

Connectors

SC (PC, APC, Single/Multi-mode), LC (PC, APC, Single/Multi-mode), ST (PC, APC, Single/Multi-mode), FC (PC, APC, Single/Multi-mode), E2000

SC Connectors

SC connectors are widely used in modern network applications due to their simplicity and cost-effectiveness. They consist of a plastic body and fewer parts compared to other connectors, making them a practical choice for many installations. SC connectors are available in both single mode and multimode versions, with both PC and APC polishing options. The SC connector also offers versatility in terms of cable diameters, with standard boots available for 900µm, 2mm, and 3mm cables. These connectors come in standard colors such as blue, green, and beige, making them easy to identify and use in a variety of applications. At Savitri Telecom Services, we offer high-quality SC connectors that meet industry standards and provide reliable connectivity for your network needs.



SC Multi-mode Connector

SC PC Connector

SC APC Connector

KEY FEATURES

- Easy push-pull coupling mechanism for convenient insertion and consistent connection.
- Features zirconia ceramic ferrule with Ultra Physical Contact (UPC) finish for superior performance.
- Provides low insertion loss and back reflection for reliable signal transmission.
- Compliant with RoHS and REACH SvHC regulations for environmental safety.
- Available in standard colors and packaging for ease of use.

KEY APPLICATIONS

- Data centers, premise installations, and telecommunication networks
- Ethernet, Fiber Channel, ATM, LAN, MAN, and WAN networks.

Technical Specifications:

Mechanical Properties	Criteria	Effect
Mechanical endurance	500 matings	<0.2 dB change
Vibration	10-55Hz, 0.75 amplitude	<0.2 dB change
Drop	Drop height 1m, 5 drops	<0.2 dB change
Cable retention	Magnitude 90 N	<0.2 dB change
Cable torsion	1.5kg - 2.5kg for 2mm-3mm cable diameter	<0.2 dB change
Operating temperature	-25 to +70, 12 cycles	<0.2 dB change
Cold	-25 for 96 hrs	<0.2 dB change
Dry Heat	+70 for 96 hrs	<0.2 dB change

SC Connector PC And APC - Single-mode

Optical Performance	High Performance	Premium	Standard
Insertion loss (Typ)	0.10 dB	0.15 dB	0.25 dB
Insertion loss (97%)	0.20 dB	0.30 dB	0.40 dB
Ave/Master	0.08 dB	0.12 dB	0.18 dB
Ave/Random	0.08 dB	0.12 dB	0.18 dB
Return Loss	55/70 dB	55/65 dB	55/65 dB

SC Connector PC – Multi-mode

Optical Performance	Premium	Standard
Insertion loss (Typ)	0.15 dB	0.30 dB
Insertion loss (97%)	0.25 dB	0.40 dB
Ave/Master	0.08 dB	0.15 dB
Ave/Random	0.10 dB	0.20dB

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LC Connectors

Introducing the LC Connector from Savitri Telecom Services - the small form factor fibre optic connector that provides a cost-effective and space-saving solution for your connectivity needs. With its unique design, the LC connector reduces space on panels or outlets by an impressive 50%, making it ideal for a wide range of applications.

The LC connector simplifies movement, addition, and modification with its standard RJ-style telephone connector, which gives an audible click upon engaging. This feature ensures a secure and reliable connection, without the need for complex and costly tools.

Featuring a 1.25mm ferrule, which is half the diameter of the standard ferrule, the LC connector is suitable for a range of applications. It is available in single-mode for both PC and APC, and in multimode PC. The connectors come with standard boots suitable for 900um and 2mm cable diameters. The LC connector is available in simplex and duplex (with clips) options, making it a versatile solution for various configurations. Whether you need a single connector or multiple connectors for a complex network, the LC connector has got you covered. With its high-quality construction and reliable performance, the LC Connector from Savitri Telecom Services is the perfect choice for your fiber optic connectivity needs.



