

Fiber optic attenuator connector models and specifications



Summary of Content

Fiber optic attenuators are available in fixed and variable types, supporting multiple connector models such as FC, SC, LC, ST, and APC variants, with attenuation ranges from 0 to 60 dB depending on the application.

Types of Fiber Optic Attenuators

Fixed Attenuators: Provide a constant, predetermined level of signal reduction. They are commonly used in single-mode (9/125 μm) and multimode (50/125 μm , 62.5/125 μm) fibers. Fixed attenuators are available in single-mode, dual-window, and multimode configurations and typically cover attenuation values from 0 to 60 dB .

Variable Attenuators: Allow adjustable signal reduction, often using an air gap or mechanical mechanism to regulate attenuation. These are useful for testing, calibration, or dynamic optical network adjustments .

Connector Models

Fiber optic attenuators are designed to match standard connector types for compatibility with optical systems:

- FC / FC/PC / FC/APC: Common in single-mode systems; APC variants reduce back reflections. Thorlabs kits include FC/PC and FC/APC connectors with 2.0–2.2 mm key dimensions .
- SC / SC/APC: Widely used in telecom and data networks; APC versions improve return loss.
- LC / LC/APC: Compact connectors for high-density applications.

Article Content

Fixed Attenuators | OEM Optical Communication Solutions | Corning

Fixed Attenuators Attenuators control the optical power in a fiber. They are often combined with an active system component to

Fixed Fiber Optic Attenuators, Single Mode

Thorlabs' Fiber Optic Attenuator and Terminator Kits each contain six fixed attenuators, five terminators, and a selection of dust caps.

The Ultimate Guide to Fiber Optic Attenuators

Fiber Optic Attenuators, also known as optical attenuators, are passive devices integral to

Optical Fiber Attenuators

Sinocomms' optical fiber attenuators offer multiple options including SC, LC, ST, FC, and MU connector

Fiber Optic Attenuators

We also can custom build in-line attenuators where the attenuator is incorporated within a fiber optic patch cable, built to your

Attenuators | Fibertronics, Inc.

Fibertronics, Inc. provides an extensive selection of fiber optic attenuators tailored to meet diverse needs. These attenuators are

Fiber Optic Attenuators

We stock attenuators for the following fiber optic connector types: ST, SC, SC/APC, FC, FC/APC, LC,

A Complete Guide to Fiber Optical Attenuators: Specifications, Types ...

Types of Fiber Optical Attenuators A fiber optical attenuator is a critical component in fiber optic communication systems designed to

Exploring Optical Attenuator Types and Applications: A

optical attenuators are indispensable components in fiber optic communication systems,

The Ultimate Guide to Fiber Optic Attenuators

Fiber optic attenuators play a crucial role in managing and controlling the power levels of optical signals in fiber optic

Choosing the Right Fiber Optic Attenuator

Helpful buying guide for fiber optic attenuators. Compare fixed and variable options, understand key parameters to

Fixed Fiber Optic Attenuators, Single Mode

Thorlabs' Single Mode Fixed Fiber Optic Attenuators allow one to attenuate an optical signal easily by plugging an FC/PC- or

LC/APC Fixed Optical Attenuator

Introduction: An optical attenuator is a passive device, used to reduce the power of an optical signal. Our LC/APC single mode

Fiber-Optic Products and Applications Data Sheet

The fiber-optic attenuator kit (SEL part number 91560) adds a spacer on the transmit side of the ST connectors. This pushes the fiber

Flange/Adapter Type LC Fiber Optic Attenuator

Flange/Adapter Type LC Fiber Optic Attenuator Flange Type Fixed Attenuator is also called adapter type attenuator, the shape is

SC Attenuators

VOA Or Fixed 1~60dB SC Attenuators are designed for SC (Subscriber Connector) connectors, these attenuators feature a push-pull

Fiber-optic Attenuators – fixed or variable attenuation,

Fiber-optic attenuators adjust optical signal power levels, for example in fiber-optic links. The degree of

Fibre Attenuators | Optical Attenuators | 4Cabling

Discover 4Cabling's full range of Fibre Optic Attenuators, Optical Attenuators in SC and LC Connectors as well as Singlemode

Fiber Optic Attenuators | Optoelectronics | DigiKey

Fiber optic attenuators are devices used to reduce or monitor the power level of a fiber optic signal. Basic types of fixed attenuation

Fiber Optic Attenuators — Fixed & Variable | TTI Fiber

Our fixed attenuators are available in plug-style (inline, male-to-female) and bulkhead formats covering LC, SC, FC, ST, and MU

Fixed Fiber Optic Attenuator and Terminator Kits

Thorlabs' Fiber Optic Attenuator and Terminator Kits each contain six fixed attenuators, five terminators,

Fiber Attenuators

Product PortfolioAMS Technologies carries a broad range of fiber attenuators that provide fixed or variable attenuation of optical

LC Attenuators

VOA Or Fixed 1-60dB LC Attenuators are essential devices in fiber optic networks, designed to precisely control optical signal

Fiber Optic Attenuators Information

Fiber optic attenuators are devices that reduce signal power in fiber optic links by inducing a fixed or

Fiber Optic Attenuator, Fixed Fiber Optic Attenuator

Fiber Optic Attenuator is used in fiber optic communications. Sinooptic offers FC, SC, ST, and LC Multimode Fixed Fiber Optic

Fiber Optic Attenuators (Fixed & Variable, FC/SC/LC)—Low-loss ...

Available in fixed (FC, SC, LC housing) and variable (stepwise or continuously adjustable) formats, they offer accurate, low-loss

Contact Us

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