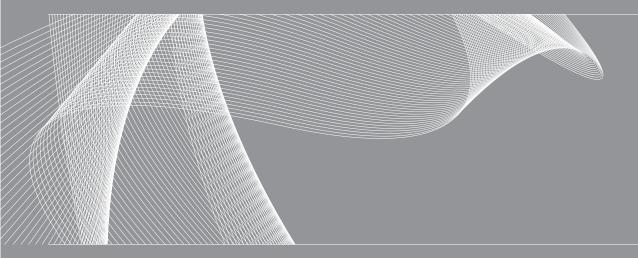


INTERCONNECT CATALOGUE



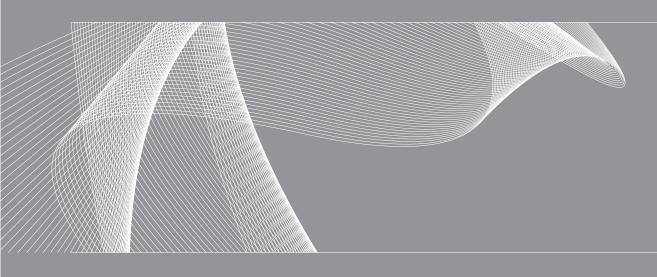


SENKO Advanced Components is a recognized leader in the design, manufacturing, sales, marketing and distribution of over 1000 fiber optic products for the global telecom and datacom industries. Our experience in fiber optics dates back to the earliest days of development for this superior communications technology. We currently maintain a number of strategically located manufacturing centers, offices, and warehouses, which serve the demanding requirements of today's rapidly changing fiber optic markets throughout the Americas, Europe, Asia and Asia-Pacific.

SENKO offers its customers a full range of standard products, the technical expertise to liaise with engineers, and the capability to develop customized products for unique applications. We back our products with long-term warranties together with extensive mechanical and environmental testing. Moreover, SENKO is able to provide sourcing, inspection, packaging, and logistic services to manufacturers of high-tech communications systems.

An ISO-9001 registered company, we maintain one of the largest product portfolios of its kind—at a level of quality that is second to none. For more information about SENKO, please visit our website at www.senko.com.

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CONNECTOR & ADAPTER SUBCOMPONENTS	pg. 44
POLISHING SYSTEMS	pg. 50



STANDARD CONNECTOR SERIES

ς(₋ μ(Premium	Connector
	I ICIIIIuiii	Connection

SC-APC Premium Connector

- SC Standard Connector
- SC Connector Kit
- SC Duplex Clip
- SC XP Fit Plus Connector
- SC Simplified
- SC Crimp Tool
- SC Adapter Series
- FC Premium Connector
- FC APC Premium Connector
- FC Standard Connector
- FC Adapters
- ST Premium Connector
- ST Standard Connector
- SI Adapter

IIN Connector & Adapter

D4 Connector

D4 Adapter

E 2000 Connector

E 2000 Lever

E 2000 Crimpset

E 2000 Accessories

E 2000 Adapters & Frames

SMA Connector

SMA Adapte

Connector Boots



SC Connector

The SC or Subscription Channel connector uses a push-pull system and have become known as an industry standard connector because of their many advantages.

The SC connector push pull system was originally developed by NTT, and is characterized by an audible click heard when the connector is mated with the adapter, signaling it is locked and preventing rotational misalignment.

Made of mostly plastic components, the SC offers a less expensive option that is just as durable and can be used in a variety of applications including CATV, Active Device Terminiations, LANs, Telecommunication networks and WAN's. The SC connectors are available with single mode physical contact (PC), angled physical contact (APC), and Multi-mode physical contact (PC) ferrules. The SC connector and adapter come in a variety of colors including industry standard blue green, and beige.

SPECIFICATION		SINGLEMODE	MULTIMODE
	Premium Connector UPC	0.08dB Typical	0.15dB
Insertion Loss	Premium Connector APC	0.10dBTypical	
	Standard Connector	0.12dBTypical	0.20dB
Return Loss		≥ 55dB typical (PC)	
netuiii Loss		≥ 68dB typical (APC)	
Durability		<0.1dB typical change, 500 matings*	<0.1dB typical change, 500 matings*
Operating Tempera	nture	-40°C to +75°C	-40°C to +75°C
Ferrule Hole Sizes		126μm +1/-0 Concentricity: ≤ 1μm	127μm (MM)
(Custom sizes availab	lo)	125μm +1/-0 Concentricity: ≤ 1μm	144μm (MM)
(Custoiii sizes avallab	ie)	125.5μm +1/-0 Concentricity: ≤ 1μm	230μm (MM)

^{*} Using SM fiber cable assembly. Specifications shown above were obtained using SENKO recommended products and procedures.

SC Premium 1 PC Connector 900 µm Premium 2.0mm Premium 3.0mm Premium

ONNECTOR	FERI	RULE I.D.	HOU	USING	B00	Т	BOC	T COLOR	
54 Premium	191	SM: 125.5μm	6	Blue	1	3.0mm Cable Standard	1	Blue	
	192	SM: 126μm	7	Black	2	900µm Fiber Short	2	Black	
	193	SM: 125μm	8	Red	3	2.0mm Fiber	3	Green	
	291	MM: 127μm	9	Beige	4	3.0mm Cable Short	4	Red	
	292	MM: 230μm			5	2.4mm Cable Short	5	Gray	
	293	MM: 144μm			6	2.0mm Cable Short	6	Yellow	
					7	3.0mm Premium (Telcordia)	7	White	
					8	900µm Premium (Telcordia)	8	Beige	
					9	2.0mm Cable Standard	1		
					Α	2.0mm Premium (Telcordia)			
					В	900µm Fiber Boot			
ORDER CODE example:. 254 - 191 - 671									

APPLICATIONS

- CATV
- Metro
- Active device termination
- Test equipment
- Telecommunication networks
- Local Area Networks (LANs)
- Data processing networks
- Premise installations
- Wide Area Networks (WANs)
- Industrial, medical & military

FEATURES

- Compliance with Telcordia, TIA/IEA, IEC and JIS
- interface specifications
- Low insertion loss & back reflection*
- Tunable with Senko tuning tool
- One-piece construction
 & pull-proof design
- Free-floating ceramic ferrule
- Precision anti-rotation key and corrosion resistant body
- UL-rated plastic housing and boots in a variety of colors
- Telcordia style boots
- Adapters with choice of metal or plastic housing, mount styles & flange options

Note:

Add 1.6 to order code to specify crimp ring for 1.6mm cable option. Custom configurations available upon request. SC Connectors come standard with SENKO logo housing unless otherwise noted.



SC-APC Premium

1 PC Connector



FERRULE TYPE FERRULE 1.0		RULE I.D.	D. POLISH			T			
291	Step	191	SM: 125.5μm	1	No Angle	1	3.0mm Cable Standard		
294	Conical	192	SM: 126µm	2	8° Pre-Angle	2	900µm Fiber Short		
		193	SM: 125µm			3	2.0mm Fiber		
						4	3.0mm Cable Short		
						5	2.4mm Cable Short		
						6	2.0mm Cable Short		
						7	3.0mm Premium (Telcordia)		
						8	900µm Premium (Telcordia)		
						9	2.0mm Cable Standard		
						Α	2.0mm Premium (Telcordia)		
						В	900µm Fiber Boot		
	ORDER CODE example:. 294 - 191 - 24								

SC Standard

1 PC Connector



CON	NECTOR	FERI	RULE I.D.	HOU	SING	B00	T	B00	T COLOR
231	Pre-assembled	191	SM: 125.5μm	6	Blue	1	3.0mm Cable Standard	1	Blue
232	Unassembled	291	MM: 127μm	7	Black	2	1.0mm Fiber (Buffer) Boot	2	Black
				9	Beige	9	2.0mm Cable Standard	4	Red
								6	Yellow
								8	Beige
		ORD	ER CODE example:.		231 - 1	91	- 621		

APPLICATIONS

- CATV
- Metro
- Active device termination
- Test equipment
- Telecommunication networks
- Local Area Networks (LANs)
- Data processing networks
- Premise installations
- Wide Area Networks (WANs)
- Industrial, medical & military

FEATURES

- Compliance with Telcordia, TIA/IEA, IEC and JIS
- interface specifications
- Low insertion loss & back reflection*
- One-piece construction & pull-proof design
- Free-floating ceramic ferrule
- Precision anti-rotation key and corrosion resistant body
- The SC-APC Premium is tunable with Senko tuning tool
- UL-rated plastic housing and boots in a variety of colors
- Telcordia style boots
- Adapters with choice of metal or plastic housing, mount styles & flange options

Note:

Custom configurations available upon request. SC Connectors come standard with SENKO logo housing unless otherwise noted.



SC Connector Kit

NTT Style



CODI	OUT	ER HOUSING	B00	ТТҮРЕ	BOO	OT COLOR			
132	A11	Blue with White line	7	3mm Cable Long	1	Blue			
	B11	Black with White Line	9	2mm Cable Long	2	Black			
	C11	Beige with White Line	D	900µm Slotted Fiber Boot	3	Green			
	D11	Green with White Line			4	Red			
					8	Beige			
	ORDER CODE example:. 132 - A11 - D1								
		ONDER CODE Exal	npie.	132 - ATT - DT					

SC Duplex Clip







SC Duplex Clip Standard

CO	CODE			OR
22	4	SC Duplex Clip for Premium Connector	591	Black
27	4	SC Duplex Clip for Standard Connector	592	Green
			593	Blue
			594	Beige
			595	Red
		ORDER COI	ample:. 274 - 595	

APPLICATIONS

- CATV
- Metro
- Active device termination
- Test equipment
- Telecommunication networks
- Local Area Networks (LANs)
- Data processing networks
- Premise installations
- Wide Area Networks (WANs)
- Industrial, medical & military

FEATURES

- Compliance with Telcordia, TIA/IEA, IEC and JIS
- interface specifications
- Low insertion loss & back reflection*
- Pull-proof design
- Free-floating ceramic ferrule
- Precision anti-rotation key and corrosion resistant body
- UL-rated plastic housing and boots in a variety of colors
- Telcordia style boots
- Adapters with choice of metal or plastic housing, mount styles & flange options

Note:

The outer housing will come with a SENKO logo.

Note

SC Duplex Clip Premium works only with connectors 254, 291, and 294. The Standard works with all others SC



XP Fit Plus

SC Field Installable Connector

The XP Fit Plus is a pre-polished, pre-assembled connector compatible with the standard SC connector. In place of epoxy, an internal mechanical grip gently but effectively holds the fiber in place and can be installed in under two minutes. Without polishing or adhesives, the XP Fit Plus makes field installations quick and easy, eliminating the need for epoxy curing and hand polishing at the work site. The XP Fit Plus comes with an assembling jig and fiber holder, making for an accurate alignment and fiber cleave when terminating the connector.

ASSEMBLY PROCEDURE

- NO EPOXY
- NO POLISHING



2 - Inserting Fiber



3 - Take out Connector



SPECIFICATION	SINGLEMODE	MULTIMODE			
Insertion Loss	0.2dB typical (PC) and 0.3dB typical (APC)	0.1dB typical			
Return Loss	55dB typical (PC) 60dB typical (APC)	35dB typical			
Durability	<0.1dB typical change, 500 matings*	<0.1dB typical change, 500 matings*			
Operating Temperature	-40°C to +75°C	-40°C to +75°C			
Tensile	TIA/EIA 568-B.3				
Intermateability	IEC 61754-4				

^{*} Using SM fiber cable assembly. Specifications shown above were obtained using SENKO recommended products and procedures.

XP Fit Plus

SC Field Installable Connector



PART NUMBER	DESCRIPTION	HOUSING	BOOT COLOR
318-191-627	XPFit Plus SC Connector SM PC 900μm	Blue	White
318-091-427	XPFit Plus SC Connector SC APC 900µm	Green	White
318-291-727	XPFit Plus SC Connector MM 50/125 900µm	Black	White
318-391-927	XPFit Plus SC Connector MM 62.5/125 900μm	Beige	White
318-491-527	XPFit Plus SC Connector MM 50/125 10G 0M3 900μm	Aqua	White

PART NUMBER	DESCRIPTION	HOUSING	BOOT COLOR
318-191-617	XPFit Plus SC Connector SM PC 250µm	Blue	White
318-091-417	XPFit Plus SC Connector SM APC 250µm	Green	White
318-291-717	XPFit Plus SC Connector MM 50/125 250µm	Black	White
318-391-917	XPFit Plus SC Connector MM 62.5/125 250µm	Beige	White
318-491-517	XPFit Plus SC Connector MM 50/125 10G 0M3 250μm	Aqua	White

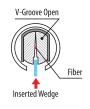
APPLICATIONS

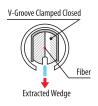
- Data Centers
- LAN
- Telecommunications
- Network Monitoring
- FTT)

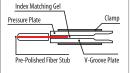
FEATURES

- Mechanical Splice (index matching gel)
- Highly Stable & Reliable
- Perfect Performance
- Compact Package
- RoHS Compliant
- Finished Connector meets UL94-V0 Flammability Rated

- 1. The connector performance specifications include an internal mechanical splice.
- 2. Typical specification values are at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$.









