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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

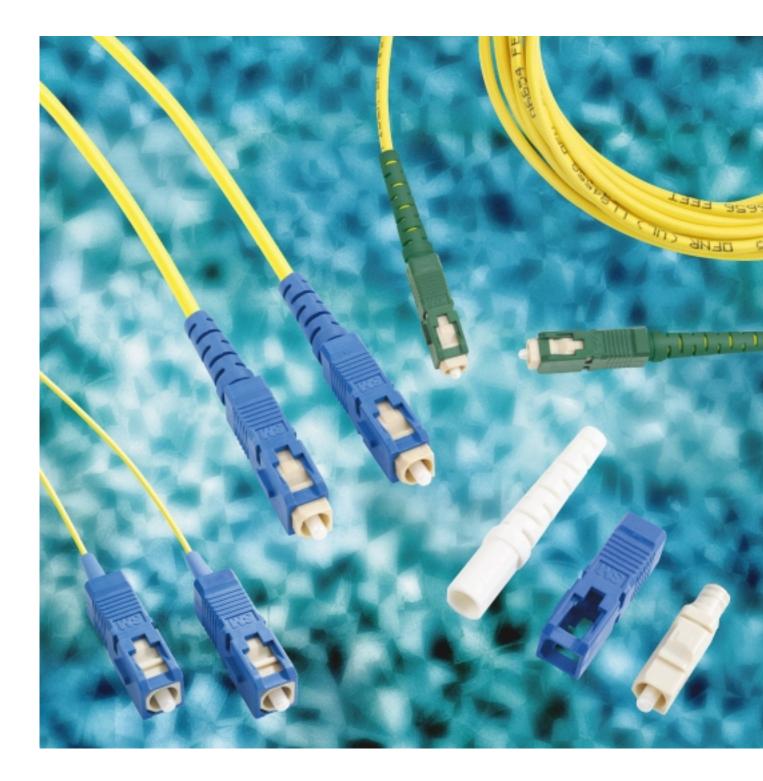


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3M SC Connectors and Accessories



A Family of SC Connectors

3M offers a full line of SC Connectors, including Epoxy, Hot Melt, Crimplok[™], Low EMI, and Angled Polished Connectors, to meet all your connector needs. 3M has simplified the design of the SC Connector to enhance performance and cable retention and provide readily field mountable connectors.



SC Connector

The connector is fully compliant with NTT, JIS, ISO/IEC and TIA/EIA component and ISO/IEC, CENELEC, ANSI, TIA/EIA-568A and BICSI system and cabling level standards. The $3M^{\text{TM}}$ SC Connector has a rectangular push-pull coupling mechanism for easy insertion and high repeatability. The zirconia ceramic ferrule, with a proprietary PC finish assures low attenuation and can now minimize reflected power to -55 dB on factory polished single-mode cable assemblies.

The SC Connector is designed for the most advanced fiber optic systems requiring exceptional stability, low reflections (single-mode) and high density. This versatile connector offers easy installation in both long and short transmission lines, subscriber networks or premises environments.

The 3M Field-Mountable Connector maximizes termination yield through ease of mounting and a high performance polishing procedure. The extended ferrule collar assembly ensures that the adhesive encapsulates the end of the buffer without wicking or spreading. The four-piece design (connector, shell, crimp ring and boot) is mounted using the same simple process used for other 3M connectors.

The 3M SC Low EMI Connector has unique material, which minimizes electromagnetic interference for routers and switches and test bed applications.

The SC Epoxy and Low EMI Connectors are available in single-mode and multimode utilizing epoxy adhesive. The SC Hot Melt Connector, available in single-mode and multimode, is preloaded with Hot-Melt adhesive, enabling a field termination in less than two minutes for multiple terminations.

The SC Crimplok™ Connector, also available in both single-mode and multimode, combines the speed of non-adhesive connectors with the performance characteristics of epoxy and hot melt connectors.

The SC Hot Melt and Crimplok Connectors are specifically intended for ease of termination in local area network and meet requirements of system and cabling level standards.

3M also offers the following to help ensure you meet any and all of your connector needs.

A variety of distribution units are available to accommodate the SC design.

For high cable assembly applications, try the 3M Fiber Optic Bulk Pack. Consisting of 1,000 connectors, boots and accessories, the 3M Bulk Pack dramatically decreases assembly time and cost.

3M offers a standard 1.5" boot, as well as shorter 1.1" boots for high density, confined space applications.

2.0 mm boots for smaller jacket sizes ranging from 1.6 mm to 2.0 mm and buffer boots for 900 µm buffered fiber are also available.



