

FC circular interface



Article Overview

The FC circular interface is a threaded fiber optic connector designed for secure, low-loss connections in high-vibration environments.

Overview

The FC (Ferrule Connector or Fiber Channel) connector is a fiber optic interface featuring a circular, threaded coupling mechanism that ensures stable and vibration-resistant connections. Originally developed by NTT in the late 1970s as the "Field-Assembly Connector," it was the first connector to use a ceramic ferrule, typically 2.5 mm in diameter, to hold the fiber end securely. The ferrule is polished to a physical contact (PC) or ultra-polished (UPC/APC) finish, allowing the fiber cores to touch directly, minimizing insertion loss and back-reflection.

Design Features

- **Threaded Coupling:** The circular screw design prevents accidental disconnection and provides high mechanical stability, making it ideal for single-mode fibers and high-vibration applications.
- **Ferrule Material:** Zirconia ceramic or stainless steel ferrules ensure precise alignment and durability.
- **Active Core Alignment (ACA):** Some modern FC connectors, like those from DIAMOND SA, use ACA technology to reduce core eccentricity and optimize optical performance.
- **Tuning Capability:** Certain FC connectors allow rotation of the ferrule to fine-tune insertion loss, enhancing signal quality

Article Content

Fibre Channel Overview

FC-4, the highest level in the FC structure defines the application interfaces that can execute over Fibre Channel. It specifies the

Macro FCCircularText

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FC Connectors

FC Connectors, also known as Ferrule Core, "Fiber Channel" or "Ferrule Connector" or "Frank Charlie" Connectors at assembly

Fibre Channel Physical Layer Tutorial

FC-P1-2 specifies both Electrical and Optical interfaces for Fibre Channel. This document focuses on the Electrical Physical Layer up

Fibre Channel Interfaces

The committee charged with developing Fibre Channel technology was established within the American National Standards Institute

Fragment crystallizable region

The fragment crystallizable region (Fc region) is the tail region of an antibody that interacts with cell surface

Fibre Channel Hard Drive Interface

Fibre Channel Interface Fibre channel is a type of SCSI hard drive technology used in high-end systems with multiple hard drives

4.3 Overview of Fibre Channel (FC) SAN Protocol

The FC architecture represents true channel and network integration and captures some of the benefits of both

Microsoft PowerPoint

FC-P1-4 (Fibre Channel Physical Interfaces) Project name and scope modified Define serial optical and electrical variants for

FC connector

The FC connector is a fiber-optic connector with a threaded body, which was designed for use in high

Fibre Channel

FC-0 – physical layer, defined by Fibre Channel Physical Interfaces standard, includes cabling, connectors etc.; Fibre Channel

Fibre Channel Interoperability

FC is primarily used in storage area networks (SANs) because it provides reliable, lossless, in-order frame transport

Optical fiber connector

Optical fiber connectors are used to join optical fibers where a connect/disconnect capability is required.

ISO/IEC 14165-147:2021 | IEC

Information technology – Fibre channel - Part 147: Physical interfaces - 7 (FC-PI-7)
This standard describes the

Understanding Interfaces on an FCoE-FC Gateway

When a switch functions as an FCoE-FC gateway to connect FCoE devices on an Ethernet network to a Fibre

Fibre Channel

Fibre Channel was designed as a serial interface to overcome limitations of the SCSI and HIPPI physical

Understanding Fibre Channel | Junos OS | Juniper Networks

Fibre Channel (FC) is a serial I/O interconnect network technology capable of supporting multiple protocols. It is used primarily for

What is Fibre Channel? History, layers, components and design

Fibre Channel history and standards The Fibre Channel Physical and Signaling Interface (FC-PH) standard was

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Fiber Connector Types: A Complete Guide (2024)

FC Connector FC stands for “ferrule connector”. It is the first fiber optic connector to use a ceramic ferrule. However,

Storage Networking 101: Understanding Fibre Channel

They are: FC-0: The interface to the physical media; cables, etc FC-1: Transmission protocol or data-link layer, encodes and

FC Connectors

Its name "FC" stands for "Ferrule Connector", where "Ferrule" refers to the ceramic or metal sleeve inside

ANSI/INCITS 543

Information Technology – Fibre Channel – Physical Interface-7 (FC-PI-7) This standard describes the physical

FC Series

The RADIALL FC connector has something more than the competitors: it can be tuned to 1 of 6 positions to optimise the insertion

ISO/IEC 14165-147:2021

Abstract This standard describes the physical interface portions of high performance optical link variants that support the higher level

Detailed Explanation of FC, ST, SC, and LC Fiber-Optic Interfaces

After insertion, it can be fixed by the bayonet after rotating half a circle. This type of connector is easy and quick to

FC Series

Radiall's FC connector offers a high precision of positioning which maintains very high optical performances.

Overview of Fibre Channel | Junos OS | Juniper Networks

Monitoring Fibre Channel Interface Load Balancing Troubleshooting Dropped FIP Traffic Understanding Fibre Channel Virtual Links

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