SC Simplified

Connector and Adapter



CONNECTOR CODE	FERRULE		ВОС	T TYPE		BOOT COLOR		
774	191	SM: 125.5μm	2	1.0 mm Fiber		2	Black	
	192	SM: 126µm						
	193	SM: 125µm						
			\Box	1				
	ORD	ER CODE example:.	774	- 191 -	22			

Note: Custom configuration available upon request

ADAPTER CODE	TYP	E	SLEE	VE	HOUSING COLOR		
229	1	Simplex	1	Zirconia Straight Split	1	Blue	
	2	Duplex	2	Phosphor Bronze Sleeve			
	3	8 ways					
	4	10 ways					
	L						
		ORDER CODE example:.		229 - 111			

SC Crimp Tool



CODE	CON	NECTOR TYPE
CRT	401	SC, FC, ST One Piece Connectors
	501	SC Connector Kit

Note:
Other termination tools and accessories are available upon request. Assembly instructions are provided with all connector kit



SC Adapter Series

SENKO offers a broad range of SC adapter that incorporate a hook which performs well under high temperatures, maintaining plug retention strength.

Simplex, duplex and quad adapters are available in plastic, with or without flange, and in horizontal and vertical mount styles. All come with a choice of zirconia split sleeves (diagonal or straight split options available), or with phosphor bronze straight split sleeves. Housing are available in a variety of colors. The SC simplex plastic adapter has an optional shutter. The SC adapter series is also available in a metal housing, with square or rectangular flange types. Custom hook color and mount housings are available.

SPECIFICATION	SINGLEMODE
	≤ 0.20dB Max for Zr Sleeve
Insertion Loss	≤ 0.30dB Max for Pb Sleeve
	(Note: Measured using JDSU meter and Master Jump
Sleeve/Ferrule Withdrawal Force	2.0N ~ 5.9N (200gf ~ 600gf)
	Sections
Meets GR-326	3.4 CR3-15
	3.4.1 C03-16

Specifications shown above were obtained using SENKO recommended products and procedures.

APPLICATIONS

- CATV
- Telecommunication networks
- Local Area Networks (LANs)
- · Metro networks
- Data processing networks
- Industrial, military and medical

FEATURES

- Compact design
- Telcordia, TIA/IEA, IEC and JIS compliance*
- High precision alignment
- Low insertion and return loss and back reflection*
- Choice of metal or plastic housing, mount styles & flange options

Note:

Custom configuration available upon request

SC Adapter



SC Simplex, w/Flange

Simplex



SC Simplex, w/Flange



SC Simplex, w/o Flange

APPLICATIONS

- CATV
- Telecommunication networks
- Local Area Networks (LANs)
- Metro networks
- Data processing networks
- Industrial, military and medical

FEATURES

- Compact design
- Telcordia, TIA/IEA, IEC and JIS compliance*
- High precision alignment
- Low insertion and return loss and back reflection*
- Choice of metal or plastic housing, mount styles & flange options

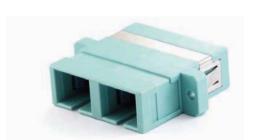
Note:

Custom configuration available upon request

COD	E	ТҮР	Е	COL	OR	SLE	EVE TYPE	HOC	K MATERIAL	SHL	JTTER
222	Flange	1	Simplex	0	Blue	1	Zirconia	1	High Tg	N	No Shutter
227	No Flange			1	Green	2	Phosphor Bronze	2	PBT		
				2	Beige			3	PPS		
				3	Black						
				4	Red						
				5	Yellow						
				9	Aqua						
				T	Clear						
		L									
		OR	DER CODE exa	ampl	e:. 22	2	- 101 -		1N		

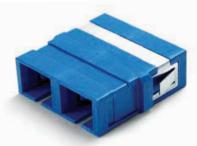


SC Adapter



SC Duplex, w/Flange, Horizontal Type

Duplex



SC Duplex, w/o Flange, Horizontal Type

CODI		TYP	E	COL	OR	SLE	EVE TYPE	H00	K MATERIAL	SHU	TTER
222	Flange	2	Dup. Horizontal	0	Blue	1	Zirconia	1	High Tg	N	No Shutter
227	No Flange	3	Dup. Vertical	1	Green	2	Phosphor Bronze	2	PBT		
				2	Beige			3	PPS		
				3	Black						
				4	Red						
				5	Yellow						
				9	Aqua						
				T	Clear						
		L			1						
		OR	DER CODE exa	mple	e:. 22	2	- 201 -	1	N		

APPLICATIONS

- CATV
- Telecommunication networks
- Local Area Networks (LANs)
- Metro networks
- Data processing networks
- Industrial, military and medical

FEATURES

- Compact design
- Telcordia, TIA/IEA, IEC and JIS compliance*
- High precision alignment
- Low insertion and return loss and back reflection*
- Choice of metal or plastic housing, mount styles & flange options

SC One Piece Adapter





CODI		TYP	E	COL	OR	SLE	EVE TYPE	H00	K MATERIAL	SHL	JTTER
242	Flange	1	Simplex	0	Blue	1	Zirconia	1	High Tg	N	No Shutter
247	No Flange			1	Green	2	Phosphor Bronze	2	PBT		
				2	Beige						
				3	Black						
				4	Red						
				5	Yellow						
				9	Aqua						
				T	Clear						
ORDER CODE example:. 242 - 101 - 1N											

The new one piece housing design prevents breaking of the adapter due to the absence of ultrasonic weld type construction.



SC One Piece Adapter
No Weld Type



SC Standard Adapter Welded Type



SC Shutter

Internal and External

SENKO offers both an external and internal shutters for adapters to shield potentially harmful light. SENKO's external shutters are made from special materials designed to attenuate a broad range of visible and invisible light, fit easily over existing adapters and provide a guard against debris such as dust and dirt. SENKO's patented internal shutter is a retractable shutter inside the adapter body and is only actuated by inserting the connector in to the body, designed specifically to prevent end face damage of the ferrule. The internal shutter is fully

automatic and provides an alternative to external shutter solutions.





SC Simplex, w/Flange and Internal Shutter

SC Simplex w/o Flange and External Shutter

SC Duplex, with Internal Shutter

CODI		TYP	E	COL	OR	SLE	EVE TYPE	H00	K MATERIAL	SHU	JTTER
222	Flange	1	Simplex	0	Blue	1	Zirconia	1	High Tg	Α	Internal Shutter (w/o mark)
227	No Flange	2	Dup. Horizontal	1	Green	2	Phosphor Bronze	2	PBT	В	Internal Shutter (w/mark)
				2	Beige			3	PPS		
				3	Black						
				4	Red						
				5	Yellow						
				9	Aqua						
				T	Clear						
						7					
		ORI	DER CODE exa	mpl	e:.	222	- 201	-	1A		

CODE	DESCRIPTION
222-2-OS	External shutter for SC Adapter

SC Metal Adapter



SC Simplex Horizontal Adapter Rectangular Flange with Metal Housing



SC Duplex Horizontal Adapter Rectangular Flange with Metal Housing

CODI	DE HOOK COLOR		SLE	EVE	
226	Simplex	1	High Tg	01	Zirconia Straight Split
228	Duplex Horizontal	2	Blue (PBT)	02	Phosphor Bronze
		3	Brown (PPS)		
	90		5005		
	OR	DER	CODE example:. 226	-	101



FC Connector

Best used in single mode applications and known for exceptionally accurate positioning, the FC or Fixed Connection Connector is designed for use in unstable environments because of their threaded barrel housing which provides a secure connection. As one of the most popular connectors used today its applications include CATV, Active device termination, Telecommunication networks, Metro networks, test equipment, multimedia, industrial, and military applications. SENKO carries three different versions of the FC; FC/APC, FC/PC and FC Connector Kits.

The FC Connector Kit is also available for those who prefer to assemble the FC connector from its component parts.

SPECIFICATION		SINGLEMODE	MULTIMODE		
Insertion Loss Premium Connector		0.08dB Typical	0.15dB Typical		
insertion Loss	Standard Connector	0.12db Typical	0.20db Typical		
Return Loss		≥ 55dB typical for SM PC			
Return Loss		≥ 65dB typical SM PC			
Durability		<0.1dB typical change, 500 matings	<0.1dB typical change, 500 matings		
Operating Temperature	e	-40°C to +75°C	-40°C to +75°C		
		125.5 μ m +1/-0 (SM) Concentricity: ≤ 1 μ m	127μm (MM)		
Ferrule Hole Sizes		126μm +1/-0 (SM) Concentricity: ≤ 1μm	144μm (MM)		
(Custom sizes available)		125μm +1/-0 (SM) Concentricity: ≤ 1μm	230μm (MM)		
		Custom Sizes			

Specifications shown above were obtained using SENKO recommended products and procedures.

FC Premium

1 PC Connector



FERRULE I.D.	B00			
	БОО	Т	COL	OR
101 SM: 125.5μm	1	3.0mm Cable Standard	1	Blue
102 SM: 126μm	2	900µm Fiber Buffer	2	Black
103 SM: 125μm	3	2.0mm Fiber	3	Green
201 SM: 127μm	4	3.0mm Cable Short	4	Red
202 SM: 230μm	5	2.4mm Cable Short	5	Gray
203 SM: 144μm	6	2.0mm Cable Short	6	Yellow
	7	3.0mm Premium (Telcordia)	7	White
	8	900µm Premium (Telcordia)	8	Beige
	9	2.0mm Cable Standard		
	Α	2.0mm Premium (Telcordia)		
	В	900µm Fiber Boot		
ORDER CODE example:.	351	- 201 - 28		
	102 SM: 126μm 103 SM: 125μm 201 SM: 127μm 202 SM: 230μm 203 SM: 144μm	102 SM: 126µm 2 103 SM: 125µm 3 201 SM: 127µm 4 202 SM: 230µm 5 203 SM: 144µm 6 7 8 9 А В	102 SM: 126μm 2 900μm Fiber Buffer 3 2.0mm Fiber 201 SM: 127μm 4 3.0mm Cable Short 202 SM: 230μm 5 2.4mm Cable Short 203 SM: 144μm 6 2.0mm Premium (Telcordia) 8 900μm Premium (Telcordia) 9 2.0mm Cable Standard A 2.0mm Premium (Telcordia) B 900μm Fiber Boot	102 SM: 126μm 2 900μm Fiber Buffer 2 2 900μm Fiber Buffer 3 2.0mm Fiber 3 2.0mm Fiber 3 3.0mm Cable Short 4 4 3.0mm Cable Short 5 2.4mm Cable Short 5 2.0mm Cable Short 6 7 3.0mm Premium (Telcordia) 7 8 900μm Premium (Telcordia) 8 9 2.0mm Cable Standard A 2.0mm Premium (Telcordia) B 900μm Fiber Boot

APPLICATIONS

- CATV
- Metro
- Active device termination
- Test equipment
- Telecommunication networks
- Local Area Networks (LANs)
- Wide Area Networks (WANs)
- Data processing networks
- Premise installations
- Industrial and military

FEATURES

- Compliance with Telcordia, TIA/IEA, IEC and JIS interface specifications*
- Low insertion loss & back reflection*
- One-piece construction & pull-proof design
- Free-floating ceramic ferrule
- Precision anti-rotation key and corrosion resistant body
- UL 94 V-0 boots in a variety of colors
- Telcordia style boots
- Adapters with choice of metal & flange options

Note

- 1. When terminated using SENKO recommended procedures.
- 2. Add 1.6 to order code to specify 1.6 mm cable option. Custom configurations available upon request.



FC-APC Premium

1 PC Connector



ONI	NECTOR	FERI	RULE I.D.	FERF	RULE POLISH	B00	Т
92	Step Ferrule	201	SM: 125.5μm	1	No Angle	1	3.0mm Cable Standard
93	Conical Ferrule	202	SM: 126μm	2	8° Pre-Angle	2	900µm Fiber Short
		203	SM: 125μm			3	2.0mm Fiber
						4	3.0mm Cable Short
						5	2.4mm Cable Short
						6	2.0mm Cable Short
						7	3.0mm Premium (Telcordia)
						8	900µm Premium (Telcordia)
						9	2.0mm Cable Standard
						Α	2.0mm Premium (Telcordia)
						В	900µm Fiber Boot
		ORDER (CODE example:.	293	- 203 - 1	6	

FC Standard



COD		FERI	RULE I.D.	B00	T	В00	OT COLOR
341	Preassembled Key Ring	101	SM: 125.5μm	1	3.0mm Cable Standard	1	Blue
331	Unassembled Key Ring	201	MM: 127μm	2	900µm Fiber (Buffer) Boot	2	Black
				9	2.0mm Cable Standard	4	Red
						6	Yellow
						8	Beige
	ORDER	CODE	E example:. 341	¬ -	101 - 11		

APPLICATIONS

- CATV
- Metro
- Active device termination
- Test equipment
- Telecommunication networks
- Local Area Networks (LANs)
- Wide Area Networks (WANs)
- Data processing networks
- Premise installations
- Industrial and military

FEATURES

- Compliance with Telcordia, TIA/IEA, IEC and JIS interface specifications*
- Low insertion loss & back reflection*
- One-piece construction & pull-proof design
- Free-floating ceramic ferrule
- Precision anti-rotation key and corrosion resistant body
- UL 94 V-0 boots in a variety of colors
- Telcordia style boots
- Adapters with choice of metal & flange options

- 1. When terminated using SENKO recommended procedures.
- 2. Custom configurations available upon request.



ADAPTER TYPE

259 Standard Body - MM/SM

297 Solid Body - MM/SM

FC Square Adapter



FC Square Adapter, Standard Body

ORDER CODE example:.