Technical Specifications:

Mechanical Properties	Criteria	Effect
Mechanical endurance	500 matings	<0.2 dB change
Vibration	10-55Hz, 0.75 amplitude	<0.2 dB change
Drop	Drop height 1m, 5 drops	<0.2 dB change
Cable retention	Magnitude 90 N	<0.2 dB change
Cable torsion	1.5kg -2.5kg for 2mm-3mm cable diameter	<0.2 dB change
Operating temperature	-25 to +70, 12 cycles	<0.2 dB change
Cold	-25 for 96 hrs	<0.2 dB change
Dry Heat	+70 for 96 hrs	<0.2 dB change

LC Connector PC And APC - Single-mode

Optical Performance	High Performance	Premium	Standard
Insertion loss (Typ)	0.10 dB	0.15 dB	0.25 dB
Insertion loss (97%)	0.20 dB	0.30 dB	0.40 dB
Ave/Master	0.08 dB	0.12 dB	0.18 dB
Ave/Random	0.08 dB	0.12 dB	0.18 dB
Return Loss	55/70 dB	55/65 dB	55/65 dB

KEY FEATURES

- **Compact Design:** The LC Connector's design is based on the RJ45 style interface, making it a compact and versatile option for a wide range of applications.
- **Low Insertion Loss and Back Reflection:** With low insertion loss and back reflection, the LC Connector provides a reliable and efficient connection.
- **Zirconia Ceramic Ferrule:** The LC Connector features a zirconia ceramic ferrule with a high-end PC finish, ensuring durability and superior performance.
- **Compliance:** The LC Connector is RoHS, REACH, and SvHC compliant, ensuring it meets the highest standards of safety and environmental regulations.
- **Standard Colors and Packaging:** The LC Connector is available in standard colors and packaging, making it easy to integrate into existing systems and workflows.

KEY APPLICATIONS

- The LC Connector from Savitri Telecom Service is a versatile option for a wide range of applications. Here are just a few of the key applications where the LC Connector excels:
- **Telecommunications Networks:** The LC Connector is a reliable option for use in telecommunications networks, providing a secure and efficient connection.
- **CATV, LAN, MAN, and WAN Applications:** With its low insertion loss and back reflection, the LC Connector is a great choice for use in CATV, LAN, MAN, and WAN applications.
- **Data Processing Networks:** The LC Connector's compact design and reliable performance make it a top choice for use in data processing networks.
- **Cable Television:** The LC Connector is a cost-effective option for use in cable television systems, providing a high-quality connection.
- **Fibre-to-the-Home:** With its compact size and reliable performance, the LC Connector is an excellent option for use in fibre-to-the-home applications.
- **Premises Distribution:** The LC Connector is a versatile choice for premises distribution, providing a reliable and efficient connection for a range of applications.

LC Connector PC – Multi-mode

Optical Performance	Premium	Standard
Insertion loss (Typ)	0.15 dB	0.30 dB
Insertion loss (97%)	0.25 dB	0.40 dB
Ave/Master	0.08 dB	0.15 dB
Ave/Random	0.10 dB	0.20 dB

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ST Connectors

Introducing the ST Connector from Savitri Telecom Services - a versatile and reliable option for your fiber optic connectivity needs. With its quick-release bayonet-style body and spring-loaded ferrule, the ST Connector provides a secure and efficient connection, making it a top choice for networking applications.

The ST Connector is suitable for a range of applications, thanks to its high-quality construction and performance. It is available in single-mode PC and multimode PC, providing flexibility for a wide range of connectivity needs.

Featuring standard boots suitable for 900µm, 2mm, and 3mm cable diameters, the ST Connector is a versatile option for a range of cable types. This makes it easy to integrate into existing systems and workflows, providing a hassle-free solution for your connectivity needs.

Whether you're setting up a new network or expanding an existing one, the ST Connector from Savitri Telecom Services is a reliable and efficient option. With its high-quality construction, quick-release bayonet-style body, and spring-loaded ferrule, the ST Connector provides a secure and efficient connection that will keep your network running smoothly.



ST Multi-mode Connectors ST APC Connectors ST PC Connectors

Technical Specifications:

Mechanical Properties	Criteria	Effect
Mechanical endurance	500 matings	<0.2 dB change
Vibration	10-55Hz, 0.75 amplitude	<0.2 dB change
Drop	Drop height 1m, 5 drops	<0.2 dB change
Cable retention	Magnitude 90 N	<0.2 dB change
Cable torsion	1.5kg -2.5kg for 2mm-3mm cable diameter	<0.2 dB change
Operating temperature	-25 to +70, 12 cycles	<0.2 dB change
Cold	-25 for 96 hrs	<0.2 dB change
Dry Heat	+70 for 96 hrs	<0.2 dB change

