to 85° C (-40° to 185° F)	-40° to 85° C (-40° to 185° F)
Storage temperature	-40° to 85°C (-40° to 185° F)	-40° to 85° C (-40° to 185° F)	-40° to 85°C (-40° to 185° F)	-40° to 85°C (-40° to 185° F)	-40° to 85° C (-40° to 185° F)	-40° to 85° C (-40° to 185° F)	-40° to 85° C (-40° to 185° F)
Material							
Connector housing	Engineered resin	Engineered resin	Nickel-plated zinc	Engineered resin	Engineered resin	Engineered resin	Engineered resin
Connector ferrule	Zirconia ceramic	Zirconia ceramic 8° angle	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic 8° angle	Zirconia ceramic	Zirconia ceramic 8° angle
Alignment sleeve							
Single-mode	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic	Zirconia ceramic
Multimode	Metal	–	Metal	Metal	–	Metal	–
Boot	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer	Thermoplastic elastomer
Backbone	Nickel plated brass	Nickel plated brass	Zinc alloy	Nickel plated brass	Nickel plated brass	Nickel plated brass	Nickel plated brass
Flame retardant	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0	UL-94 V-0

Note: Single-mode SC, FC, and LC assemblies are tested to Telcordia GR-326-CORE



LC Single-mode Cable Assembly 14



LC Multimode Cable Assembly 15



ST Multimode Cable Assembly 16

3M™ Fibrlok™ Optical Splice System

3M™ Fibrlok™ Mechanical Splice is a leading mechanical splice and is now specified in fiber-to-the-home projects as a substitute for connectors and couplings. Designed to minimize the need for lengthy training, specialized skills or experience, the 3M™ Fibrlok™ Optical Splicing System is designed with the idea that “simpler is better.” 3M Fibrlok optical splice systems consist of the 3M™ Fibrlok™ II Optical Fiber Splice System 2529 and the 3M™ Fibrlok™ Multi-Fiber Optical Splicing System 2600.

3M™ Fibrlok™ II Optical Fiber Splice 2529

The 3M Fibrlok II Optical Fiber Splice 2529 provides a precise, simple and low cost method of splicing optical fiber. The splice provides permanent, high-performance fiber optic splices for both single-mode and multimode fibers with minimum tooling. The universal optical fiber splice is fast—installation time is 30 seconds or less. No epoxy or electricity is required. Whether your application is aerial, buried, underground or pedestal, the Fibrlok II universal optical fiber splice is an ideal solution, either for outside plant or inside a building.

Features and Benefits

Optical Fiber Splices

High performance, permanent fiber optic splices	Fast—30 second installation time
Splices both single-mode and multimode fibers	Reduced inventory requirements
Single splice for any coating size 250 µm - 900 µm	Reduced inventory
Minimum tooling requirements	Low capital cost
No epoxy or electricity required environment	Easy on-site installation for any splice
A single cleave length for 250 and 900 micron splicing	Increased splicing productivity
The ability to “reposition” fibers	Improved splicing yield
Six splices each in a compact package	Convenience and ease of use

Specifications for 3M Fibrlok II Optical Fiber Splice 2529

Fiber diameter	125 µm
Coating diameter	250 to 900 µm, any combination
Shelf life	30 years
Installation time	<30 seconds after fiber preparation
Mean insertion loss	<0.1 dB
Reflection	<-35 dB from -40° to 80°C (-40° to 176°F) <-55 dB from -40° to 80°C when used with 2650 Angled Cleaver Adapter <-60 dB typical at room temperature
Tensile strength	1.0 lb. minimum; >3.0 lbs. typical
Material	Engineering thermoplastic with aluminum alloy element; UL 94, V-O rating
Operating temperature	-40° to 80°C (-40° to 176°F)
Thermal cycling	Change in insertion loss <0.05 dB, -40° to 80°C (-40° to 176°F)
Fungus resistance	ASTM G-21-70; rating 0
Vibration	EIA standard FOTP-11; test condition 1
Water immersion	Seven days @ 43°C (109°F); change in insertion loss <0.05 dB

3M™ Fiber Splice Preparation Kit 2530

Contains the following components:

- 3M™ Fibrlok™ assembly tool 2501
- Thomas & Betts™ Universal Fiber Optic Cleaving Tool
- No-Nik® fiber stripper (175 µm)
- Micro-Strip™ precision stripper (0.006)
- Miller™ model 100 cable stripper
- Ideal™ coaxial cable stripper
- Clauss™ No. 925 telecommunication snips (scissors)
- 20X magnifier, cleaved fiber
- Bottle (empty) - isopropyl alcohol
- Lint free cloth (100 each)
- Carrying case
- Manual

3M™ Fibrlok™ Angled Cleaver Adapter Kits 2650-ACK2

The 3M Fibrlok angled cleaver adapter kit uses your existing “industry standard” cleaver and 3M technology to achieve low reflection Fibrlok splices for use in all high speed digital and analog fiber optic transmission applications.