201

ord Body FC Square Add	apter, S	olid Body
EVE	KEY	WIDTH
Zirconia Straight Split	01	For PC Connector 2.15 +0.05/-0
Phosphor Bronze	02	For APC Connector 2.05 +/- 0.02
	_	

FC Round Adapter



297

FC Round Adapter, D Style

CODE	SLEEVE	KEYWIDTH		FLANGE
253 FC Round Adapter "D" & "DD"	1 Zirconia Straight Split	o For PC Connector 2.15 +0.05/-0	3	D: Ø8.85mm x 7.95m
	2 Phosphor Bronze	2 For APC Connector 2.05 +/- 0.02	4	DD: Ø9.35mm x 7.65mm
	ORDER CODE example:.	253 - 103		

MOUNTING HOLE DIMENSIONS

FC Square Adapter,

Standard Body

FC Round Adapter D Style



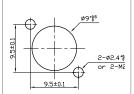
FC Round Adapter DD Style

FC Oval Adapter



FC Oval Adapter, HD Style

	CODE	SLEEVE				KEY	WIDTH
2	298 FC Oval Adapter "HD"	1 Zirconia Straight Sp	lit			01	For PC Connector 2.15 +0.05/-0
		2 Phosphor Bronze				02	For APC Connector 2.05 +/- 0.02
		L	1			_	
	ORDER CO	ODE example:.	298	-	1 01		



FC Oval Adapter, HD Style



900 um Premium

ST Connector

A straight tip or ST connector is characterized by its quick release bayonet style lock and spring loaded ferrule to hold the fiber. Most commonly used in network applications such as LANs, and Data Processing Networks, they are also found in Premise installations and Instrumentations applications. Horizontally mounted simplex and duplex adapters are available with metal or plastic housings.

SPECIFICATION		SINGLEMODE	MULTIMODE		
Insertion Loss Premium ST Connector		0.20dB	0.25dB		
Illsertion ross	Standard ST Connector	0.25dB	0.35dB		
Return Loss		≥ 55dB typical for SM PC			
Durability		<0.25dB typical change,500 matings	<0.25dB typical change,500 matings		
Operating Temperature	2	-40°C to +75°C	-40°C to +75°C		
		125.5μm +1/-0 (SM) Concentricity: \leq 1μm	127μm (MM)		
Ferrule Hole Sizes		126 μ m +1/-0 (SM) Concentricity: ≤ 1 μ m	144μm (MM)		
(Custom sizes available)		125μm +1/-0 (SM) Concentricity: ≤ 1μm	230μm (MM)		
		Custom	Custom		

Specifications shown above were obtained using SENKO recommended products and procedures.

ST Premium 1 PC Connector

3.0mm Premium

2.0mm Premium

CODE	FERF	RULE	B00	T TYPE	B00	BOOT COLOR		
215	101	SM: 125.5μm	1	3.0mm Cable Standard	1	Blue		
	102	SM: 126μm	2	900μm Fiber Short	2	Black		
	103	SM: 125μm	3	2.0mm Fiber	3	Green		
	201	SM: 127μm	4	3.0mm Cable Short	4	Red		
	202	SM: 230μm	5	2.4mm Cable Short	5	Gray		
	203	SM: 144μm	6	2.0mm Cable Short	6	Yellow		
			7	3.0mm Premium (Telcordia)	7	White		
			8	900µm Premium (Telcordia)	8	Beige		
			9	2.0mm Cable Standard				
			Α	2.0mm Premium (Telcordia)				
			В	900µm Fiber Boot				
	ORDE	R CODE example:.	215	- 101 - 35				

APPLICATIONS

- Local Area Networks (LANs)
- Data Processing Networks
- Premise Installations
- Instrumentation

FEATURES

- Bayonet style housing for easy termination
- Epoxy and epoxy free versions
- High Precision alignment
- Low insertion and return loss and back reflection

Note: Add 1.6 to order code to specify 1.6 mm cable option. Custom configurations available upon request.



ST Standard

1 PC Connector





3.0mm Cable Standard

CODE FERRULE		B00	T TYPE	BOOT COLOR			
233	ST Standard	101	SM: 125.5μm	1	3.0mm Cable Standard	1	Blue
		201	MM: 127μm	2	900µm Fiber Buffer	2	Black
				9	2.0mm Cable Standard	4	Red
						6	Yellow
						8	Beige
		L					
	OR	DER (CODE example:. 23	3 -	101 - 96		

APPLICATIONS

- Local Area Networks (LANs)
- Data Processing Networks
- Premise Installations
- Instrumentation

FEATURES

- Bayonet style housing for easy termination
- Epoxy and epoxy free versions
- High Precision alignment
- Low insertion and return loss and back reflection

ST Adapter







ST Adapter, Duplex

COD	E	SLE	EVE
216	Simplex Metal Housing	101	Zirconia Straight Split
316	Duplex Horizontal Metal Housing	102	Phosphor Bronze
317	Duplex Horizontal Plastic Housing		
	ORDER CODE example:.		316 - 101



DIN Premium

1 PC Connector



SPECIFICATION	SINGLEMODE	MULTIMODE
	125.5μm +1/-0 (SM) Concentricity: ≤ 1μm	127μm (MM)
Ferrule Hole Sizes	126μm +1/-0 (SM) Concentricity: ≤ 1μm	144μm (MM)
(Custom sizes available)	125μm +1/-0 (SM) Concentricity: ≤ 1μm	230μm (MM)
	Custom Sizes	Custom

CODE	FERRULE		BOOT TYPE			BOOT COLOR		
213 DIN Connector PC	101	SM: 125.5μm	1	3.0mm Cable Standard	1	Blue		
	102	SM: 126µm	2	900µm Fiber Short	2	Black		
	103	SM: 125µm	9	2.0mm Cable Standard	3	Green		
	201	MM: 127μm			4	Red		
					5	Gray		
					6	Yellow		
					7	White		
					8	Beige		
	ORD	ER CODE example:.	213	- 103 - 21				

CODE		FER	FERRULE I.D.			ULE POLISH	BOOT	
203	DIN Connector APC Step Ferrule	201	SM: 125.5μm	1		No Angle	1	3.0mm Cable Standard
209	DIN Connector APC Conical Ferrule	202	SM: 126μm	2	2	8º Pre-Angle	2	900µm Fiber Short
		203	SM: 125μm				9	2.0mm Cable Standard
	ORDER CO	DDE e	xample:. 20)3 -	2	03 - 11		

DIN Adapter



DIN Adapter

CODE	SLEEVE
214	101 Zirconia Straight Split
	102 Phosphor Bronze
	ORDER CODE example:. 214 - 101

APPLICATIONS

- CATV & multimedia
- Metro applications, premise installations
- Active device termination
- Test equipment
- Telecommunication networks
- Local & Wide Area
 Networks (LANs, WANs)
- Data processing networks
- Industrial, medical & military

FEATURES

- Compatible with DIN 47256
- Spring—loaded free floating ferrule piece construction
- Free-floating ceramic ferrule design
- Corrosion resistant body
- Compact design
- Low insertion loss & back reflection*

- 1. When terminated using SENKO recommended procedures.
- 2. Add 1.6 to order code to specify 1.6 mm cable option. Custom configurations available upon request



D4 Connector



CODE	FERRULE	B00	T TYPE	B00	T COLOR
272 D4 Crimp Style	102 SM: 126μm	1	3.0mm Cable Standard	1	Blue
	103 SM: 125μm	2	900µm Fiber Short	2	Black
		9	2.0mm Cable Standard	3	Green
		1		4	Red
				5	Gray
				6	Yellow
				7	White
				8	Beige
C	DRDER CODE example:.	272	- 102 - 21		

CODE	FERRULE	BOOT TYPE	BOOT COLOR
271 D4 Crimp Free Connector	102 SM: 126μm	1 3.0mm Cable Short	1 Blue
	103 SM: 125μm		2 Black
			4 Red
			7 White
	DRDER CODE example:.	271 - 103 - 17	

D4 Adapter



D4 Adapter

CODE		SLEEVE	
273	D4 Adapter	201	Phosphor Bronze Split

APPLICATIONS

- Telecommunications networks
- Local Area Networks (LAN)

FEATURES

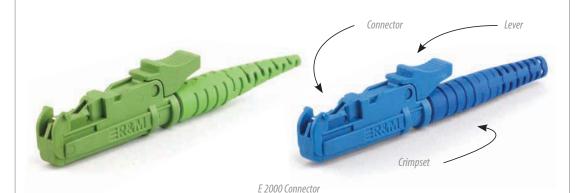
- Corrosion resistant body (Nickel Plated Brass)
- Choice of crimp style or epoxy-free, crimp free termination
- Variety of boot types and colors

Note:

Add 1.6 to order code to specify 1.6 mm cable option. Custom configurations available upon request



E-2000TM Connector



INSERTION LOSS	UNIT	TYPICAL	MAX
Multimode	dB	0.2	0.3
Singlemode, PC	dB	0.2	0.4
Singlemode, APC 8°	dB	0.2	0.4
RETURN LOSS	UNIT	TYPICAL	MINIMUM
Singlemode, PC	dB	50	45
Singlemode, APC 8°	dB	80*	60
MECHANICAL PROPERTIES	UNIT		
Mating Cycles	n/a	1000	
Temperature Cycling	°C	-25 to +70, 12 cycles	
MATERIALS			
Housing, Protective Cap and Tension Relief	PBT/UL94 V-0		

CONNECTOR CODE	DESCRIPTION
R304378	Simplex,PC,Multimode,Black
R304379	Simplex, PC, Singlemode, Blue
R305290	Simplex, APC ,Singlemode, Green

CONNECTOR LEVER CODE	DESCRIPTION	CONNECTOR LEVER CODE	DESCRIPTION
R304403	White	R304407	Orange
R307017	Blue	R304408	Red
R304405	Brown	R309210	Black
R307018	Green	R304832	Yellow
R308035	Violet	R308034	Turquoise

CRIMPSET CODE	DESCRIPTION	CRIMPSET CODE	DESCRIPTION
R304385	For Pigtail,Black	R306363	For 2.0 ~ 2.2 Cable,Green
R304386	For Pigtail,Blue	R306738	F or 2.6 ~ 2.9 Cable,Black
R304387	For Pigtail,Green	R306736	For 2.6 ~ 2.9 Cable,Blue
R306359	For 1.7 ~ 2.0 Cable,Black	R306737	For 2.6 ~ 2.9 Cable, Green
R306358	For 1.7 ~ 2.0 Cable,Blue	R306365	For 2.9 ~ 3.2 Cable,Black
R306360	For 1.7 ~ 2.0 Cable,Green	R306364	For 2.9 ~ 3.2 Cable,Blue
R309215	For 1.7 ~ 2.0 Cable,Red	R306366	For 2.9 ~ 3.2 Cable, Green
R306362	For 2.0 ~ 2.2 Cable,Black	R309214	For 2.9 ~ 3.2 Cable,Red
R306361	For 2.0 ~ 2.2 Cable,Blue		

APPLICATIONS

- WANs, LANs, CATV
- Metrology, Railway, Industry

FEATURES

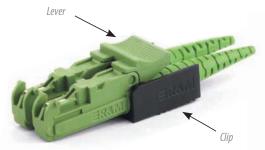
- Secure transmission of high bit-rate protocols
- Zirconia ceramic ferrule fully protected by spring loaded shutter
- Push-pull locking mechanism for easy installation
- Color coded release levers
- Compliant with European (EN 186270) and International (IEC 61754-15) standards
- Tested and approved by Swisscom

- 1. Levers with mechanical coding also available
- 2. Each E2000 is made by the following sub components:
 - Connector
 - Lever
 - Crimpset



E-2000TM

Compact (Duplex) Accessories





E-2000[™] *Compact APC Connector*

E-2000™ Compact MM Connector

COMPACT (RJ) CONNECTOR LEVER AND HOUSING CLIP CODE	DESCRIPTION	COMPACT (RJ) CONNECTOR LEVER AND HOUSING CLIP CODE	DESCRIPTION
R305513	Blue	R305517	Black
R305514	Green	R305518	White
R305515	Orange	R305542	Compact (RJ) Clip for Connector Housing
R309004	Turquoise		

E-2000TM

Adapters and Adapter Frames



E-2000™	APC	Simpl	lex A	daptei

SIMPLEX ADAPTER CODE	DESCRIPTION
R508019	Black
R504511	Blue
R504512	Green
R517677	Quick mounting clip
R504981	Black without frames
R504831	Blue without frames
R505612	Green without frames

SIMPLEX ADAPTER FRAME CODE	DESCRIPTION
R304410	Blue
R304411	Brown
R304412	Green
R304413	Red
R304414	Black
R304415	Orange
R304416	White
R304833	Yellow
R308036	Violet
R308037	Turquoise









E-2000™ Simplex Adapter Frames

E-2000™ APC Compact Adapter

E-2000™ Snap in Frame

COMPACT (RJ) ADAPTER FRAME CODE	DESCRIPTION
R305519	Blue
R305520	Green
R305524	Black
R305521	Orange
R305525	White
R308986	Turquoise

COMPACT (RJ) ADAPTER WITH SNAP IN FRAME CODE	DESCRIPTION
R313001	Adapter and Snap In Frame-PhBr black/black
R313002	Adapter and Snap In Frame-PhBr black/orange
R313010	Adapter and Snap In Frame-PhBr black/turquoise
R313011	Adapter and Snap In Frame-Ceramics blue/blue
R313009	Adapter and Snap In Frame-Ceramics green/white

APPLICATIONS

- WANs, LANs, CATV
- Metrology, Railway, Industry

FEATURES

- Secure transmission of high bit-rate protocols
- Zirconia ceramic ferrule fully protected by spring loaded shutter
- Push-pull locking mechanism for easy installation
- Color coded release levers
- Compliant with European (EN 186270) and International (IEC 61754-15) standards
- Tested and approved by Swisscom

Note: Levers with mechanical coding also available



SMA Connector



CONNECTOR	FERR	ULE I.D.	В00)T	COL	COLOR			
211 SMA with Hex Nut	201	MM: 127μm	1	3.0mm Cable Standard	1	Blue			
	202	MM: 230μm			2	Black			
	203	MM: 144μm			3	Green			
	204	MM: 245μm			4	Red			
	205	MM: 250μm			5	Gray			
	206	MM: 360μm			6	Yellow			
	207	MM: 460μm			7	White			
	208	MM: 240μm			8	Beige			
	ī				Х	Custom			
	ORDE	R CODE example:.	211	- 201 - 11					

SMA Adapter



SMA Adapter

CODE	ADA	PTERTYPE
212	101	SMA Adapter

APPLICATIONS

- Medical
- Surgical
- Aesthetic lasers
- Spectrometers
- Industrial
- Military
- Lasers

FEATURES

- Threaded nut connector
- One piece construction
- TIA and IEC compliant
- Simple termination
- Single crimp design
- Non-contact connector
- II II .
- Hex coupling nut

Note:

When terminated using SENKO recommended procedures.