ST Connector PC And APC - Single-mode

Optical Performance	High Performance	Premium	Standard
Insertion loss (Typ)	0.10 dB	0.15 dB	0.25 dB
Insertion loss (97%)	0.20 dB	0.30 dB	0.40 dB
Ave/Master	0.08 dB	0.12 dB	0.18 dB
Ave/Random	0.08 dB	0.12 dB	0.18 dB
Return Loss	55/70 dB	55/65 dB	55/65 dB

ST Connector PC – Multi-mode

Optical Performance	Premium	Standard
Insertion loss (Typ)	0.15 dB	0.30 dB
Insertion loss (97%)	0.25 dB	0.40 dB
Ave/Master	0.08 dB	0.15 dB
Ave/Random	0.10 dB	0.20 dB

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KEY FEATURES

- **Low insertion loss and back reflection:** The ST Connector features low insertion loss and back reflection, ensuring reliable and efficient connectivity.
- **Bayonet shaped housing for easy termination:** The ST Connector has a bayonet-shaped housing that makes it easy to terminate, saving time and effort during installation.
- **Nickel-plated brass body:** The ST Connector has a nickel-plated brass body, which provides durability and resistance to corrosion.
- **Zirconia ceramic ferrule with high-end PC finish:** The ST Connector features a zirconia ceramic ferrule with a high-end PC finish, ensuring reliable and efficient performance.
- **RoHS, REACH, and SvHC compliant:** The ST Connector is compliant with RoHS, REACH, and SvHC regulations, ensuring it meets the highest standards of safety and environmental regulations.

KEY APPLICATIONS

- **Reliable and efficient connectivity:** With its low insertion loss and back reflection, the ST Connector provides a secure and efficient connection.
- **Easy to terminate:** The bayonet-shaped housing of the ST Connector makes it easy to terminate, saving time and effort during installation.
- **Durable and corrosion-resistant:** The nickel-plated brass body of the ST Connector provides durability and resistance to corrosion, ensuring long-lasting performance.
- **High-quality construction:** The ST Connector features a zirconia ceramic ferrule with a high-end PC finish, ensuring reliable and efficient performance.
- **Compliant with safety and environmental regulations:** The ST Connector is compliant with RoHS, REACH, and SvHC regulations, ensuring it meets the highest standards of safety and environmental regulations.

FC Connectors

The FC Connector from Savitri Telecom Services is a reliable and efficient option for fiber optic connectivity.



KEY APPLICATIONS

Local area networks: The FC Connector is commonly used in local area networks, providing reliable and efficient connectivity for a range of devices and applications.

Data processing networks: With its low insertion loss and back reflection, the FC Connector is ideal for use in data processing networks, ensuring reliable and efficient connectivity for critical data transmission.

Distribution application: The FC Connector is a popular choice for distribution applications, such as connecting fibre optic cables to patch panels or outlets.

Premises distribution: The FC Connector is suitable for use in premises distribution, providing a reliable and efficient connection between devices and equipment.

Test and laboratory equipment: The FC Connector is also commonly used in test and laboratory equipment, providing a secure and efficient connection for critical data transmission and analysis.

Technical Specifications:

Mechanical Properties	Criteria	Effect
Mechanical endurance	500 matings	<0.2 dB change
Vibration	10-55Hz, 0.75 amplitude	<0.2 dB change
Drop	Drop height 1m, 5 drops	<0.2 dB change
Cable retention	Magnitude 90 N	<0.2 dB change
Cable torsion	1.5kg -2.5kg for 2mm-3mm cable diameter	<0.2 dB change
Operating temperature	-25 to +70, 12 cycles	<0.2 dB change
Cold	-25 for 96 hrs	<0.2 dB change
Dry Heat	+70 for 96 hrs	<0.2 dB change

FC Connector PC And APC - Single-mode

Optical Performance	High Performance	Premium	Standard
Insertion loss (Typ)	0.10 dB	0.15 dB	0.25 dB
Insertion loss (97%)	0.20 dB	0.30 dB	0.40 dB
Ave/Master	0.08 dB	0.12 dB	0.18 dB
Ave/Random	0.08 dB	0.12 dB	0.18 dB
Return Loss	55/70 dB	55/65 dB	55/65 dB

