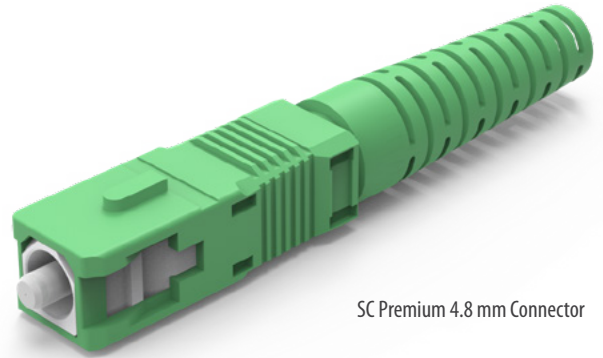


## **SC PREMIUM CONNECTOR**

### **UPC/APC**

### **4.8mm Boot**



SC Premium 4.8 mm Connector

SENKO's SC Connector 4.8 mm boot has been designed to be used with the rugged 4.8 mm cable commonly used in Fiber-to-the-home (FTTH) subscriber drop cable applications. This combination of connector and cable provides a robust and reliable solution for applications where a more rugged solution is required.

The SC Connector 4.8 mm boot, derived from SENKO's renowned SC Premium Connector line, offers exceptional low-loss performance and consistent, high-quality optical performance. Featuring top-grade components and precise keying, it ensures optimal fiber core alignment, significantly reducing Apex Offset and delivering excellent Insertion Loss and Return Loss.

As with all SENKO SC Connector ranges, the SC Connector 4.8 it is fully compliant to IEC 61754-4 with a push-pull mechanism and 2.5 mm ferrules and can be configured to suit Singlemode and Multimode fiber.

#### FEATURES

- Designed for 4.8 mm cable
- Push-pull coupling mechanism for repeatable and simple installation
- Singlemode and multi-mode fiber
- Designed to the requirements of IEC 61754-4
- UL rated plastic housing and boots

#### APPLICATIONS

- FTTH networks
- Optical network terminal (ONT)
- Network interface device (NID)
- Outdoor subscriber drop cables
- Outdoor telecommunications networks
- High definition surveillance cameras

#### KEY BENEFITS

- ✓ **Optimized for FTTH applications**
- ✓ **Rugged and robust solution**
- ✓ **Industry leading Low Loss performance**
- ✓ **Reliable performance even in extreme temperatures**

## Mechanical Data

	Value
Durability	500 matings per TIA-568.3
Cable Suitability	4.8 mm
Boot Size	4.8 mm
Boot Type	Standard
Ferrule Material	Zirconia

## Optical Data

	Singlemode				Multimode
	UPC		APC		MM
	Low Loss	Premium	Low Loss	Premium	Premium
Typical Insertion Loss (dB)*	0.05	0.08	0.07	0.12	0.10
Max. Insertion Loss (dB)*	0.15	0.20	0.15	0.25	0.20
Typical Return Loss (dB)*	≥55		≥65		≥25
Ferrule Diameter (µm)	125				127

\* Based on master grade jumper to low loss random mating test

## Environmental Data

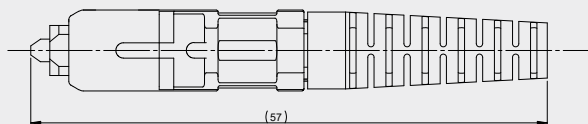
	Value
Operating Temperature	-40°C to +75°C
RoHS Compliance	Yes
REACH Compliance	Yes
Humidity Resistance	95%

# SC PREMIUM CONNECTOR

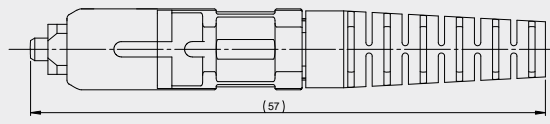
## 4.8 mm 554/591/594 Series

### Connector Drawing

Side View - APC Conical Ferrule

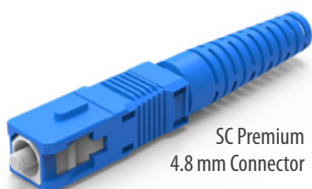


Side View - PC Ferrule



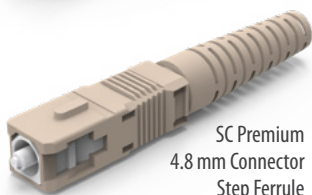
Note: 1. All dimensions are in mm.  
 2. Other boot options are available upon request.  
 3. Specifications subject to change without notice.