Connector

Boots

CRIMP RING TYPE	CRIMP RING	воот	BOOT TYPE	ORDER CODE	B00	T DR (X)
HW-20001 3.0 mm			3.0 mm Cable Standard	HW-20008-0X	1	Blue
HW-20026 2.0 mm		اوارا ر ا ر ا ر	2.0 mm Cable Standard	HW-20053-0X	2	Black
N/A	N/A		900μm Fiber Short	HW-20013-0X	3	Green
N/A	N/A		2.0 mm Fiber	HW-20022-0X	4	Red
HW-2001 3.0 mm			3.0 mm Cable Short Boot	HW-20024-30X	5	Gray
HW-20025 2.4 mm			2.4 mm Cable Short Boot	HW-20024-24X	6	Yellow
HHW-20026 2.0 mm			2.0 mm Cable Short Boot	HW-20024-20X	7	White
HW-20001 3.0 mm			3.0mm Premium (Telcordia) for SC Connector	HW-20036-0X	8	Beige
HW-20001 3.0 mm		الرارارارار ال	3.0mm Premium (Telcordia) for FC and ST Connector	HW-20037-0X		
N/A	N/A	1 Julium	900μm Premium (Telcordia)	HW-20038-0X		
HW-20026 2.0 mm		Milition	2.0mm Premium (Telcordia) for SC Connector	HW-20057-0X		
HW-20026 2.0 mm			2.0mm Premium (Telcordia) for FC and ST Connector	HW-20058-0X		
HW-20061 1.6 mm		N/A	1.6 mm Crimp Sleeve	HW-20061		

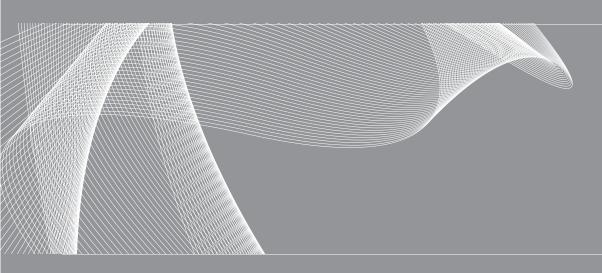
FEATURES

• Compatible with Pre-Assembled Connector Series SC, FC, SC/APC, FC/APC, DIN, D4

Note:

These boots will only fit the SC, FC, ST, DIN, D4 Premium and Standard connectors

STANDARD CONNECTOR SERIES	pg. 04
SMALL FORM FACTORS	pg. 24
SPECIALTY PRODUCTS	pg. 38
CONNECTOR & ADAPTER SUBCOMPONENTS	pg. 44
POLISHING SYSTEMS	pg. 50



SMALL FORM FACTORS

LC -UPC Unibody

LC-APC Unibody

LC Connector

LC Uniboot

LC XP Fit Plus Connector

LC Adapter Series

MU Connector

MU Connector Kit

MU Clip

MU Crimp Tool

MU Adapter

MPO Connector

MPO/MT Ferrule

MPO Adapter

MPO Crimp Too

MT-RJ Connector

MT-RJ Adapter

MT-RJ Ferrule

MT-RJ Crimp Tool



LC-UPC Unibody

Connector

SPECIFICATION	SINGLEMODE	MULTIMODE
	0.08dB typical UPC	
Insertion Loss	0.10dB typical APC	0.15dB typical
	0.04dB typical Super Low Loss	
Return Loss	≥55dB typical UPC	
Return Loss	≥65dB typical APC	
Durability	< 0.2dB typical change,500 matings	
Operating Temperature	-40 to +75°C	
	125.5 μ m +1/-0 Concentricity: ≤ 1 μ m	
Ferrule Hole Sizes	126µm +1/-0 Concentricity: \leq 1µm	127µm
	125μm +1/-0 Concentricity: : ≤ 1μm	



CODE TYPE		YPE FERRULE I.D. H		HOU	HOUSING		BOOT		OR		
93	LC Unibody	1	Simplex	151	SM 125.5μm	1	SM Blue 1 BTW Boot		BTW Boot	1	White
		2	Duplex	152	SM 126µm	2	MM Beige	4	2.0mm Round	2	Blue
				153	SM 125µm			5	2.0mm Boot,SHORT type (L=14mm)	3	Black
				251	MM 127μm			6	3.0mm Boot	4	Yellow
				159	SM 125µm Super Low Loss ferrule 35°					5	Red
						7]					
ORDER CODE example:. 931 - 153 - 141								3 - 141			



E	TYP	E	FERI	RULE I.D.	НО	USING	B00	T	COL	.OR
LC Unibody	1	Simplex	151	SM 125.5μm	3	APC Green	1	BTW Boot	6	Green
	2	Duplex	152	SM 126µm			4	2.0mm Round		
			153	SM 125μm			5	2.0mm Boot,SHORT type (L=14mm)		
			159	SM 125µm Super Low Loss ferrule 35°	L		6	3.0mm Boot		
			ORDE	R CODE example:.		931 -	15	3 - 366		
		LC Unibody 1	LC Unibody 1 Simplex 2 Duplex	LC Unibody 1 Simplex 151 2 Duplex 152 153 159	LC Unibody 1 Simplex 151 SM 125.5μm 2 Duplex 152 SM 126μm 153 SM 125μm SM 125μm Super Low	C Unibody 1 Simplex 151 SM 125.5μm 3 2 Duplex 152 SM 126μm 153 SM 125μm SM 125μm 159 SM 125μm Super Low Loss ferrule 35°	LC Unibody 1 Simplex 151 SM 125.5µm 3 APC Green 2 Duplex 152 SM 126µm 153 SM 125µm 159 SM 125µm Super Low Loss ferrule 35°	LC Unibody 1 Simplex 151 SM 125.5μm 3 APC Green 1 2 Duplex 152 SM 126μm 4 153 SM 125μm 5 159 SM 125μm Super Low Loss ferrule 35° 6	C Unibody 1 Simplex 151 SM 125.5μm 3 APC Green 1 BTW Boot	C Unibody 1 Simplex 151 SM 125.5μm 3 APC Green 1 BTW Boot 6

APPLICATIONS

- Telecom / Datacom
- Local Area Networks (LANs)
- CATV
- FTTX
- Premise Installation
- Gigabit applications (Ethernet, ATM, SONET, etc.)

FEATURES

- Compact, pull-proof design with RJ-45 style interface
- Fully compatible with standard LC products
- Optional anti-snag simplex collar and duplex clip can be used on same connector body, eliminating need to purchase different housing styles
- Boot, housing, strength member, and simplex collar / duplex clip made from V-0 UL-rated material

Note:

As part of the Quality LC Certification Program, established by OFS, the singlemode and multimode LC Unibody Jumper connectors have been independently tested and successfully met prescreening requirements as well as optical, environmental, mechanical, and end of test criteria for insertion loss, return loss, and ferrule geometry and damage. With this achievement, SENKO became the first member of the LC Connector Alliance authorized by OFS to use the LC Quality Mark.



LC Connector

The SENKO LC family of singlemode and multimode connectors, adapters and associated components are manufactured under a worldwide license from OFS. The LC is a small form factor (SFF)connector and is ideal for high density applications. A Behind the Wall (BTW) version is available withshort connector and boot for ultra-compact requirements.

The LC connector has a zirconia ceramic ferrule measuring 1.25mm 0.D. and provides optimum insertion and return loss.* The LC connector is used on small diameter mini-cordage (1.6/1.8/2.0mm) as well as 3.0mm cable. LC Connectors are available in pre-assembled or kit (unassembled) formats. The LC connector family is Telcordia, ANSI/EIA/TIA and IEC compliant.

SPECIFICATION	SINGLEMODE	MULTIMODE
Insertion Loss	0.10dB typical	0.20dB typical
Return Loss	≥ 55dB typical for singlemode PC	
Durability	< 0.2dB typical change,500 matings	
Operating Temperature	-40 to +75°C	
	125.5μm +1/-0 Concentricity: ≤ 1μm	
Ferrule Hole Sizes	126μm +1/-0 Concentricity: ≤ 1μm	127μm
	125µm +1/-0 Concentricity: ≤ 1µm	

Specifications shown above were obtained using SENKO recommended products and procedures.

APPLICATIONS

- Gigabit ethernet
- Video
- Active device termination
- Premise installations
- Telecommunications networks
- Multimedia
- Industrial
- Military

FEATURES

- Compact, pull-proof design
- RJ-45 style interface
- Low insertion loss and low back reflection*
- Polarized and color coded (TIA 568-A & ISO 11801)
- UL-rated plastic housing and boot
- Behind the Wall (BTW) style short connector & boot available
- High precision alignment

Note:

When terminated using SENKO recommended procedures.

LC Connector



CODE	TYPE F		FERE	RULE I.D.	НО	USING	ВО	OT	CO	LOR
91 Pre-Assembled, 1pc	1	Simplex	151	SM 125.5µm 35 degree chamfer	1	SM Blue	1	1.0mm BTW Boot	1	White
92 Unassembled Kit	2	Duplex	152	SM 126µm 35 degree chamfer	2	MM Beige	2	2.0mm Jumper Boot	2	Blue
			153	SM 125µm 35 degree chamfer			6	3.0mm Boot	3	Black
			251	MM 127µm 35 degree chamfer					4	Yellow
			159	SM 125um Low Loss ferrule 35°					5	Red
ORDER CODE example:. 911 - 153 - 121										

- **1.** When terminated using SENKO recommended procedures.
- 2. Specification for the Low Loss ferrule:
 - IL 0.03dB typical (mated with master connector)
 - IL 0.05dB typical (mated with random connector)



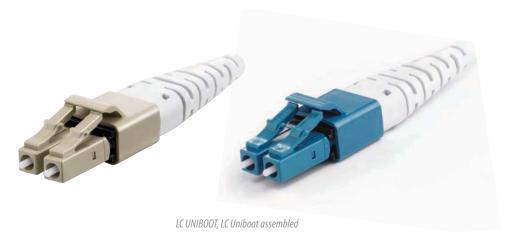
LC Uniboot

Connector

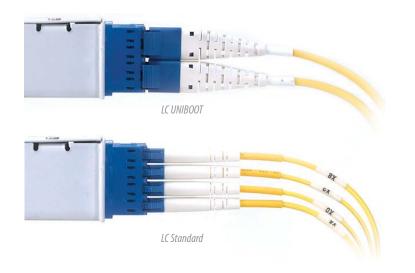
The SENKO LC Uniboot is unique design that allows a single round duplex fiber 3mm cable to be used for duplex connector. This compact, easy to terminate connector kit has a simple round crimp design and incorporates standard SENKO 900µm LC connectors, so you will experience the normal optical performance of our proven LC design.

SPECIFICATION	SINGLEMODE	MULTIMODE
Insertion Loss	0.10dB typical	0.20dB typical
Return Loss	≥ 55dB typical for singlemode PC	
Durability	< 0.2dB typical change,500 matings	
Operating Temperature	-40 to +75°C	
	125.5μm +1/-0 Concentricity: ≤ 1μm	
Ferrule Hole Sizes	126μm +1/-0 Concentricity: ≤ 1μm	127μm
	125μm +1/-0 Concentricity: ≤ 1μm	

Specifications shown above were obtained using SENKO recommended products and procedures.



CODE	ТҮРЕ
942-251-221	LC Uniboot Conn MM (ID127 μm 35d) White Boot
942-151-121	LC Uniboot Conn SM (ID125.5 µm 35d) White Boot



APPLICATIONS

- Datacenters
- · Gigabit ethernet
- Video
- Active device termination
- Premise installations
- Telecommunications networks
- · Multimedia
- Industrial
- Military

FEATURES

- Compact, pull-proof design
- RJ-45 style interface
- Low insertion loss and low back reflection*
- Polarized and color coded (TIA 568-A & ISO 11801)
- UL-rated plastic housing and boot
- High precision alignment

Note: When terminated using SENKO recommended procedures.



XP Flt Plus

LC Field Installable Connector

The XP Fit Plus is a pre-polished, pre-assembled connector compatible with the standard LC connector. In place of epoxy, an internal mechanical grip gently but effectively holds the fiber in place and can be installed in under two minutes. Without polishing or adhesives, the XP Fit Plus makes field installations quick and easy, eliminating the need for epoxy curing and hand polishing at the work site. The XP Fit Plus comes with an assembling jig and fiber holder, making for an accurate alignment and fiber cleave when terminating the connector.

SPECIFICATION	SINGLEMODE	MULTIMODE
Insertion Loss	0.2dB typical (PC) and 0.3dB typical (APC)	0.1dB typical
Return Loss	55dB typical (PC) 60dB typical (APC)	35dB typical
Durability	<0.1dB typical change, 500 matings*	<0.1dB typical change, 500 matings*
Operating Temperature	-40°C to +75°C-	-40°C to +75°C
Tensile	TIA/EIA 568-B.3	
Intermateability	IEC 61754-4	

^{*} Specifications shown above were obtained using SENKO recommended products and procedures.