SC Hot Melt Connector

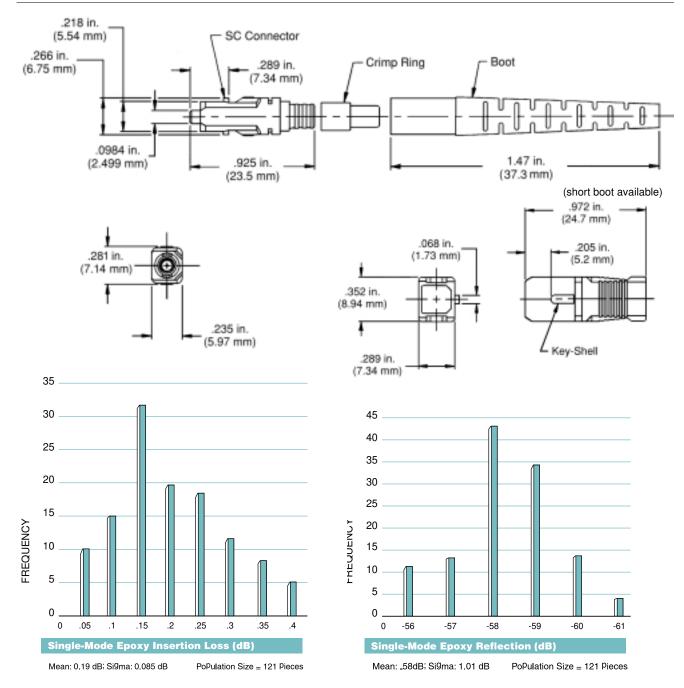
All 3M SC Connectors are available without the 3M logo for private labeling.

SC Connectors and Cable Assemblies

Features	Benefits	
Intermateable within NTT specifications	No retrofit, compatibility issues	
Push pull mating	High density, repeatable connections	
Pull-proof (independent) ferrule	Maintains optical contact	
3M PC finish	Excellent transmission performance	
Zirconia ceramic ferrule	Reduces reflectance problems Factory polish to –55 dB reflections (single-mode epoxy only)* Field polish to –45 dB reflections (single-mode epoxy only)*	
Thermoplastic shell	Corrosion resistant	
Fewer parts	Fast, simple termination	

Hot Melt Version Only (in addition to above)

Pre-loaded Hot Melt adhesive	Extended shelf life, fewer consumables (saves money)
No waiting for epoxy to cure	Termination in 2 minutes (productivity)
Single step polish	Only one abrasive to buy; faster polishing (reduces cost)

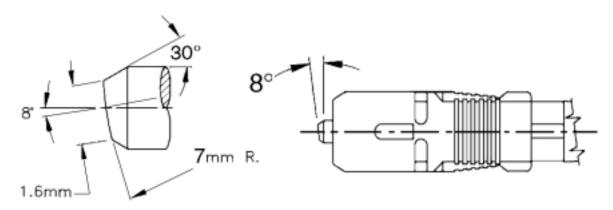


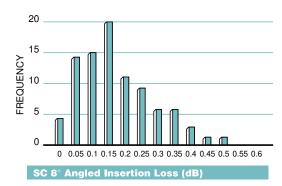
SC 8° Angled PC Cable Assemblies

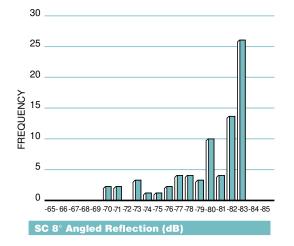
Features	Benefits
8° Angle polish on ferrule (patents issued US 5,351,327, US 5,458,582, US 5,321,784)	Low reflections, mated or unmated; intermateable with other SC 8° angled connectors meeting industry standards
Contacting fibers	Low, stable insertion loss
Isolated ferrule design	Not affected by cable disturbance
Push-pull mating (SC)	High density, repeatable connections
Zirconia ceramic ferrule	Durable, compliant material
Thermoplastic shell	Corrosion resistant

SC 8° Angled PC Cable Assemblies, Single-mode

In order to meet the system requirements of the cable TV industry and other high-speed digital systems, 3M has developed a single-mode SC 8° angle-polished connector to minimize reflections to a mean of -80 dB.







