

Article Overview

No, an FC connector is a fiber optic connector, not a coaxial cable connector.

FC Connector Overview

The FC connector (Ferrule Connector or Fiber Channel) is specifically designed for fiber optic cables, not coaxial cables. It features a threaded screw-on design that ensures a secure connection, particularly in high-vibration environments. FC connectors are commonly used with single-mode optical fiber and polarization-maintaining fiber, and they are applied in datacom, telecommunications, measurement equipment, and single-mode lasers. The connector uses a 2.5 mm ferrule made of zirconia ceramic or stainless steel, with a polished tip to minimize signal loss and back-reflection .

Coaxial Cable Connectors

In contrast, coaxial cable connectors are designed to terminate coaxial cables, which carry high-frequency electrical signals. Common types include F-type, BNC, SMA, N-type, and 7/16 DIN connectors. These connectors maintain the coaxial cable's shielding and impedance, ensuring reliable transmission of RF signals for applications like television, satellite, internet, and wireless communications .

Key Differences

Feature	FC Connector	Coaxial Connector	Cable type	Fiber optic	Coaxial (copper)	Signal type	Light
(optical)	Electrical (RF)	Coupling	Threaded screw-on	Threaded, bayonet, or push-on depending on type	Applications	Telecom, datacom, lasers	TV, satellite, internet, RF systems
ferrule	Metal body with dielectric insulation				Material	Ceramic or stainless steel	

Conclusion

FC connectors are not used with coaxial cables; they are part of the fiber optic connector family. If you are working with coaxial cables, you would use connectors like F-type, BNC, or SMA, whereas FC connectors are exclusively for fiber optic systems .

These connectors are completely reusable. We also provide these F-type coax connectors as a part of the Universal Compression

About this item Seamless Extension & Conversion: This coaxial cable extender extends RG6/satellite cables and converts male to

Coaxial cable FC connector

Widely used in TV applications and cable modems, F connectors bring reliable signal

Learn the differences between ST, SC, FC, and LC fiber connectors. Explore connector

Discover reliable coax connectors with nickel-plated and gold-plated finishes. Compatible with RG6, RG59, and more for secure

The FC Connector offers a durable, threaded design for secure fiber optic connections. It is

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COAX Cable Group FC Click on Cable Type to view suitable connectors

What Are RF Coaxial Connectors? An RF coaxial connector is a type of electrical connector designed to

Among these components, fiber connector types are essential to network performance,

Everything You Need to Know About Coaxial Connectors Explore the different types of coaxial connectors, including

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