XP Fit Plus

LC Connector



PART NUMBER	DESCRIPTION	HOUSING	BOOT COLOR
951-191-111	XPFit Plus LC Connector SM PC 900μm	Blue	White
951-091-311	XPFit Plus LC Connector SM APC 900μm	Green	White
951-291-811	XPFit Plus LC Connector MM 50/125 900μm	Black	White
951-391-211	XPFit Plus LC Connector MM 62.5/125 900µm	Beige	White
951-491-911	XPFit Plus LC Connector MM 50/125 10G 0M3 900µm	Aqua	White

APPLICATIONS

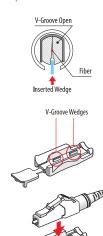
- Data Centers
- LAN
- Telecommunications
- Network Monitoring
- FTT

FEATURES

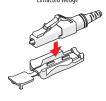
- Mechanical Splice (index matching gel)
- Highly Stable & Reliable
- Perfect Performance
- Compact Package
- RoHS Compliant
- Finished Connector meets UL94-V0 Flammability Rated

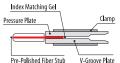
Note:

The connector performance specifications include an internal mechanical splice.











LC Adapter Simplex

LC Adapter

LC Adapter Simplex



Standard

LC Adapter Duplex



LC Adapter Duplex

CODE	TYP	E	COLO)R	SLEE	VE TYPE
999	1	Simplex	1	Blue	1	Zirconia Straight Split
	2	Duplex	2	Black	2	Phosphor Bronze (SM,MM)
			3	APC Green		
			8	Beige		
			9	Aqua		
		ORDER CO	DDE e	example:. 999 -	19	1

FEATURES

- Compact design
- Telcordia, ANSI, TIA/EIA, and ISO compliance*
- Color coding
- High precision alignment

Note:

When following procedures recommended by SENKO Advanced Components, Inc.

LC Adapter

SC Footprint SNR/JUN



LC Quad Adapter, with SC Footprint, with Flange, Junior-Senior



without Flange, Junior-Senior



with Flange, Junior-Senior



LC Quad Adapter, with SC Footprint, LC Duplex Aqua Adapter, with SC Footprint, LC Duplex Adapter, with SC Footprint, without Flange, Junior-Senior

000	DE	TYPI		COL	OR	SLE	EVE TYPE
999		3	Duplex with Flange	1	Blue	1	Zirconia Straight Split
		4	Duplex with No Flange	2	Black	2	Phosphor Bronze (SM,MM)
		5	Quad with Flange	3	APC Green		
		6	Quad with No Flange	8	Beige		
				9	Aqua		
							III
			ORDE	R COI	DE example:. 999	-	611

LC Adapter

Symmetrical with SC Footprint - SNR/SNR



LC Quad Adapter, with SC Footprint, with Flange, Senior-Senior



LC Quad Adapter, with SC Footprint, without Flange, Senior-Senior



LC Duplex Adapter, with SC Footprint, with Flange, Senior-Senior



LC Duplex Adapter, with SC Footprint, No flange, Senior-Senior, Singlemode

CODE	TYP		COLO	DR		SLEE	EVETYPE
999	35	Duplex with Flange	1	Blue		1	Zirconia Straight Split
	45	Duplex with No Flange	2	Black		2	Phosphor Bronze (SM,MM)
	5\$	Quad with Flange	3	APC Green			
	65	Quad with No Flange	8	Beige			
			9	Aqua			
					1		111
		ORDE	R COI	DE example:.	999	-	5531



LC One Piece Adapter

SNR/SNR

SENKO offers both an external and internal shutters for adapters to shield potentially harmful light. SENKO's external shutters are made from special materials designed to attenuate a broad range of visible and invisible light, fit easily over existing adapters and provide a guard against debris such as dust and dirt. SENKO's patented internal shutter is a retractable shutter inside the adapter body and is only actuated by inserting the connector in to the body, designed specifically to prevent end face damage of the ferrule. The internal shutter is fully automatic and provides an alternative to external shutter solutions.



LC One Piece Adapter Duplex, with SC Footprint, without flange, Senior-Senior



LC One Piece Adapter Duplex with Inner Shutter, with SC Footprint, without flange, Senior-Senior

CODE	TYP		COLO	DR	SLEE	VE TYPE	SHU	TTER
988	35	Duplex with Flange	1	Blue	1	Zirconia	N	No Shutter
	45	Duplex with No Flange	2	Black	2	Phosphor Bronze	Α	Internal Shutter (w/o mark)
	1		3	Green	3	Zir Dia.		
			8	Beige				
			9	Aqua				
						111 1		
		ORE	DER C	ODE example:.	988	- 411 - N		

LC One Piece Adapter SNR/JNR



LC One Piece Adapter Duplex with SC Footprint, with Flange, Junior-Senior



LC One Piece Adapter Duplex with SC Footprint, without Flange, Junior-Senior

CODE	T	YPE		COLO)R	SLEE	VE TYPE	SHU	TTER
988		3	Duplex with Flange	1	Blue	1	Zirconia	N	No Shutter
		4	Duplex with No Flange	2	Black	2	Phosphor Bronze	Α	Internal Shutter (w/o mark)
				3	Green	3	Zir Dia.		
				8	Beige				
				9	Aqua				
							111 1		
			ORI	DER C	ODE example:.	988	- 411 - N		

FEATURES

- Compact design
 Telcordia, ANSI, TIA/EIA, and ISO
- compliance*
 Color coding
- High precision alignment



LC One Piece Adapter
No Weld Type



LC One Piece Adapter Welded Type

The new one piece housing design prevents breaking of the adapter due to the absence of ultrasonic weld type construction.



MU Connector

The SENKO family of singlemode and multimode MU connectors and adapters are fully inter-mateable with NTT-MU style products, and are NTT and JIS compliant.* This small form factor connector is approximately half the size of the SC connector, and has a push-pull style design. The connector features a pre-assembled body and precision molded plastic housing, and a free-floating ferrule measuring 1.25mm 0.D. held in place with a precision spring.

Housing and boot are made from UL-rated material. The MU-J style connector is the same as the regular MU connector, but without the outer housing and with a very narrow, short boot for 900 micron fiber, ideal for back panel solutions and high-density situations. SENKO MU Connectors are available in pre-assembled or kit (unassembled) formats.

SPECIFICATION	SINGLEMODE	MULTIMODE
Insertion Loss	0.10dB typical	0.15dB typical
Return Loss	≥ 55dB typical for singlemode PC	
Durability	< 0.1dB typical change,500 matings	<0.2dB typical change,500 matings
Operating Temperature	-40 to +75°C	-40°C to +75°C
	126μm +1/-0 Concentricity: ≤ 1μm	
Ferrule Hole Sizes	125μm +1/-0 Concentricity: ≤ 1μm	127µm
	125.5μm +1/-0 Concentricity: ≤ 1μm	

Specifications shown above were obtained using SENKO recommended products and procedures.

MU One Piece

Connector



CONNECTOR	FERI	RULE	HOL	JSING	B00	T TYPE	B00	T COLOR
510 MU Connector	111	SM: 125.5μm	1	Blue	1	2.0mm cable	1	Blue
	112	SM: 126µm	2	Black	2	1.0mm Fiber	2	Black
	113	SM: 125μm	3	Red	4	1.6mm Cable	3	Green
	211	MM: 127μm	4	Beige	5	1.0 Fiber Short	4	Red
			5	Brown			5	Gray
			6	Yellow			6	Yellow
			0	MU-J*			7	White
					L		8	Beige
							9	Lavender
	OR	DER CODE exam	ple:.	510 -	111	- 519		

APPLICATIONS

- CATV
- Video
- Active device termination
- Premise installations
- Telecommunications networks
- Local Area Networks (LANs)
- Data processing networks
- Wide Area Networks (WANs)
- Industrial, medical & military

FEATURES

- NTT-MU hardware compatibility
- NTT & JIS compliance*
- · Compact, pull-proof design
- High precision alignment
- One piece construction
- Tunable zirconia connector ferrule
- Corrosion resistant body
- UL-rated plastic housing and boot
- Universal Duplex Clip
- Low insertion loss & back reflection*

- 1. When terminated using SENKO recommended procedures.
- 2. *Custom configurations* available upon request.



MU Connector Kit





MU Kit with 2.0mm Cable boot

MU Kit with 1.0mm Fiber Short Body

CODE	FERRULE	HOL	JSING	B00	ТТҮРЕ	ВОС	OT COLOR
511 MU kit	101 SM: 125.5μm	5	Brown	1	2.0mm Cable	9	Lavender
	102 SM: 126μm	0	MU-J	2	1.0mm Fiber Long Body		
	103 SM: 125μm			3	1.0mm Fiber Short Body		
	201 MM: 127μm						
	ORDER CODE example	::.	511 -	103	- 519		

Universal MU Duplex Clip



CODE	CLIP TYPE		COLO	R
512	1 Vertical		12	Black
	2 Horizontal		15	Brown
OR	DER CODE example:.	512 - 116		

MU Connector

Crimp Tool



CRIMP TOOL CODE	ТУРЕ				
CRT	301 MU Connector				
	701 LC/MU Dual Crimp Tool				
ORDER CODE ex	cample:. CRT - 301				

APPLICATIONS

- CATV
- Video
- Active device termination
- Premise installations
- Telecommunications networks
- Local Area Networks (LANs)
- Data processing networks
- Wide Area Networks
 (WANs)
- Industrial, medical & military

FEATURES

- NTT-MU hardware compatibility
- NTT & JIS compliance*
 - Compact, pull-proof design
- High precision alignment
- One piece construction
- Tunable zirconia connector ferrule
- Corrosion resistant body
- UL-rated plastic housing and boot
- Universal Duplex Clip
- Low insertion loss & back reflection*

Note:

Custom configurations available upon request.



MU Adapter







Simplex

Duplex

8-Port

CODE	ТҮРЕ		SLEEVE				
MUA	1	Simplex	ZA	Zirconia			
	2	Duplex					
	3 8-Port						
		ORDER CODE example:.	MUA	- 1PB			

MU Backboard and Package Housing









Duplex Backboard

MUB

8-port Backboard

8-Port

ORDER CODE example:.

TYPE

2 Duplex

Duplex Package Housing

HOUSING TYPE

1 Backboard 2.4mm Thickness
2 Backboard 3.2mm Thickness
3 Package Housing

MUB - 2 - 1

CODE	ТҮРЕ
MU-SH	MU Sleeve Holder

CODE	ТҮРЕ
MU-JRT	MU Removal Tool





APPLICATIONS

- Fiber optic subscriber network transmission/ switching equipment
- CATV
- Active device termination
- Telecommunication networks
- Metro networks
- Local Area Networks (LANS)
- Data processing networks
- Premise installations
- Industrial, military and medical

FEATURES

- Compact design
- NTT-MU hardware compatibility
- NTT & JIS compliance
- High precision alignment
- Low insertion and return loss and back reflection*



MPO Connector

The MPO connector offers up to 24 times the density of standard connectors, providing significant space and cost savings.

MPO connectors utilize precision molded MT ferrules, with metal guide pins and precise housing dimensions to ensure fiber alignment when mating. The MPO can be mass terminated in combinations of 4, 8, or 12 fiber ribbon cables. The MPO Adapter comes standard in black.

SPECIFICATION	SINGLEMODE	SINGLEMODE SUPER LOW LOSS	MULTIMODE			
Insertion Loss	0.25dB Typical (all fibers)	0.1dB Typical (all fibers)	0.20dB Typical (all fibers)			
Ilisertion ross	0.75dB Maximum (single fiber) *	0.35dB Maximum (single fiber) *	0.50dB Maximum (single fiber) *			
Return Loss	≥ 55dB (8°Angle Polish)	≥ 55dB (8°Angle Polish)	>25dB			
Durability	<0.30dB change	<0.30dB change	<0.20dB change			
Durability	500 matings (per EIA-455-21A)	500 matings (per EIA-455-21A)	1000 matings (per EIA-455-21A)			
Operating Temperature	-40°C ~ +80°C					

^{*} As tested per ANSI/EIA 455-171 Method D3.

MPO Connector



COD	CODE HOOK COLOR		B00	BOOT		
701	Male	1	Green (SM)	1	Ribbon Fiber	
702	Female	3	Beige (MM 62.5/125)	2	Ruggedized Cable	
		4	Yellow (SM Low Loss)	4	Round Cable	
		5	Aqua (0M3 50/125)			
	ORDER C	CODE	example:. 702 - 12			

APPLICATIONS

- Asynchronous Transmission Mode (ATM)
- Gigabit Ethernet
- CATV, Video and Multimedia
- Active Device/ Transceiver Interface
- Premise Installations
- Telecommunication Networks
- Industrial & Military
- Parallel optical interconnect between PC Cards and patch panels
- Interconnection for O/E modules
- Optical Switch interframe connections

FEATURES

- Precision molded MT ferrule
- High precision guide pins for exact alignment
- Compact design, up to
 12 fiber ribbons
- IEC 61754-7 Compliant*
- Telcordia GR-1435-CORE compliant*
- Polishing does not require diamond film

Note

- 1. *When terminated using SENKO recommended procedures.
- 2. Custom configurations available upon request.

^{*} As tested per ANSI/EIA 455-171 Method D1.



