

FC Connectors Family

The FC Connector named as Fixed Connection Connector, which is originally developed by Seiko Instruments. It is one of the most popular connectors, because of its rugged metal housing, designed for use in unstable environments which provides a secure connection. The FC is a screw-in (thread) connector and has to be turned to make or break connection.

The SAISO FC connector is available in both singlemode and multimode versions, and fully intermateable with NTT-FC products. Both singlemode and multimode have zirconia ferrules with pre-radiused PC profile and convex spherical end, or the 8o angle (SM) in a step or conical endface for the APC version. All our FC connectors are able to achieve low optical loss and back reflection while ensuring maximum repeatability. FC 1pc Connector and FC Connector kits are available for choices from us.

⊙ Features

- Metal screw-in(thread) housing makes a secure connection
- Precision anti-rotation key and corrosion resistant body
- Low insertion and back reflection loss
- Free-floating ceramic ferrule
- Available with a full range of UL-rated FC boots
- Compliance with Telcordia, TIA/IEA, IEC and JIS

⊙ Specification

Item	Singlemode		Multimode	
	Insertion Loss	Standard	0.12dB Typical	Standard
Premium		0.08dB Typical	Premium	0.15dB Typical (127µm)
Return Loss	≥55dB Typical (PC)		≥30dB (PC)	
	≥65dB Typical (APC)			
Durability	≤0.1dB typical change, 500 matings		≤0.1dB typical change, 500 matings	
Ferrule Hole Sizes (Custom sizes available)	125µm +1/-0, Concentricity: ≤1µm		127µm, Concentricity: ≤4µm	
	125.5µm +1/-0, Concentricity: ≤µm			
Operating Temperature	-40°C to +75°C		-40°C to +75°C	

*The above Specifications were obtained by using SAISO recommended products and procedures.

FC/UPC Connectors



0.9mm Pro FC/UPC

Connector		Ferrule Type		Boot Size		Boot Color		Boot Type	
597	FC/UPC 1pc	201	SM Standard 125µm	1	0.9mm	L	Blue	T	Standard
		205	SM Premium 125µm	2	2.0mm	B	Beige	R	Rubber(2.0/3.0)
		405	MM Premium 127µm	3	3.0mm	K	Black		
						R	Red		
						Y	Yellow		

Ordering Example: 597-202-2KR

FC/APC Pro Connectors



0.9mm Pro FC/APC

Connector		Ferrule Type		Boot Size		Boot Color		Boot Type	
598	FC/UPC 1pc	201	SM Standard 125µm	1	0.9mm	L	Blue	T	Standard
		205	SM Premium 125µm	2	2.0mm	B	Beige	R	Rubber(2.0/3.0)
		405	MM Premium 127µm	3	3.0mm	K	Black		
						R	Red		
						Y	Yellow		

Ordering Example: 598-C201-1T

FC/UPC Standard Connectors



0.9mm Standard



3.0mm Standard

Connector		Ferrule Type		Boot Size		Boot Color		Boot Type	
521	FC/UPC 1pc	201	SM Standard 125µm	1	0.9mm	L	Blue	T	Standard
		205	SM Premium 125µm	2	2.0mm	B	Beige	R	Rubber(2.0/3.0)
		405	MM Premium 127µm	3	3.0mm	K	Black		
						R	Red		
						Y	Yellow		

Ordering Example: 521-202-2KR

FC/APC Standard Connectors



0.9mm APC Standard



3.0mm APC Standard

Connector		Ferrule Type		Boot Size		Boot Color		Boot Type	
528	FC/APC 1pc	201	SM Standard 125µm	1	0.9mm	L	Blue	T	Standard
		205	SM Premium 125µm	2	2.0mm	B	Beige	R	Rubber(2.0/3.0)
		405	MM Premium 127µm	3	3.0mm	K	Black		
						R	Red		
						Y	Yellow		

Ordering Example: 528-C201-1T

FC Adapters

SAISO provides a variety of FC Adapters in Round, Solid, Split and Oval mount configurations with a choice of zirconia or phosphor bronze sleeves. They perform well withdrawal force.

The FC Round and Square Adapters are available in the standard body styles with nickel plated brass or nickel plated zinc housing, they are available both of singlemode and multimode with different shape of flanges. SAISO is providing FC Adapters with Standard and Premium two quality levels for choices, to better suit different applications and requirements. The plastic FC Adapters are available upon request.

⊙ Features

- High precision alignment
- Both of nickel plated brass or zinc housing are available
- Low insertion and back reflection loss
- Telcordia, TIA/IEA, IEC and JIS compliance
- NTT-FC compatibility

⊙ Specification

Item	Value
Insertion Loss	Zirconia Sleeve: 0.10dB typical, ≤0.20dB Max Phosphor Bronze Sleeve: 0.15dB typical, ≤0.30dB Max
Durability	≤0.1dB typical change, 500 matings
Sleeve/Ferrule Withdrawal Force	2.0N ~ 5.9N (200gf ~ 600gf)
Operating Temperature	-40°C to +75°C

*The above Specifications were obtained by using SAISO recommended products and procedures.



FC Solid Adapter



FC Split Adapter



FC Oval Adapter

Adapter		Flange		Sleeve		Key Width	
557	FC(Nickel Brass Plated)	1	"DD" , ø11mm	1	Zirconia	P	For PC Connector, 2.15mm
		2	"D" , ø14mm	2	Phosphor Bronze	A	For APC Connector, 2.05mm
		3	Solid				
		4	Split				
		5	Oval				
		6	Rectangular				

Ordering Example: 557-11P