Specifications for SC Connectors

	Multimode			Single-mode			
Product Number	6300	6900	6306	8300	8306 8307	8900	8306-APC
Connector type	Hot Melt	Crimplok™	Ероху	Hot Melt	Ероху	Crimplok	Ероху
Fiber size (µm)	125	125	125	126	126 127	126	126
Fiber attenuation (dB) Field mount @ 1300 nm	<0.2 typical (62.5/125 µm fiber)	<0.2 typical (62.5/125 µm fiber)	<0.2 typical (62.5/125 µm fiber)	<0.2 typical	<0.3 typical	<0.2 typical	<0.3 typical
Reflection (dB) Field mount	≤-25 typical	≤-27 typical	≤-25 typical	≤-25 typical	≤-45 typical	≤-40 typical	≤-65 typical
Connection durability (dB), after 500 matings	<0.2 change	<0.22 change	<0.2 change	<0.2 change	<0.2 change	<0.22 change	<0.2 change
Operating temperature Connector only (cable dependent)	-40° to 60°C (-40° to 140°F)	-10° to 60°C (14° to 140°F)	-40° to 85°C (-40° to 185°F)	-40° to 60°C (-40° to 140°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 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 (in service) Straight pull Side pull	<0.5 dB increase at 7.5 lbs. <0.5 dB increase at 3 lbs.	<0.5 dB increase at 20 lbs. <0.5 dB increase at 3 lbs.	<0.5 dB increase at 7.5 lbs. <0.5 dB increase at 3 lbs.	<0.5 dB increase at 7.5 lbs. <0.5 dB increase at 3 lbs.	<0.5 dB increase at 7.5 lbs. <0.5 dB increase at 3 lbs.	<0.5 dB increase at 20 lbs. <0.5 dB increase at 3 lbs.	<0.5 dB increase at 7.5 lbs. <0.5 dB increase at 3 lbs.
Material Connector ferrule Connector body & housing Boot	Zirconia ceramic Engineering Thermoplastic Elastomer resin	8° angle Zirconia ceramic Elastomer resin					
Flame retardancy	UL-94 V-0	UL-94 V-0					
Connector identification Body Outer shell Boot	Black Beige White	Black Beige Black	Beige Beige Beige	Black Blue White	Beige Blue White	Black Blue Black	Beige Green Green
Field Termination Kit 120 V 230 V	6355 6351	6955 (no power needed)	8365 8361	6355 6351	8365 8361	6955 (no power needed)	8366 Conversion Kit

Use 3M Universal Termination Kits for an organized, quick installation

The 8365/8361 kit includes all tools and supplies necessary to terminate all epoxy connectors with a high temperature epoxy to meet Bellcore environmental tests.

The 8365/8361 kit also includes a polishing procedure that enables the installer to meet a -40 dB reflection requirement.

The 8366 SC APC conversion kit includes a polishing procedure that enables the installer to meet a -65 dB reflection requirement.

The 6355/6351 Hot Melt termination kit will provide all the equipment needed to terminate all 3M Hot Melt connectors.

The 6955 Crimplok[™] termination kit provides all the equipment needed to terminate all 3M Crimplok connectors.

Ordering Guide

Description	Product Number	Packaging
Field-mountable connectors		
Single-mode/Epoxy (126μm)	8306	1/pkg., 60/cs.
Single-mode/Epoxy (127µm)	8307	1/pkg., 60/cs.
Single-mode/Hot Melt (126µm)	8300	1/pkg., 60/cs.
Single-mode APC Epoxy (126µm)	8306-APC	1/pkg., 60/cs.
Single-mode Low EMI (blue boot)	8309-U	1/pkg., 60/cs.
Single-mode Low EMI (white boot)	8309-W	1/pkg., 60/cs.
Single-mode Crimplok™ (126μm)	8900	1/pkg., 60/cs.
Multimode/Epoxy (125µm) Multimode/Hot Melt (125µm)	6306 6300	1/pkg., 60/cs. 1/pkg., 60/cs.
Multimode Low EMI (beige boot)	6309-BE	1/pkg., 60/cs. 1/pkg., 60/cs.
Multimode Low EMI (white boot)	6309-W	1/pkg., 60/cs.
Multimode Crimplok™ (125µm)	6900	1/pkg., 60/cs.
Cable assembly*	DA	1/0/00 1/00
Single-mode, connector code	EP	1/pkg., 1/cs.
Single-mode, 8° angle		1/pkg., 1/cs.
Single-mode Low EMI	DT	1/pkg., 1/cs.
Multimode, connector code	DB	1/pkg., 1/cs.
Multimode Low EMI	DS	1/pkg., 1/cs.
Couplings		
Single-mode simplex	8310	1/pkg., 60/cs.
Single-mode duplex	8313	1/pkg., 60/cs.
Single-mode APC	8310-G	1/pkg., 60/cs.
Multimode simplex	6310	
Multimode duplex	6313	
Complete universal termination kits		
Single-mode and Multimode		
ST, SC & FC Termination Kit,		
120V Oven, Epoxy	8365	1/each, 1/cs.
Single-mode and Multimode		, , , , , , , , , , , , , , , , , , , ,
ST, SC & FC Termination Kit,		
230V Oven, Epoxy	8361	1/each, 1/cs.
SC Angled Polished Connector Conversion Kit	8366	1/each, 1/cs.
Hot Melt Fiber Optic Termination Kit,		., easily ., est
ST, SC & FC 120V Oven	6355	1/each, 1/cs.
Hot Melt Fiber Optic Termination Kit,		
ST, SC & FC, 230V Oven	6351	1/each, 1/cs.
Crimplok Fiber Optic Termination Kit	0001	1/0001, 1/00.
ST & SC Single-mode & Multimode	6955	1/each, 1/cs.
The set of	0000	1/04011, 1/03.

* Please refer to cable assembly ordering guide, or price book for complete part numbers

Ordering Information

To order, specify the correct product number from the Ordering Guide chart. For more information, please contact a 3M sales representative 800/426/8688.

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