



## 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 Terminations, 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
Insertion Loss	Premium Connector UPC	0.08dB Typical	0.15dB
	Premium Connector APC	0.10dB Typical	
	Standard Connector	0.12dB Typical	0.20dB
Return Loss		≥ 55dB typical (PC) ≥ 68dB typical (APC)	
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
Ferrule Hole Sizes (Custom sizes available)		126µm +1/-0    Concentricity: ≤ 1µm 125µm +1/-0    Concentricity: ≤ 1µm 125.5µm +1/-0    Concentricity: ≤ 1µm	127µm (MM) 144µm (MM) 230µm (MM)

\* Using SM fiber cable assembly. Specifications shown above were obtained using Huake recommended products and procedures.

## SC Premium

## 1 PC Connector



900µm Premium



2.0mm Premium



3.0mm Premium

CONNECTOR	FERRULE I.D.	HOUSING	BOOT	BOOT COLOR
254 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	
		A 2.0mm Premium (Telcordia)		
		B 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

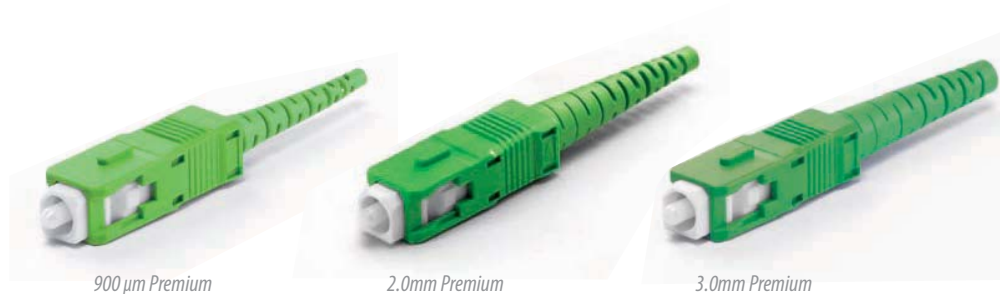
- Compliance with Telcordia, TIA/IEA, IEC and JIS
- interface specifications
- Low insertion loss & back reflection\*
- Tunable with Senko tuning tool
- One-piece construction & pull-proof design
- Free-floating ceramic ferrule
- Precision anti-rotation key and corrosion resistant body
- UL-rated plastic 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



900µm Premium

2.0mm Premium

3.0mm Premium

FERRULE TYPE	FERRULE I.D.	POLISH	BOOT
<b>291</b> Step	191 SM: 125.5µm	1 No Angle	1 3.0mm Cable Standard
<b>294</b> 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
			<b>7 3.0mm Premium (Telcordia)</b>
			<b>8 900µm Premium (Telcordia)</b>
			9 2.0mm Cable Standard
			<b>A 2.0mm Premium (Telcordia)</b>
			<b>B 900µm Fiber Boot</b>

ORDER CODE example:.

**294 - 191 - 24**

#### 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

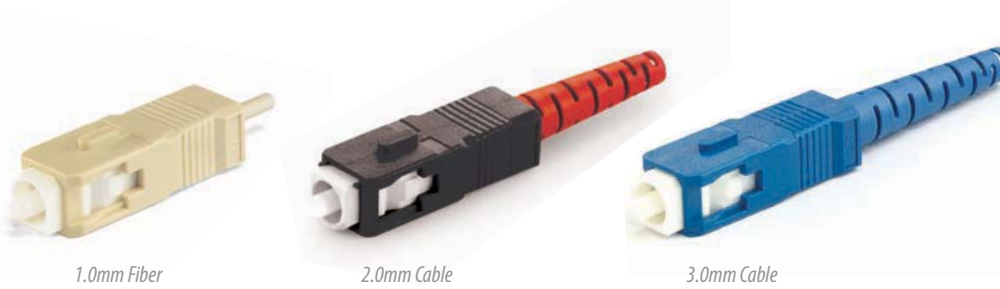
#### FEATURES

- 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 Standard

### 1 PC Connector



1.0mm Fiber

2.0mm Cable

3.0mm Cable

CONNECTOR	FERRULE I.D.	HOUSING	BOOT	BOOT COLOR
<b>231</b> Pre-assembled	191 SM: 125.5µm	6 Blue	1 3.0mm Cable Standard	1 Blue
<b>232</b> 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

ORDER CODE example:.