### ORDERING



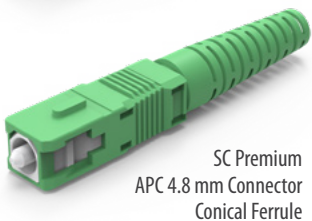
CONNECTOR	FERRULE TYPE	HOUSING	BOOT TYPE	BOOT COLOR
554	193 SM: Premium 125 μm	6 Blue	1 4.8 mm Boot	1 Blue
	199 SM: Low Loss 125 μm	8 Beige		8 Beige
	291 MM: 127 μm			

554 - 193 - 611 ORDER CODE example



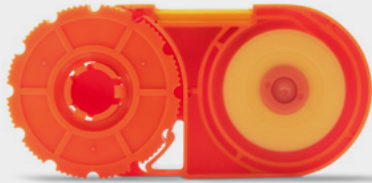
CONNECTOR	FERRULE TYPE	POLISH	BOOT TYPE
591	193 SM: Premium 125 μm	1 No Angle	1 4.8 mm Boot
594	199 SM: Low Loss 125 μm	2 8° Pre-angle	

591 - 193 - 11 ORDER CODE example



**Accessories - Production/Cleaning**

**Smart Cleaner™**  
Cassette  
PN: SCK-CC-100



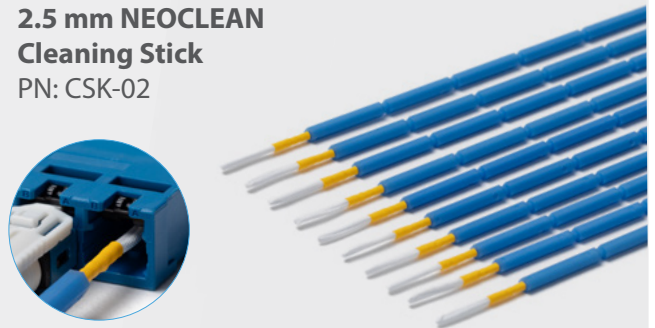
**Smart Cleaner™**  
2.5 mm Clicker  
PN: SCK-SS-250  
Refill PN: SCK-SS-250-R



**SC Crimp Tool**  
PN: CRT-401 SC, FC, ST One Piece Connectors  
CRT-501 SC Connector Kit 132 Series  
CRT-705 SC/LC 1.2 mm Connector



**2.5 mm NEOCLEAN  
Cleaning Stick**  
PN: CSK-02



**Accessories - Interferometry**

**SUMIX Max W+ Inspection Scope**  
PN: SMX-MANTA-W+



The MANTA W+ inspection scope is designed for high-performance inspection of all types of single fiber and multi-fiber optical connectors, patch cords and bulkheads. The MANTA HM inspection scope is used to detect scratches, contamination and other surface defects as small as 0.75 µm on the end face of the connector.

**SUMIX Max QM+ Inspection Scope**  
PN: MAX-QM+



The MAX-QS+ is a white-light and phase-shift interferometer for inspection of single fiber ST, FC, SC, LC, CS, SN, E2000™ (PC and APC), small format multi-fiber MT-RJ (PC and APC), SMA and special connectors. MAX-QS+ features portable design, autofocus, 100 micron scan range for fiber height and resolution of 1.1 µm.

Contact [sales@senko.com](mailto:sales@senko.com)  
or visit our website for more details



# SENKO<sup>®</sup>

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