MPO/MT



CODE	FER	RULE TYPE	FER	FERRULE HOLES				MATERIAL	
MT	2	SM Standard for Angle Polish	1	4-Fib	er			P	Thermoplastic (PPS)
	3	SM Low Loss for Angle Polish	2	8-Fib	er				
	4	MM Flat Polish	3	12-Fi	ber				
	5	SM Super Low Loss for Angle Polish	5	24-Fi	ber				
			∟	_	_				
	(ORDER CODE example:. MT -	2	-	3	-	Р		

Note:

- 1. Low loss and Super Low Loss ferrules are available only for 8 and 12 fiber.
- 2. 24 Fiber is Thermoset material.
- 3. Custom configurations available upon request.



Adapters







MPO Adapter No Flange

ADA	PTER CODE	TYPI	
777	Standard	1	Black
778	No Flange		
	ORDER CODE example:.		777 - 1

Note:

Custom configurations available upon request.

MPO

Crimp Tool



CRIMP TOOL CODE	TYPE	
CRT	601	MPO Connector
	602	MPO Round

- 1. Other termination tools and accessories are available upon request.
- 2. Assembly instructions are provided with all connector kits.



MT-RJ Connector

The singlemode or multimode MT-RJ products available from SENKO are used in two fiber applications and are well suited for high density applications. The MT-RJ connectors utilize precision molded MT ferrules pioneered by NTT, together with precision metal guide pins and precise housing dimensions to ensure fiber alignment when mating.

The MT-RJ is reliable and simple to teminate. The MT-RJ Adapter comes standard in black, with additional colors available upon request. Anoptional MT-RJ Adapter with SC style housing is also available for applications where SC footprintis required.

SPECIFICATION	SM	MM
Insertion Loss	< 0.2dB typical	< 0.25dB typical
Return Loss	≥ 45dB typical	
Durability	< 0.1dB typical change,500 matings	
Operating Temperature	-40 to +75°C	

Specifications shown above were obtained using SENKO recommended products and procedures.

MT-RJ Connector



CODE HOUSING COLOR		ВООТ	BOOT COLOR		
801 MT-RJ Female	1 Black	1 3.0mm Cable Round	1 Black		
802 MT-RJ Male		4 1.8mm Duplex Zip Cable Boot			
		5 2.0mm Duplex Zip Cable boot			
	ORDER CODE exar	mple:. 801 - 141			

APPLICATIONS

- Asynchronous Transmission Mode (ATM)
- Gigabit Ethernet
- CATV, Video and Multimedia
- Active Device/
 - Transceiver Interface
- Premise Installations
- Telecommunication
 Networks
- Industrial
- Military
- Parallel optical interconnect between PC Cards and patch panels
- Interconnection for O/E modules
- Optical Switch interframe connections

FEATURES

- Precision molded MT ferrule
- High precision guide pins for exact alignment
- Duplex ferrule
- Plug-jack (RJ-45) design
- TIA/EIA 568-A compliant*
- Polishing does not require diamond film

- When terminated using SENKO recommended procedures.
- 2. Custom configurations available upon request.



MT-RJ Adapter







MT-RJ Adapter with SC Footprint

ADAPTER CODE		COLOR						
888	Standard	1	Black					
890	SC Footprint with Flange	1	Black					
891	SC Footprint with No Flange	2	Beige					
		3 Blue						
	ORDER CODE exam	nple:.	891 - 1					

Note: Custom configurations available upon request.

MT-RJ Ferrule and Guide Pin



MT-RJ ferrule

PIN CODE	ТҮРЕ		MATERIAL		
MTRJ	S	Singlemode 126µm	Р	Thermoplastic (PPS)	
MTRJ	M	Multimode 126.5µm			

Note: Custom configurations available upon request.

PIN CODE	ТҮРЕ	TOLERANCE MATERIAL
GP	2 MT-RJ	1 Multimode 1 Stainless Steel
		2 Singlemode
	ORDER CODE example:.	GP - 23 - 2

MT-RJ Crimp Tool

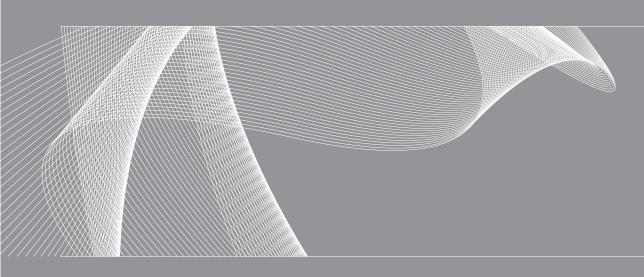


103 MT-RJ Connector, 3.0 mm and Zip Cables

CRIMP TOOL CODE		ТҮРЕ	
CRT	103	MT-RJ Connector 3.0mm round and Zip cable	

- 1. Other termination tools and accessories are available upon request.
- 2. Assembly instructions are provided with all connector kits.

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SPECIALTY PRODUCTS

Attenuators Terminators Hybrid Adapters Switchable Adapte



Attenuators

SPECIFICATION	
Return Loss	≥ 55dB (UPC)
Keturii Loss	≥ 65dB (APC)
Attenuation Tolerance	1 to 10dB: ±0.5,11 to 30 dB: ±5%
Operational Wavelengths	1310, 1490, and 1550nm
Operating Temperature	-40 to +75°C

Specifications shown above were obtained using SENKO recommended products and procedures.















CONNECTOR ATTENUATION LEVEL ATTENUATION TOLERANCE TYPE **ATN** Dope Fiber Attenuators 432 SC APC **01** 1dB 1 Premium **02** 2dB 532 FC APC **03** 3dB 632 SC UPC 732 FC UPC **04** 4dB 832 ST UPC 05 5dB 06 13 32 MU SPC 6dB 14 32 MU UPC 07 7dB 15 32 LC UPC 08 8dB 09 9dB **10** 10dB **12** 12dB **15** 15dB 20 20dB **25** 25dB ORDER CODE example:. ATN 632

APPLICATIONS

- EDFA
- DWDM
- · Long-haul
- Wide-Area Networks
- Metro
- · High power

FEATURES

- One piece housing construction including LC & MU for better side load performance
- Metal-ion doped fiber (continuous)
- · High durability
- Attenuation levels ranging from 1dB to 30dB

Note: Custom configurations available upon request.



Terminators

SENKO fiber optic terminators use doped fiber designs or other proprietary designs to eliminate unwanted back-reflection. The terminators are available in FC and SC with SPC, UPC or APC polishes, and also in small form factor design including LC and MU with SPC and UPC Polishes.

SPECIFICATION	
Return Loss	≥ 55dB (UPC) ≥ 65dB (APC)
Operating Temperature	-40 to +75°C







MU Terminator

LC Terminator

CODE	ТҮРЕ	POLISH	DESIGN	
TRM	1 SC	2 UPC	1 Doped fiber	
	2 FC	3 APC	2 Off-set	
	3 ST			
	4 LC			
	5 MU			
	L			
	ORDER CODE example:.	TRM - 1 -	3 - 2	

APPLICATIONS

- DWDM upgrade ports
- Network system receiver open ports
- Dark fiber upgrade ports

- Metal-ion doped fiber (continuous)
- High durability
- Custom configurations



LC-MU Hybrid

Adapter



CODE	ADAPTER STYLE	SLEEVE
M90	1 Simplex	01 Zirconia
		O2 Phosphor Bronze
	ORDER CODE example:.	M90 - 102

Note: Custom configurations available upon request.

LC-SC Hybrid

Adapters



CODI		STYLE		COLO	SLEEVE			
990	LC-SC	1	Simplex	1	Blue		3	Zirconia
		L						
		OR	DER CODE example:.		990 -	113		

Note: Custom configurations available upon request.

SC-ST Hybrid

Adapters



SC-ST Simplex Adapter with Rectangular Flange



SC-ST Duplex Adapter, with Flange



SC-ST Adapter with square flange

CODE		APP	PLICATION	SLE	EVE
283	Square Flange Simplex (metal)	1	For PC Connector	01	Zirconia Straight Split
286	Rectangular Flange, Simplex (metal)			02	Phosphor Bronze
288	Rectangular Flange, Duplex (metal)				
289L	Rectangular Flange, Duplex, Blue* (plastic)				
289T	Rectangular Flange, Duplex, Beige* (plastic)				
	ORDER CODE	exan	nple:. 288 - 102		

Note:

- 1. All adapters listed above are made with metal housing with the exception of the 289 Series, which is made with polymer housing.
- 2. Custom configurations available upon request.
- 3. * For No Flange option, add NF to order code. Available for 289L and 289T adapters only.



FC-SC Hybrid

Adapters



FC-SC Adapter with square flange



FC-SC Adapter with rectangular flange

CODE		KEY	WIDTH			SLEE	EVE
282	Square Flange	1	For PC Connector: 2.15+	-0.05/-0		01	Zirconia Straight Split
285	Rectangular Flange	2	For APC Connector: 2.05	+/-0.02		02	Phosphor Bronze
	ORD	ER CO	ODE example:.	282	-	101	

Note: Custom configurations available upon request.

FC-ST Hybrid

Adapters



FC-ST Adapter with square flange



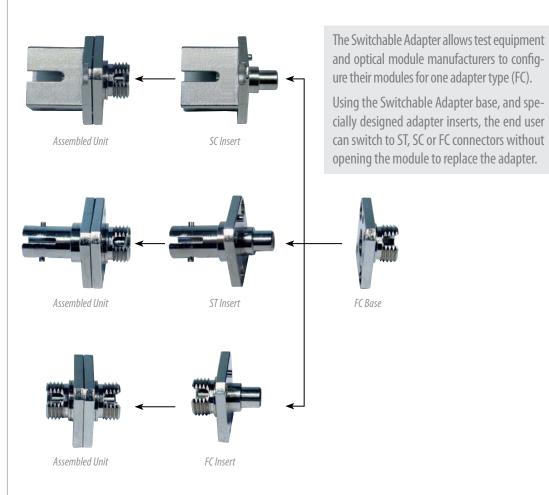
FC-ST Adapter with rectangular flange

CODE			KEY WIDTH				SLEEVE	
284	Square Flange	1	For PC Connector: 2.15	+0.05/-0		01	Zirconia Straight Split	
287	Rectangular Flange					02	Phosphor Bronze	
L								
	OR	DER C	ODE example:.	284	-	101		

Note: Custom configurations available upon request.



Switchable Adapter



APPLICATIONS

- Telecommunications networks
- Metro networks
- CATV Networks
- Fiber optic test
 & measurement
 equipment

FEATURES

- Switchable adapter interface, eliminating need for hybrid cable assemblies
- Easy to clean and maintain
- High precision alignment
- Low insertion loss*

CONFIGURATIONS

- FC/PC to FC/PC
- FC/APC to FC/APC
- FC/PC to SC/PC
- FC/APC to SC/APC
- FC/PC to ST/PC

Note: When following SENKO recommended procedures.

EASY TO CLEAN AND MAINTAIN

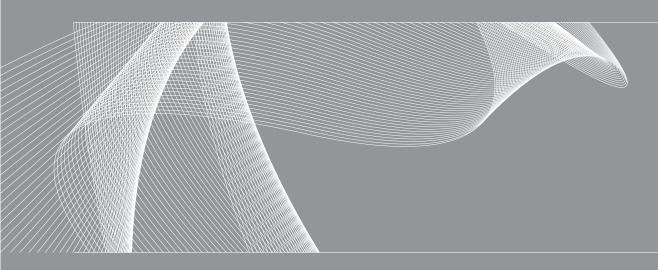
The Switchable Adapter allows the end user to properly clean and maintain both connectors on each side of the bulkhead, as well as the adapter sleeve, without removing the entire adapter from the panel.



CODE		SLEEVE CODE			KEY WIDTH CODE		
321	FC to FC Switchable Adapter	1	Zirconia Straight Split	01	For PC Connector 2.15 +0.05/-0		
322	FC to ST Switchable Adapter	2	Phosphor Bronze	02	For APC Connector 2.05 ±0.02		
323	FC to SC Switchable Adapter						

CODE	PART NUMBER	SLEEVE	KEY WIDTH
FC Switchable Adapter Insert	UA-50007-101 PC	Zirconia	2.15/2.20
	UA-50007-102 APC	Zirconia	2.03/2.07
ST Switchable Adapter Insert	UA-50008-101	Zirconia	
SC Switchable Adapter Insert	UA-50009-101 PC	Zirconia	
	UA-50009-102 APC	Zirconia	

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Connector & Adapter Subcomponents

Zirconia Ferrules SC and FC Singlemode
Zirconia Ferrules SC and FC Multimode
Zirconia Ferrules LC and MU Singlemode

Zirconia Ferrules ST Singlemode and Multimode

Zirconia Ferrules LC and MU Multimode

Zirconia Sleeves

Phosphor Bronze Sleeves

Phosphor Bronze Adapter Sleeves



Zirconia Ferrules

SC-APC and **FC-APC**





SPECIFICATION	
Material	Zirconia
Concentricity (Standard)	Singlemode ≥ 1micron
Inner Diameter Tolerance	Singlemode +1/-0micron
Outer Diameter Tolerance	Singlemode ±0.5micron
Length Tolerance (No flange)	10.5 ±0.05mm
V-Groove	60/90 ±5 degrees

CO	CONNECTOR		ТҮРЕ		ENDFACE		ID		NGE
C	SC & FC Connectors	S	Singlemode	AS	APC Step	125	125µm	NN	N o Flange
				AC	APC Conical	1255	125.5μm	FA	APC Flange*
						126	126µm	1	*Flange key width 1.35mm
	ORDER CODE example:. CSAS - 125 - NN								

Zirconia Ferrules

SC and **FC** Singlemode



SPECIFICATION	
Material	Zirconia
Concentricity (Standard)	Singlemode ≤ 1micron
Inner Diameter Tolerance	Singlemode +1/-0micron
Outer Diameter Tolerance	Singlemode ±0.5micron
Length Tolerance (No flange)	10.5 ±0.05mm
Spherical Radius (pre-dome)	20 + 5/-10
V-Groove	60/90 ±5 degrees

COI	CONNECTOR		TYPE		ENDFACE		ID		NGE
C	SC & FC Connectors	S	Singlemode	PC	Pre-dome	125	125µm	NN	N o Flange
						1255	125.5µm	F4	4 Slot Flange
						126	126µm		
						4			
ORDER CODE example:. CSPC - 125 - NN									

APPLICATIONS

- High performance fiber optic connectors used in environments requiring durability after repeated matings, low insertion loss and low back reflection
- Fiber stub
- SC, FC, ST, D4, MU, LC, DIN and other fiber optic connectors
- Singlemode and multimode

- High performance and durability
- Low insertion loss*
- Low back reflection*
- A PC type with various endface configurations, as well as pre-angled endface for quick polishing and ultra I ow back-reflection
- Standard and custom configuration-

- 1. When following SENKO recommended procedures.
- 2. Custom length, inner and outer diameter dimensions available upon request
- 3. *0.5µm concentricity also available.



