



A Furukawa Company

Fiber Optic Attenuators - Build-On Series

Taking Full Advantage of the Entire Fiber Spectrum from 1280 to 1625 nm



LC Build-On Attenuator



SC Build-On Attenuator

Applications:

- Metropolitan and regional networks
- Long haul networks
- All applications currently supported by conventional single-mode optical fiber
- MultiService network protocols
- DWDM networks

Features

- Provides low optical back reflection used in digital and analog systems
- Meets high density requirements using OFS LC-style small form connector
- Compatible with current conventional single-mode fiber (SMF)

Benefits

- Excellent optical performance
- Low reflection to meet stringent system requirements
- Backward compatible with existing transmission equipment
- Operates in the broad range of communication wavelengths from 1280 nm to 1620 nm inclusive of the 1400 nm band
- Designed to provide flat spectral attenuation required to function in all the wavelengths
- Meets high density requirements for cost and space savings
- Design flexibility with various connector style choices and attenuation levels

Product Description

Attenuators are key in controlling the power level of an optical path in fiber optic telecommunication systems. OFS' SC and LC Build-on Fiber Optic Attenuators are used to reduce excess optical power from the transmitter that can result in over-saturation of the receiver. These attenuators can be placed either on the LGX[®] shelf or directly on the active equipment, depending on the customer's preference and the design of the equipment. Build-on attenuators, available in SC and LC styles, are a combination of a connector on one end, and an adapter on the other. This flexibility allows the attenuator to be plugged into a standard SC or LC adapter. The assembly contains a ferrule that is available in standard polish connectors (PC).

OFS' SC and LC fiber optic attenuators meet stringent system requirements and are backward compatible with existing transmission equipment.

These LC and SC fiber optic build-on attenuators are designed to provide flat spectral loss across the full spectrum. This allows the attenuators to be used in the O Band (1310 nm window), C&L Bands (1530 – 1625 nm window), and the E Band (1400 nm window). The following sub-components are part of our build-on fiber optic attenuator offer:

- LC & PC Attenuators
- SC & PC Attenuators



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Ordering Information

Standard LC Build-On Attenuators

Comcode	Product Code	Product Description (attenuation)
LC Build-On Attenuator (5.0)	ABLCS-5.0	108 279 381
LC Build-On Attenuator (10.0)	ABLCS-10.0	108 279 431
LC Build-On Attenuator (15.0)	ABLCS-15.0	108 279 480
LC Build-On Attenuator (20.0)	ABLCS-20.0	108 279 530

Standard SC Build-On Attenuators

SC Build-On Attenuator (5.0)	ABSCS-5.0	108 617 549
SC Build-On Attenuator (10.0)	ABSCS-10.0	108 617 556
SC Build-On Attenuator (15.0)	ABSCS-15.0	108 618 554
SC Build-On Attenuator (20.0)	ABSCS-20.0	108 618 562

LC*/SC PC Attenuator Specifications

Tolerance: 0 - 10 dB	± 0.25 dB
11 - 20 dB	± 0.50 dB
25 dB	± 2.0 dB

Return Loss	> 50 dB
Wavelength Region	1280 nm to 1625 nm
Side Load*	0.55 lb. (0.25 kg)
Stability Test* at 90 °F (32 °C)	0.5 lb. (0.23 kg)
Temperature	-40 °F to 167 °F (-40 °C to +75 °C)
Maximum Power	30 dBm
Endface Angle	N/A

* Small form factor connectors (LC) are subject to 2/3 of Telcordia requirements for side loads.

For additional information please contact your sales representative. You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



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