The 2650-ACK2 adapter kits are compatible with both the Fujikura™ CT-0x and CT-10x series of high precision fiber optic cleavers. Cleavers are easily and reversibly adapted for angled cleaving in less than 20 minutes.

2650-ACK2 kit components:

Conversion hardware:

- two outside pads
- one hammer

Installation tools:

- one 1.5 mm (0.06") hex wrench
- one 0.9 mm (0.035") hex wrench
- Instructions
- three labels for cleaver indicating conversion
- Extra screws and washers
- Packaging for hardware and installation tools

Ordering Information for 3M™ Fibrlok™ II Optical Splicing System				
Product Number	Description	Packaging	Min. Order	UPC
Splices and Splice Kits				
2529	Universal Optical Fiber Splice 250 to 900 micron, any combination	6/pkg. 10 pkg/cs.	60 each	054007- 92202
2529-K	Universal Optical Fiber Splice Kit (60 Splices, one 2501 Assembly Tool)	1 kit/cs.	1 kit	054007-92415
Tools and Preparation Kits				
2501	Assembly Tool	1/cs.	1 each	054007-57125
2530	Fiber Splice Preparation Kit (includes 2501 Assembly Tool and Thomas & Betts™ Cleaving Tool)	1/cs.	1 kit	054007-70996
2531	Fiber Splice Preparation Kit (without Cleaving Tool)	1/cs.	1 kit	054007-71107
2533	Fiber Splice Preparation Kit (without 2501 Assembly Tool; without Cleaving Tool)	1/cs.	1 kit	054007-71105
2650-ACK2	Angled Cleaver Adapter	1/cs.	1 kit	054007-11475
Trays				
2524	Optical Fiber Splice Organizer Tray	3/cs.	3 each	051138-11514
2521-FL	Fibrlok Splice Insert used in 2522/2523 trays	2/pkg, 12/pkg/cs.	12 each	051138-36413
2521-MF	Fibrlok Multi-Fiber Splice Insert used in 2522/2523 trays	2/pkg, 12/pkg/cs.	12 each	051138-36411

3M™ Fibrlok™ Multi-Fiber Optical Splicing System 2600

The 3M™ Fibrlok™ Multi-Fiber Optical Splice uses the same field-proven Fibrlok Splice technology to provide fast, efficient and permanent splicing of multiple optical fibers.

The Fibrlok multi-fiber splicing system consists of a consumable splice “module” and associated fiber preparation and splicing tools. Splices are available in 4-, 8-, and 12-fiber versions, for both fiber optic ribbon and “ribbonized” fibers, and can be assembled in less than five minutes. This makes the Fibrlok multi-fiber splice ideal for both new construction and cable restoration applications.

3M™ Fibrlok™ Multi-Fiber Optical Splicing System 2600 Specifications

Fiber diameter	125 µm
Coating diameter	250 µm; ribbon construction or individually coated fiber
Shelf life	30 years
Installation time	<5 minutes including preparation (stripping, cleaving, splice assembly)
Mean insertion loss	<0.1 dB
Reflection	<-35 dB from -40° to 80°C (-40° to 176°F) <-55 dB from -40° to 80°C when used with 2650-ACK2 Angled Cleaver Adapter <-60 dB typical at room temperature when used with 2650-ACK2 Angled Cleaver Adapter
Tensile strength	1.0 lb. per individual fiber joint minimum; >3.0 lb. per fiber joint typical
Material	Engineering thermoplastic with aluminum alloy element
Operating temperature	-40° to 80°C (-40° to 176°F)
Thermal cycling	Change in insertion loss <0.05 dB, -40° to 80°C (-40° to 176°F)
Fungus resistance	ASTM G-21-70, rating 0
Vibration	EIA standard FOTP-11; test condition 1
Water immersion	Seven days @ 43°C; change in insertion loss ≤0.05 dB



2530 Fiber Splice Preparation Kit 17



2600 Multi-Fiber Optical Splicing System 18



2529 Optical Fiber Splice 19



3M™ Fibrlok™ Splice Preparation Kit 2600 Components*

Product Number	Description
2620	Multi-Fiber Optical Splice Actuator Tool
2622	Multi-Fiber Pen Light Assembly
2630	Multi-Fiber Stripper Handle Assembly
2631	Multi-Fiber Stripper Wall Plug Transformer (110V)
2634	Multi-Fiber Stripper Tube Guide (12 fiber, bonded)
2635	Multi-Fiber Stripper Tube Guide (12 fiber, AT&T ASR ribbon)
2652-A	Multi-Fiber Cleaver Spacer Gauge Assembly
2653	Multi-Fiber Holder Assembly (12 fiber, AT&T ASR ribbon)
2654	Multi-Fiber Holder Assembly (12 fiber, bonded)
2651	Fiber Viewer Assembly (For Alcoa Fujikura Cleaver)
05-00017	Lint Free Cloths, 4" x 4"

*The kit does not include the required Alcoa-Fujikura (Model CT-03, CT-04, CT-04B, or CT-07) or Sumitomo (Model FC-4) Fiber Cleaver.