Zirconia Ferrules

SC and **FC** Multimode



SPECIFICATION	
Material	Zirconia
Concentricity (Standard)	Multimode ≤ 4micron
Inner Diameter Tolerance	Multimode +4/-0micron
Outer Diameter Tolerance	Multimode ±1micron
Length Tolerance (No flange)	10.5 ±0.1mm
Spherical Radius (pre-dome)	20 + 5/-10
V-Groove	60/90 ±5 degrees

CONNECTOR		ТҮРЕ		ENDFACE		ID			FLANGE	
C	SC & FC Connectors	M	Multimode	PC	Pre-dome	127	127µm		NN	N o Flange
						144	144µm		F4	4 Slot Flange
						230	230µm			
		L				L	1			
		ORD	ER CODE example:.		CMPC -	1	27 -	NN		

Zirconia Ferrules

LC and MU Singlemode





SPECIFICATION	
Material	Zirconia
Concentricity (Standard)	Multimode ≤ 1micron
Inner Diameter Tolerance	Multimode +1/-0micron
Outer Diameter Tolerance	Singlemode ±0.5micron
Length Tolerance (No flange)	6.5 ±0.5mm (MU)
Length folerance (No hange)	6.5 ±0.7mm (LC)
V-Groove	60/90 ±5 degrees

CONNECTOR TYPE		ENDFACE		ID		FLAN		NGE			
	М	MU Connectors	S	Singlemode	FL	Flat	125	125µm		NN	No Flange
	L	LC Connectors					1255	125.5µm		FM	MU Flange
							126	126 µm		FL-35	LC Flange
								7			
			ORD	ER CODE example:.		LSFL	- 1	26 -	FL-35		

APPLICATIONS

- High performance fiber optic connectors used in environments requiring durability after repeated matings, low insertion loss and low back reflection
- Fiber stub
- SC, FC, ST, D4, MU, LC, DIN and other fiber optic connectors
- Singlemode and multimode

FEATURES

- High performance and durability
- Low insertion loss*
- Low back reflection*
- A PC type with various endface configurations, as well as pre-angled endface for quick polishing and ultra I ow back-reflection
- Standard and custom configuration-

Note:

Custom length, inner and outer diameter dimensions available upon request.



Zirconia Ferrules

LC and MU Multimode





SPECIFICATION	
Material	Zirconia
Concentricity (Standard)	Multimode ≤ 4micron
Inner Diameter Tolerance	Multimode +4/-0micron
Outer Diameter Tolerance	Multimode ±1micron
Length Tolerance (No flange)	6.5 ±0.5mm (MU)
Length folerance (No hange)	6.5 ±0.7mm (LC)
V-Groove	60/90 ±5 degrees

COI	CONNECTOR		ТҮРЕ		ENDFACE			FLANGE	
M	MU Connectors	М	Multimode	FL	Flat	126	127µm	NN	No Flange
L	LC Connectors					144	144µm	FM	MU Flange
								FL-35	LC Flange
						L			
						1	1		
		OR	DER CODE example:		LMFL -	126	- FL-35		

Zirconia Ferrules

ST Singlemode and Multimode



For ST Singlemode Connector ø 2.499mm No flange

SPECIFICATION	
Material	Zirconia
Concentricity (Standard)	Singlemode ≤1micron, Multimode ≤ 1micron
Inner Diameter Tolerance	Multimode +1/-0micron, Multimode +4/-0micron
Outer Diameter Tolerance	Singlemode ±0.5micron, Multimode ±1micron
Length Tolerance (No flange)	12.7 +/- 0.05 (SM)
Length Tolerance (No hange)	12.70 +/-0.1 (MM)
Spherical Radius	20 +5/-10
V-Groove	60/90 ±5 degrees

CON	NECTOR	ТҮРЕ		ENDFACE		ID			FLANGE	
T	ST	S	Singlemode	PC	Pre-dome	125	125µm		NN	N o Flange
		М	Multimode			126	126µm			
						127	127µm			
						5				
		OR	DER CODE example:		TSPC -	12	5 -	NN		

APPLICATIONS

- High performance fiber optic connectors used in environments requiring durability after repeated matings, low insertion loss and low back reflection
- Fiber stub
- SC, FC, ST, D4, MU, LC, DIN and other fiber optic connectors
- Singlemode and multimode

FEATURES

- High performance and durability
- Low insertion loss*
- Low back reflection*
- A PC type with various endface configurations, as well as pre-angled endface for quick polishing and ultra I ow back-reflection
- Standard and custom configuration-

Note:

Custom length, inner and outer diameter dimensions available upon request.



Zirconia Sleeves

Zirconia sleeves and tubes are precision manufactured according to strict quality and performance standards. They are available for singlemode and multimode applications.

Reliable mating is assured with strictly controlled dimensions and withdrawal force. Standard stylesor FC include SC, FC, ST, D4, LC and MU, with custom designs also available. Diagonal split sleeves are available for superior durability requirements. Tubes are also available.

SPECIFICATION	ST	SC, FC	LC, MU
Material		Zirconia	
Withdrawal Force	200gf~600gf		100gf~250gf
Insertion Loss		Max 0.5dB,0.1dB typical or be	tter
Durability	< 0.02dB deviation after 1000 matings		
Durability	< 0.02dB after temperature cycle test		
Outer Diameter	3.2 ±0.02mm		1.62 ±0.01mm
Inner Diameter	(2.49)mm		(1.246)mm
Length	10.1 ±0.1mm	11.4 ±0.1mm	6.8 + 0/-0.1mm
Slit Width	Max 0.5 ±0.01mm Max 0.2 ±0.01mm		Max 0.2 ±0.01mm
Chamfer		2 x R0.1	

APPLICATIONS

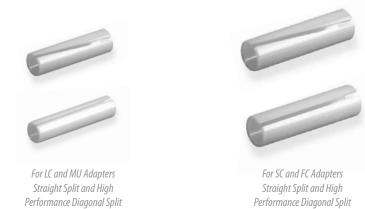
- Singlemode and multimode
- SC, FC, ST, DIN, MU, LC adapters
- Fiber optic receptacles, adapters, attenuators and other

FEATURES

- High quality zirconia material
- High performance and superior durability
- Low insertion loss*

Note: When following SENKO recommended procedures.

Zirconia Sleeves



SLEEV	/E CODE	INNI	ER DIAMETER			LENG	STH
ZRS	Straight Split Sleeve	25	(2.49)mm			101	10.1mm ST
ZRD	Diagonal Split Sleeve					114	11.4mm SC & FC
		ORDER CODE e	example:.	ZRD -	25	- 11	14

SLEE	EVE CODE	INNER DIAMETER LENGTH	
ZRS	Straight Split Sleeve	12 (1.25)mm 680 6.8mm	
ZRD	Diagonal Split Sleeve		
		ORDER CODE example:. ZRS - 12 - 680	

Note:

- 1. Outer and inner diameter dimensions in () are to be considered as references, which shall be adjusted to the required withdrawal force as specified.
- Zirconia tubes also
 available. Custom
 configurations available
 upon request.dimensions
 available upon request.

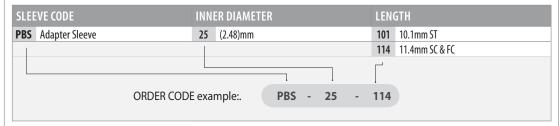


Phosphor Bronze Sleeves

Metal split sleeves are used in adapters for aligning the connector ferrule. They are manufactured for both singlemode and multimode applications. The high quality phosphor bronze material delivers a spring-like property which ensures a strictly controlled withdrawal force of 200 to 600 grams. Tolerance specifications are also well controlled, resulting in a typical insertion loss of 0.1dB* or less.

SPECIFICATION	ST	SC, FC	D4	LC
Material	Phosphor Bronze C5210H			
Withdrawal Force	200gf~600gf		100gf~300gf	
Insertion Loss	Max 0.5dB,typical 0.1dB or better			
Outer Diameter	(3.08)mm		(2.48)mm	(1.62)mm
Inner Diameter	(2.48)mm		(1.98)mm	(1.25)mm
Length	10.1 ±0.1mm	11.4 ±0.1mm	10.4 ±0.1mm &	6.8 ± 0.1 mm
Length	9.88 ±0.1mm			
Slit Width	Max 0.5mm Max 0.2mm			Max 0.2mm
Chamfer	2 x 0.1 +0.1/-0			

Phosphor Bronze Adapter Sleeve For SC and FC Adapters For D4 Adapter For LC and MU Adapters



SLEEVE CODE	INNER DIAMETER	LENGTH
PBS Phosphor Bronze	20 (1.98)mm	104 10.4mm
		988 9.88mm
ORDER COL	DE example:. PBS - 20 -	988

SLEEVE CODE	INNER DIAMETER	R	LENG	STH
PBS Phosphor Bronze	12 (1.25)mm		680	6.80mm
	L		ſ	
(ORDER CODE example:.	PBS - 12	- 680	

APPLICATIONS

- Singlemode and multimode
- SC, FC, ST, D4, MU, LC and DIN adapters
- Fiber optic receptacles, adapters, attenuators and other

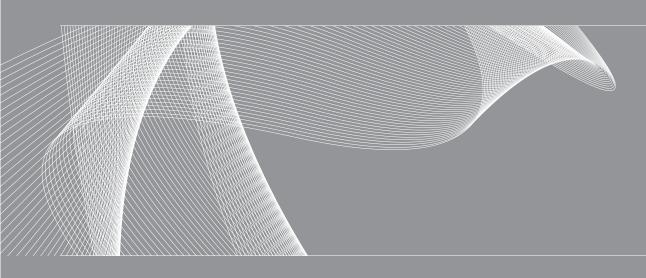
FEATURES

- High quality phosphor bronze material
- High performance and superior durability
- Low insertion loss*

Note:

- 1. When following SENKO recommended procedures.
- 2. MU Phosphor Bronze Sleeve specifications available upon request.
- 3. Outer and inner diameter dimensions in () are to be considered as references, which shall be adjusted to the required withdrawal force as specified.

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POLISHING SYSTEMS

APC 8000 High Volume Polisher Polishing Fixture Package Polishing Rubber Pads Polishing Films



APC-8000

High Volume Polisher

The APC-8000 features a superior fixture-to-platten locking mechanism and other design enhancements to give the user consistent polishing results at high production volumes. The fixture-to-platten locking mechanism confines motion to vertical plane, eliminating horizontal movement that may cause damage to the fiber. Polishing results are consistent and yield end face geometry exceeding GR-326-CORE standards*. In addition, the user can polish as little as three connectors at a time without the need to use additional dummy connectors to completely fill the fixture.

The polisher also features an improved safety cover assembly which forms an enclosure around the fixture to confine water within the polishing area. A labyrinth seal platten sits on top of a one-piece water tray for collecting polishing runoff. As a result, the machine does not require frequent maintenance and lubrication, and the polishing procedure is effective and hassle-free. Like previous models, the APC-8000 features a dual concentric drive motion for multi-axis pol-

ishing, but features a wider range of speeds available to the user for greater control over polishing cycle and throughput. Polishing can be done at higher speeds without compromising quality.

The APC-8000's expanded software capabilities and safety features make it easy and safe to use. It features a step-by-step automated guidance system, a sensor switch that prevents operation when the cover is open, an onscreen warning system, and an emergency stop button with a key-operated release. The software stores up to 35 recipes, with 10 polishing steps per recipe. The APC-8000 is a free-floating fixture polisher for polishing industry standard, small form factor and multifiber connectors. New fixtures will hold between 12 and 48 connectors or ferrules, depending on connector type. Fixtures from previous models (APC-7000 and APC-9000) may be adjusted for full compatibility with the APC-8000. Please contact a SENKO representative for more information.