**231 - 191 - 621**

## SC Connector Kit

### NTT Style



900µm Fiber

2.0mm Cable

3.0mm Cable

#### 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

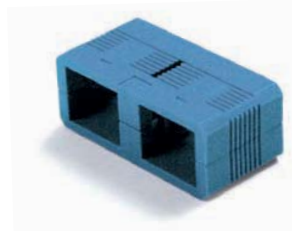
CODE	OUTER HOUSING	BOOT TYPE	BOOT COLOR
132	A11 Blue with White line	7 3mm Cable Long	1 Blue
	B11 Black with White Line	9 2mm Cable Long	2 Black
	C11 Beige with White Line	D 900µm Slotted Fiber Boot	3 Green
	D11 Green with White Line		4 Red
			8 Beige

ORDER CODE example: **132 - A11 - D1**

## SC Duplex Clip



SC Duplex Clip Premium



SC Duplex Clip Standard

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

CODE	COLOR
224 SC Duplex Clip for Premium Connector	591 Black
274 SC Duplex Clip for Standard Connector	592 Green
	593 Blue
	594 Beige
	595 Red

ORDER CODE example: **274 - 595**



## 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

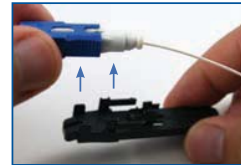
1 - Cutting Fiber



2 - Inserting Fiber



3 - Take out Connector



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

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

### APPLICATIONS

- Data Centers
- LAN
- Telecommunications
- Network Monitoring
- FTTX

### FEATURES

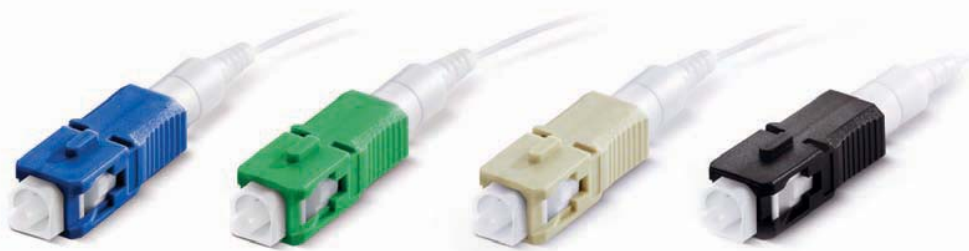
- Mechanical Splice (index matching gel)
- Highly Stable & Reliable
- Perfect Performance
- Compact Package
- RoHS Compliant
- Finished Connector meets UL94-V0 Flammability Rated

Note:

1. The connector performance specifications include an internal mechanical splice.
2. Typical specification values are at 23°C ±5°C.

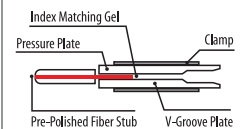
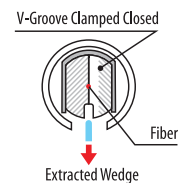
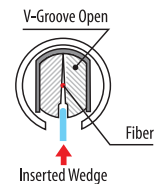
## XP Fit Plus

## SC Field Installable Connector



PART NUMBER	DESCRIPTION	HOUSING	BOOT COLOR
<b>318-191-627</b>	XPFit Plus SC Connector SM PC 900µm	Blue	White
<b>318-091-427</b>	XPFit Plus SC Connector SC APC 900µm	Green	White
<b>318-291-727</b>	XPFit Plus SC Connector MM 50/125 900µm	Black	White
<b>318-391-927</b>	XPFit Plus SC Connector MM 62.5/125 900µm	Beige	White
<b>318-491-527</b>	XPFit Plus SC Connector MM 50/125 10G OM3 900µm	Aqua	White

PART NUMBER	DESCRIPTION	HOUSING	BOOT COLOR
<b>318-191-617</b>	XPFit Plus SC Connector SM PC 250µm	Blue	White
<b>318-091-417</b>	XPFit Plus SC Connector SM APC 250µm	Green	White
<b>318-291-717</b>	XPFit Plus SC Connector MM 50/125 250µm	Black	White
<b>318-391-917</b>	XPFit Plus SC Connector MM 62.5/125 250µm	Beige	White
<b>318-491-517</b>	XPFit Plus SC Connector MM 50/125 10G OM3 250µm	Aqua	White