3M™ Fibrlok™ Multi-Fiber Optical Splicing Kits 2600

The 3M™ Fibrlok™ Multi-Fiber Splice Preparation Kit 2600 provides the components required to assemble the multi-fiber splice. The 3M™ Fibrlok™ Ribbon Construction Tool

2670 provides organization and “ribbonizing” of individual 250-micron coated fibers prior to splicing. The Fibrlok multi-fiber splice assembly tooling is designed to minimize the required tooling investment. These lightweight and portable tools are perfect for splicing in buried, underground, aerial, vault or pedestal splice locations.



2600 Multi-Fiber Splice Preparation Kit 20



2670 Ribbon Construction Kit 21

Ordering Information for 3M™ Fibrlok™ Multi-Fiber Optical Splicing System 2600

Product Number	Description	Packaging (each)	Min. Order
Splice Preparation Kits			
2600	Multi-Fiber Optical Splice Preparation Kit	1/cs.	1 kit
2601	Multi-Fiber Optical Splice Preparation Kit (220V)	1/cs.	1 kit
Angled Cleaver Adapter Kit			
2650-ACK2	Angled Cleaver Adapter Kit	1/cs.	1 each
12-Fiber Splice and Components			
2612	Multi-Fiber Optical Splice (12 fiber)	3/pkg.; 12 pkg./cs.	1 case
2653*	Multi-Fiber Holder Assembly (12 fiber, AT&T ASR)	2/set; 1 set/cs.	1 set
2654*	Multi-Fiber Holder Assembly (12 fiber, bonded)	2/set; 1 set/cs.	1 set
2655	Multi-Fiber Holder Assembly (12 fiber, encapsulated)	2/set; 1 set/cs.	1 set
2634*	Multi-Fiber Stripper Tube Guide (12 fiber, bonded)	1/cs.	1 each
2635*	Multi-Fiber Stripper Tube Guide (12 fiber, for AT&T ASR Ribbon)		
8-Fiber Splice and Components			
2608	Multi-Fiber Optical Splice (8 fiber)	3/pkg.; 12 pkg./cs.	1 case
2658	Multi-Fiber Holder Assembly (8 fiber, bonded)	2/set; 1 set/cs.	1 set
2659	Multi-Fiber Holder Assembly (8 fiber, encapsulated)	2/set; 1 set/cs.	1 set
2639	Multi-Fiber Stripper Tube Guide (8 fiber, bonded)	1/cs.	1 each
2640	Multi-Fiber Stripper Tube Guide (8 fiber, encapsulated)	1/cs.	1 each
4-Fiber Splice and Components			
2604	Multi-Fiber Optical Splice (4 fiber)	3/pkg.; 12 pkg./cs.	1 case
2664	Multi-Fiber Holder Assembly (4 fiber, bonded)	2/set; 1 set/cs.	1 set
2665	Multi-Fiber Holder Assembly (4 fiber, encapsulated)	2/set; 1 set/cs.	1 set
2645	Multi-Fiber Stripper Tube Guide (4 fiber, bonded)	1/cs.	1 each
2646	Multi-Fiber Stripper Tube Guide (4 fiber, encapsulated)	1/cs.	1 each
Spare Parts			
2620	Multi-Fiber Optical Splice Actuator Tool	1/cs.	1 each
2622	Multi-Fiber Pen Light Assembly	1/cs.	1 each
2630	Multi-Fiber Stripper Handle Assembly	1/cs.	1 each
2631	Multi-Fiber Stripper Wall Plug Transformer (110 V)	1/cs.	1 each
2631-A	Multi-Fiber Stripper Wall Plug Transformer (230 V)	1/cs.	1 each
78-8079-7875-0	Multi-Fiber Stripper Replacement Blades	1 set/cs.	1 case
78-8079-7876-8	Multi-Fiber Stripper Heater Element	1/cs.	1 each
2651	Fiber Viewer Assembly (for use with Alcoa-Fujikura Cleaver)	1/cs.	1 each
05-00017	Lint Free Cloths, 4" x 4"	100/pkg.	1 pkg.
Ribbon Construction Kit and Spare Parts			
2670	Multi-Fiber Ribbon Construction Tool	1/cs.	1 each
2671	Fiber Optic Ribbon Construction Tool	100 strips/pkg.	1 pkg.
78-8079-7686-1	Blade and Mount Assembly, Multi-Fiber Ribbon Construction Tool	1/cs.	1 each

Notes: The Fibrlok Multi-Fiber Optical Splice Preparation Kit 2600 does not include the required Alcoa-Fujikura™ (Model CT-03, CT-04, CT-04B, CT-07) or Sumitomo™ (Model FC-4) fiber cleaver. "Bonded" components are used when splicing edge-bonded ribbon construction (e.g. AT&T™ Accuribbon, Alcatel™ Uniribbon), or when splicing "ribbonized" 250 micron coated fibers. "Encapsulated" components are used when splicing encapsulated ribbon (e.g. NTT 4- and 8-fiber ribbon). "ASR" refers to AT&T™ Adhesive Sandwich Ribbon construction.



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