FIXTURE-TO-PLATTEN LOCKING MECHANISM

- Fixture incorporates 3 locator posts which mate firmly with slots in the safety cover assembly during locked position
- Locking mechanism confines motion to a vertical plane, eliminating unwanted horizontal motion
- Offers consistent polishing results even at high platten speeds
- · User can polish as little as three connectors at a time

SAFETY FEATURES

- CE Approval
- Sensor detects when cover is open and prevent operation.
- Emergency stop button with key-operated release
- · Machine does not operate unless fixture posts are aligned with cover and fixture is in contact with rubber pad and platten
- Polishing machine stalls if it senses an obstruction between the fixture and the platten before the 3 locator posts are in place





APPLICATIONS

- High production polishing of industry standard fiber optic connectors and adapters
- Polishing of glass capillaries and fiber

FEATURES

- · Enhanced fixture-toplatten alignment mechanism for eliminating unwanted motion on horizontal plane
- Improved safety cover assembly confining water with in the actual polishing area only
- · Wide range of speeds for greater control over polishing regime and throughput
- Enhanced software capabilities, with more than 35 programmable recipes, 10 steps per recipe
- Step-by-step guidance and on-screen warning system
- **Expanded safety** features
- Universal fixture diameter, compatible with fixtures from previous models

CONNECTOR CAPABILITY

- LC-UPC, LC-APC
- MU-UPC
- SC-UPC, SC-APC
- FC-UPC, FC-APC
- ST-UPC
- E2000[™], E2000[™]-APC
- MT-RJ, MT, Angled MT
- SMA





POLISHING SYSTEM

Polishing Fixture Packages







MT Fixture LC Fixture

PRODUCT NUMBER	POLISHING FIXTURE	PACKAGES POSITIONS	NOTE
MU-1.25-24-8	MU One-piece Connector Fixture	24	
LC-1.25-24-8	LC One-piece Connector Fixture	24	
UPC-1.25-36-8	LC/MU Locking Ferrule Fixture	48	
UPC-2.5-24-8	2.5mm UPC Locking Ferrule Fixture	36	SC/FC/E2000-UPC/SC
UPC-LF-8	Universal Loading Fixture		
E-2000-APC-12-8	APC Ferrule Fixture	12	
SC-APC2.5-18-X	SC/APC One-piece, 2.5mm	18	(X) Specify ferrule tip during order
FC-APC2.5-18-X	FC/APC One-piece, 2.5mm	18	(X) Specify ferrule tip during order
SC-UPC2.5-18-8	SC/UPC One-piece, 2.5mm	18	
SC-UPC2.5-18-8	SC/UPC One-piece, 2.5mm	18	
FC-UPC-2.5-18-8	FC/UPC One-piece, 2.5mm	18	
ST-UPC2.5-18-8	ST/UPC One-piece, 2.5mm	18	
SMA-12-8	SMA Fixture, only for 1-piece connectors	12	For critical ferrule end-length applications
MT-12-8	MT Fixture	12	
AMT-12-8	Angled MT Fixture	12	

POLISHING SYSTEM

Polishing Rubber Pads



All rubber pad consumables are certified for hardness and parallelism. Pads are available with durometer specifications and color coding found below.

PRODUCT NUMBER	COLOR	DESCRIPTION
RUG55.0-90	Black	5"X5mm 90 duro
RUG55.0-85	Grey	5"x5mm 85 duro
RUG55.0-80	Green	5"x5mm 80 duro
RUG55.0-75	Brown	5"x5mm 75 duro
RUG55.0-70	Violet	5"x5mm 70 duro
RUG55.0-65	Dark Blue	5"x5mm 65 duro
RUG55.0-60	Blue	5"x5mm 60 duro
RUG55.0-55	Rust	5"x5mm 55 duro
RUG55.0-50	Red	5"x5mm 50 duro
RUG55.0-45	Burgundy	5"x5mm 45 duro
RUG55.0-40	Orange	5"x5mm 40 duro

ORDER CODE example:.

RUG55.0-90

PRECISION FIXTURE TOOLING

- · Highly durable
- Corrosion resistant
- Custom development available

SPECIFICATIONS

- Thickness: 2.5mm ~ 5.5mm
- Parallelism: ± 0.05mm
- Durometer: 40 ~ 90
- Durometer Tolerance: ± 2.5

Note:

4.8mm, 4.9mm thicknesses and custom types available upon request.



POLISHING SYSTEM

Polishing Films

SENKO Polishing Films are available with surface textures and particle density to suit the end user's performance requirements. Films are lot tested for quality, consistency and longevity. A range of films are available for epoxy removal, grinding, fine polish and cleaning of industry standard fiber optic connectors and ferrules.



ORDER CODE (POLISHING FILMS)

PRODUCT NUMBER	DESCRIPTION	DIAMETER
LFC010-XN	Silicon Carbide, 30μm	(X) Specify 4" or 5"
LFC030-XN	Silicon Carbide, 15µm	(X) Specify 4" or 5"
LFC050-XN	Silicon Carbide, 9µm	(X) Specify 4" or 5"
LFD050-X	Diamond, 9um	(X) Specify 4" or 5"
LFD100-X	Diamond, 6µm	(X) Specify 4" or 5"
LFD200-X	Diamond, 3µm	(X) Specify 4" or 5"
LFD250-X	Diamond, 1µm	(X) Specify 4" or 5"
LFD300-X	Diamond, 0.5μm	(X) Specify 4" or 5"
LFOSO1-XN	UPC Final Polishing Film	(X) Specify 4" or 5"
LFF500-5N	Cleaning Film	5 inches

ORDER CODE (MT POLISHING FILMS)

PRODUCT NUMBER	DESCRIPTION
LFC010-5NP	PSA Type, Silicon Carbide, 30µm
LFC030-5NP	PSA Type, Silicon Carbide, 15µm
LFC200-5NP	PSA Type, Silicon Carbide, 3μm
LFFC200-5NP	PSA Type, Flocked Silicon Carbide, 3µm
LFFA0250-5NP	PSA Type, Flocked Aluminum Oxide, 1µm
LFFA0300-5NP	PSA Type, Flocked Aluminum Oxide, 0.5µm
LFFCO300-5NP	PSA Type, Flocked Cerium Oxide, 0.5µm
LFF500-5N	Non-PSA Type Buffing Film
LSS-1	Colloidal Silica Suspension

ORDER CODE example:.

LFC010-XN

APPLICATION

- Industry standard fiber optic connectors
- Ferrules
- Epoxy removal, grinding, fine polish and cleaning

FEATURES

- Consistent particle deposition
- · Various film diameters
- Various particle sizes

COMPATIBILITY

Films are compatible with the following connector styles:

- LC-UPC, LC-APC
- MU-UPC
- SC-UPC, SC-APC
- FC-UPC, FC-APC
- ST-UPC
- E2000-UPC, E2000-APC



POLISHING FILMS

Longlife Diamond Series



LongLife Series (LFD250-5X-L & LFD200-5X-L)

The LongLife Diamond Series is used to grind and polish the connector endface to a smooth surface as illustrated in the figures below (please refer to Polishing-1 and Polishing-2).

PRODUCT	PARTICLE SIZE	BASE MATERIAL THICKNESS
LFD200-5X	3.0µm	75.0μm
LFD250-5X	1.0µm	75.0μm

APC SERIES (SENKO)

POLISHING PROCESS	FILM	TIME	FLUID	GRAM FORCE PER CONNECTOR	RPM
Adhesive Removal	LFC030-5N	30sec	None	120	100
Polishing-1	LFD200-5S	30sec	Water	210	150
Polishing-2	LFD250-5S	90sec	Water	210	150
Finishing	LF0S-01-05	120sec	Water	210	150

POLISHING FILM ORDER CODE: LONGLIFE SERIES

PRODUCT NUMBER	DESCRIPTION
LFC030-5N	Silicon Carbide Epoxy Removal Film (15μm), 5 Inch diameter
LFD100-5X-L	Diamond Polishing Film (6μm) 5 Inch diameter
LFD200-5X-L	Diamond Polishing Film (3µm) 5 Inch diameter
LFD250-5X-L	Diamond Polishing Film (1µm) 5 Inch diameter
LFD300-5X-L	Diamond Polishing Film (0.5µm) 5 Inch diameter
LFF500-5N	Cleaning Film — 5 Inch diameter
LFD100-6x6-L	Diamond Polishing Film (6μm) — 6 x 6 Inch square
LFD200-6x6D-L	Diamond Polishing Film (3μm) — 6 x 6 Inch square
LFD250-6x6D-L	Diamond Polishing Film (1μm) — 6 x 6 Inch square

ORDER CODE example:.

LFD100-5X-L

APPLICATION

- Industry standard fiber optic ceramic connectors
- Ceramic ferrules
- Grinding and polishing

FEATURES

- Fewer scratches when compared to other grinding films
- Long life
- Mirror-like surface when followed with FOS-01
- Can be used up to 30 times*

Note:
Depending on polishing process and condition being used.

POLISHING FILMS

LFD Diamond Series





LFD Diamond Series (LFD250-5X & LFD200-5X)

The LFD Diamond Series is used to grind and polish the connector endface to a smooth surface.

PRODUCT NUMBER	DESCRIPTION
LFD100-5X	Diamond Polishing Film (6μm) 5 Inch diameter
LFD200-5X	Diamond Polishing Film (3μm) 5 Inch diameter
LFD250-5X	Diamond Polishing Film (1µm) 5 Inch diameter
LFD300-5X	Diamond Polishing Film (0.5μm) 5 Inch diameter
LFD100-6x6	Diamond Polishing Film (6μm) — 6 x 6 Inch square
LFD200-6x6D	Diamond Polishing Film (3μm) — 6 x 6 Inch square
LFD250-6x6D	Diamond Polishing Film (1μm) — 6 x 6 Inch square

ORDER CODE example:.

LFD100-5X

APPLICATION

- Industry standard fiber optic ceramic connectors
- Ceramic ferrules
- Grinding and polishing

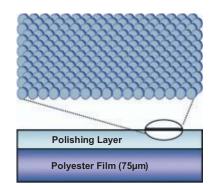
- Fewer scratches when compared to other grinding films
- Long life
- Mirror-like surface when followed with FOS-01
- Can be used up to 10 times



POLISHING FILMS

FOS-01 Final Polish Series





FOS-01 Series

Final Polishing Film, FOS-01

• US. Patented

FOS-01 is a highly efficient final polishing film manufactured using an advanced coating technology. This superior polishing film is formulated using ultra-fine particles which are uniformly deposited on a polyester film surface, without irregular height protrusions. FOS-01 is specifically designed for polishing fiber optic connector ferrules used in high performance applications.

SPECIFICATION	F0S-01
Particle Size	< 0.1µm
Coating weight (g/m2)	6.0
Film surface roughness (μm)	0.15
Polisher	All SENKO APC Series Polishers
Return loss (dB)	<-55 dB
Fiber height (nm)	0~50
Radius of curvature (mm)	10~25
Apex offset (µm)	< 50



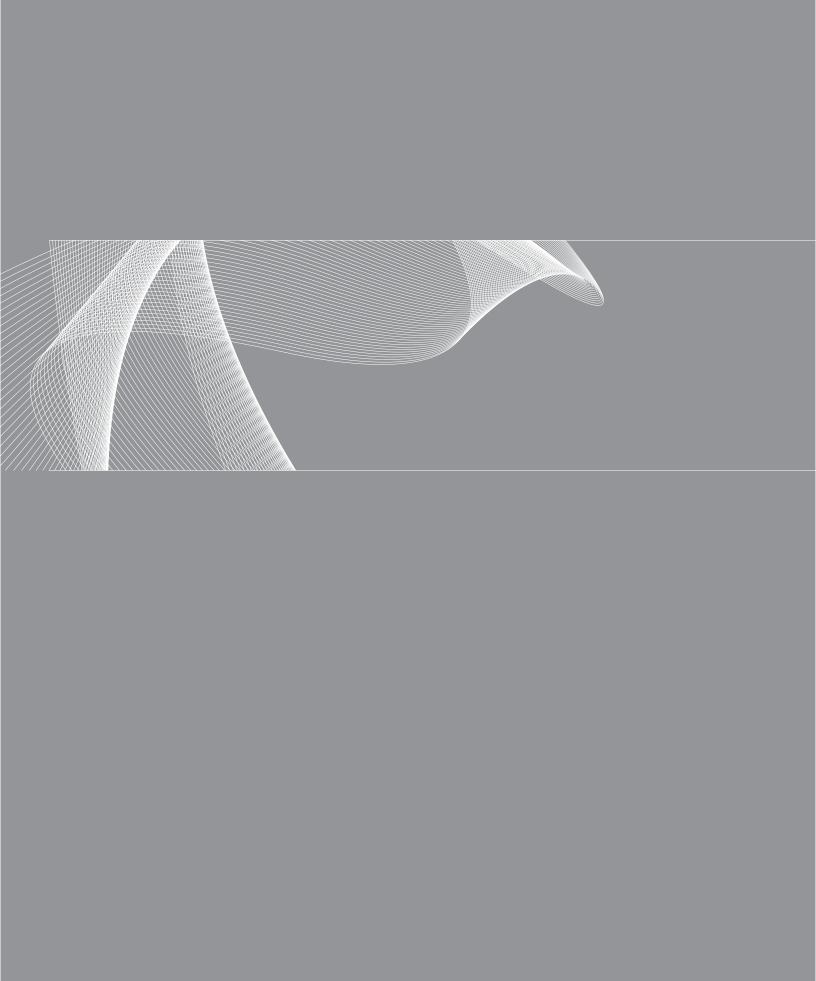
POLISHING FILM ORDER CODE: FOS-01 AND LFD SERIES

	PRODUCT NUMBER	DESCRIPTION
	LFOS-01-5N	UPC Final Polishing Film, 5 Inch diameter
	LFOS-01-6x6	UPC Final Polishing Film — 6 x 6 Inch square
ORDER CODE example:.		E example:. LFOS-01-5N

APPLICATION

- Industry standard fiber optic ceramic connectors
- Ceramic ferrules
- UPC final polish

- Easy to use
- · Clean (slurry-free) work environment
- Simplified polishing process
- Polishes without scratching, ideal for connectors used in high performance applications
- Special binder containing ultra-fine polishing particles <0.1µm in size
- Excellent uniformity of particle deposition





SENKO Advanced Components, Incorporated is a recognized global leader in the design, production, sales, marketing and distribution of over 1000 fiber optic products. It is headquartered in Boston, Massachusetts, USA and is the fiber optic division of the Japan based SENKO Group.

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