## SC Simplified

## Connector and Adapter



*Note:*  
Custom configuration  
available upon request

CONNECTOR CODE	FERRULE	BOOT TYPE	BOOT COLOR
<b>774</b>	191 SM: 125.5µm	2 1.0 mm Fiber	2 Black
	192 SM: 126µm		
	193 SM: 125µm		

ORDER CODE example: **774 - 191 - 22**

ADAPTER CODE	TYPE	SLEEVE	HOUSING COLOR
<b>229</b>	1 Simplex	1 Zirconia Straight Split	1 Blue
	2 Duplex	2 Phosphor Bronze Sleeve	
	3 8 ways		
	4 10 ways		

ORDER CODE example: **229 - 111**

## SC Crimp Tool



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

CODE	CONNECTOR TYPE
<b>CRT</b>	401 SC, FC, ST One Piece Connectors
	501 SC Connector Kit

## SC Adapter Series

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

Specifications shown above were obtained using HUAKE 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

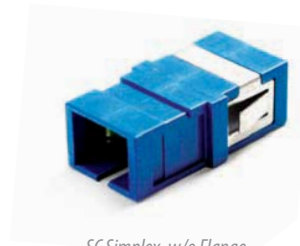
## Simplex



SC Simplex, w/Flange



SC Simplex, w/Flange



SC Simplex, w/o Flange

CODE	TYPE	COLOR	SLEEVE TYPE	HOOK MATERIAL	SHUTTER
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			

ORDER CODE example: **222 - 101 - 1N**

### APPLICATIONS

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

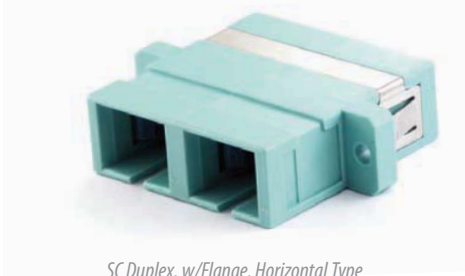
### FEATURES

- 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

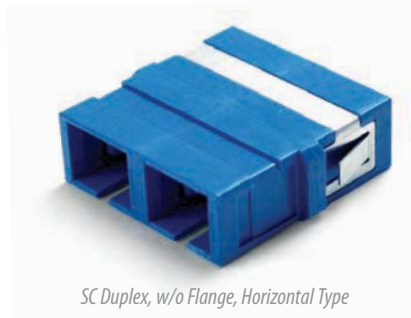
*Note:*  
Custom configuration available upon request

## SC Adapter

## Duplex



SC Duplex, w/Flange, Horizontal Type



SC Duplex, w/o Flange, Horizontal Type

### 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

CODE	TYPE	COLOR	SLEEVE TYPE	HOOK MATERIAL	SHUTTER	
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				

ORDER CODE example: **222 - 2 01 - 1N**

## SC One Piece Adapter

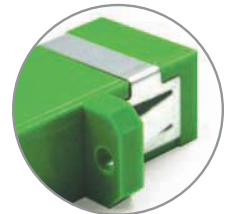


SC One Piece Adapter  
No Weld Type



SC One Piece Adapter  
No Weld Type

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

CODE	TYPE	COLOR	SLEEVE TYPE	HOOK MATERIAL	SHUTTER	
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 - 1 01 - 1N**



## SC Shutter

## Internal and External

HUAKE offers both an external and internal shutters for adapters to shield potentially harmful light. HUAKE'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. HUAKE'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

CODE	TYPE	COLOR	SLEEVE TYPE	HOOK MATERIAL	SHUTTER			
222	Flange	1	Simplex	0 Blue	1 Zirconia	1 High Tg	A	Internal Shutter (w/o mark)
227	No Flange	2	Dup. Horizontal	1 Green	2 Phosphor Bronze	2 PBT	B	Internal Shutter (w/mark)
		2		2 Beige		3 PPS		
		3		3 Black				
		4		4 Red				
		5		5 Yellow				
		9		9 Aqua				
		T		T Clear				

ORDER CODE example: **222 - 201 - 1A**

CODE	DESCRIPTION
222-2-05	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

CODE	HOOK COLOR	SLEEVE	
226	Simplex	1 High Tg	01 Zirconia Straight Split
228	Duplex Horizontal	2 Blue (PBT)	02 Phosphor Bronze
		3 Brown (PPS)	

ORDER CODE example: **226 - 101**