FC Connector PC – Multi-mode

Optical Performance	Premium	Standard
Insertion loss (Typ)	0.15 dB	0.30 dB
Insertion loss (97%)	0.25 dB	0.40 dB
Ave/Master	0.08 dB	0.15 dB
Ave/Random	0.10 dB	0.20 dB

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KEY FEATURES

- **2.5 mm ferrule:** The FC Connector features a 2.5 mm ferrule, providing a precise and reliable connection for critical data transmission.
- **Threaded coupling nut:** The FC Connector has a threaded coupling nut, which provides a secure connection in high vibration environments and in lab testing for consistent results.
- **Available in singlemode and multimode:** The FC Connector is available in single mode for both PC and APC, and multimode PC, making it suitable for a range of applications.
- **Standard Savitri boots:** The FC Connector comes with standard Savitri boots suitable for 900µm, 2mm and 3mm cable diameters, providing flexibility and convenience during installation.
- **Standard colors:** The FC Connector is available in standard colors like blue, green and black, making it easy to integrate into existing network environments.

KEY BENEFITS

- **Reliable and precise connection:** With its 2.5 mm ferrule, the FC Connector provides a reliable and precise connection for critical data transmission.
- **Secure connection:** The threaded coupling nut of the FC Connector ensures a secure connection in high vibration environments and in lab testing for consistent results.
- **Versatile compatibility:** The FC Connector is available in single mode and multimode, making it suitable for a range of applications.
- **Flexible installation:** The FC Connector comes with standard Savitri boots suitable for 900µm, 2mm and 3mm cable diameters, providing flexibility and convenience during installation.
- **Easy integration:** The FC Connector is available in standard colors like blue, green and black making it easy to integrate into existing network environments.

E2000 Connector

The E-2000 fiber optic connector family from Savitri Telecom Services is designed to cover the most common applications in the field.

The E-2000 connectors come with a range of advanced features to ensure safe and reliable connections. The connectors are designed with color-coding and mechanical keying to ensure correct matings. They feature a spring-loaded protective cap for high power applications, providing increased safety protection. The specially designed body of the connectors prevents endface damage during mating, while the modular designed mating adapters come with metal protective shutters for high power applications.



The E-2000 fiber optic connector family is available as a standard terminated connector, connector set, and various types of fibers, including single-mode, multimode OM1, OM2, OM3, OM4, PM fibers, small core fibers of 62.5µm, and large core fibers greater than 62.5µm. This provides users with the flexibility to choose the most suitable configuration for their specific applications, ensuring optimal performance and reliability.

KEY FEATURES

- Color-coding and mechanical keying ensure correct matings, reducing the risk of errors and downtime.
- Spring-loaded protective cap provides increased safety protection for high power applications.
- Specially designed body prevents end face damage during mating, increasing the durability and longevity of the connector.
- Modular designed mating adapters with metal protective shutters protect against dust and debris for high power applications.
- EtO sterilizable components with optional O-ring seals IP65-rated for safety, reliability, and quality in biomedical markets and special environmental conditions.
- E-2000 Simplex with non-magnetic components available for applications that require non-magnetic properties.
- Assemblies available with different plastic and metal flexible jacketing options, providing versatility for various installation requirements.
- Diamond composite ferrule (zirconia ceramic sleeve and titanium insert) allows plastic deformation for Active Core Alignment (A.C.A), achieving a unique 0.1 dB insertion loss and sizes from 80µm to 800µm. Superior Ultra polishing, custom ferrules for multi-fiber technology, and ultra-low ferrule O.D. tolerances enhance the performance and reliability of the connector.

Technical Specifications:

	Multi mode 0° PC	Multi mode 8° APC	Single mode 0° PC	Single mode 8° APC	Single mode 8° 0.1dB	Units
Insertion Loss (IL)	Typ. 0.15 max 0.3	Typ. 0.15 max 0.4	Typ. 0.15 max 0.3	Typ. 0.15 max 0.3	Max 0.1	dB
Return Loss (RL)	Min 40	Min 60	Min 50	Min 70	Min 85*	dB
Repeatability of IL	Max ±0.1				–	dB
Service a life	1000 mate/demate cycles					–
Storage Temperature	-40°C/+90°C**					°C

* Measured with high precision reflectometer.

** May be further limited by cable specifications.

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