

# LEAD Fiber Optics PRODUCT CATALOGUE

## FIBER OPTIC ATTENUATOR Fixed in-line type

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## Fixed in-line type Attenuator



Fixed in line optical attenuator is used in optical systems where the optical power from a source is too high for the test equipment in use. It introduces an in-line fixed loss that will reduce the source power to an acceptable detection level. The attenuation level should be stable with temperature and wavelength for a stable reliable system.

LFO provides a wide range of singlemode and multimode Fixed in-line optical Attenuators. They are used directly on the fiber optic connectors and provide a fixed level of optical attenuation. Single mode fiber based Fixed in-line attenuators with single window (1310nm or 1550nm) or dual window (1310nm&1550nm). Multimode fiber based Fixed in-line attenuators with single window (850nm or 1310nm). FC and SC fiber connector types with PC or APC polish are available, as well as ST and LC types of attenuators.

### ***LFO Fixed in-line Attenuator Series***



#### ***Fixed in-line Fiber Optic Attenuator***

The Fixed in-line fiber optic attenuators are a compact passive fiber optical component that provides accurate attenuation. They are based on Fused Biconical Taper (FBT) technology. Our Fixed in-line attenuators series come with your choice of different connector terminations, including FC, SC, ST, or other type of connectors specified. With the patented mode filter design, they can enhance mode stability dramatically and be readily panel mounted without any dummy fiber.

## Fixed in-line type Attenuator

### Features

- Optical performance 100% factory tested
- Environmentally stable
- Easy installation
- Readily panel mountable
- Compact packaging

### Applications

- Telecommunication networks
- LAN
- CATV
- Fiber Optics Sensors
- Fiber To The Home
- Multi-channel Subscriber Loop
- Optical transmission system



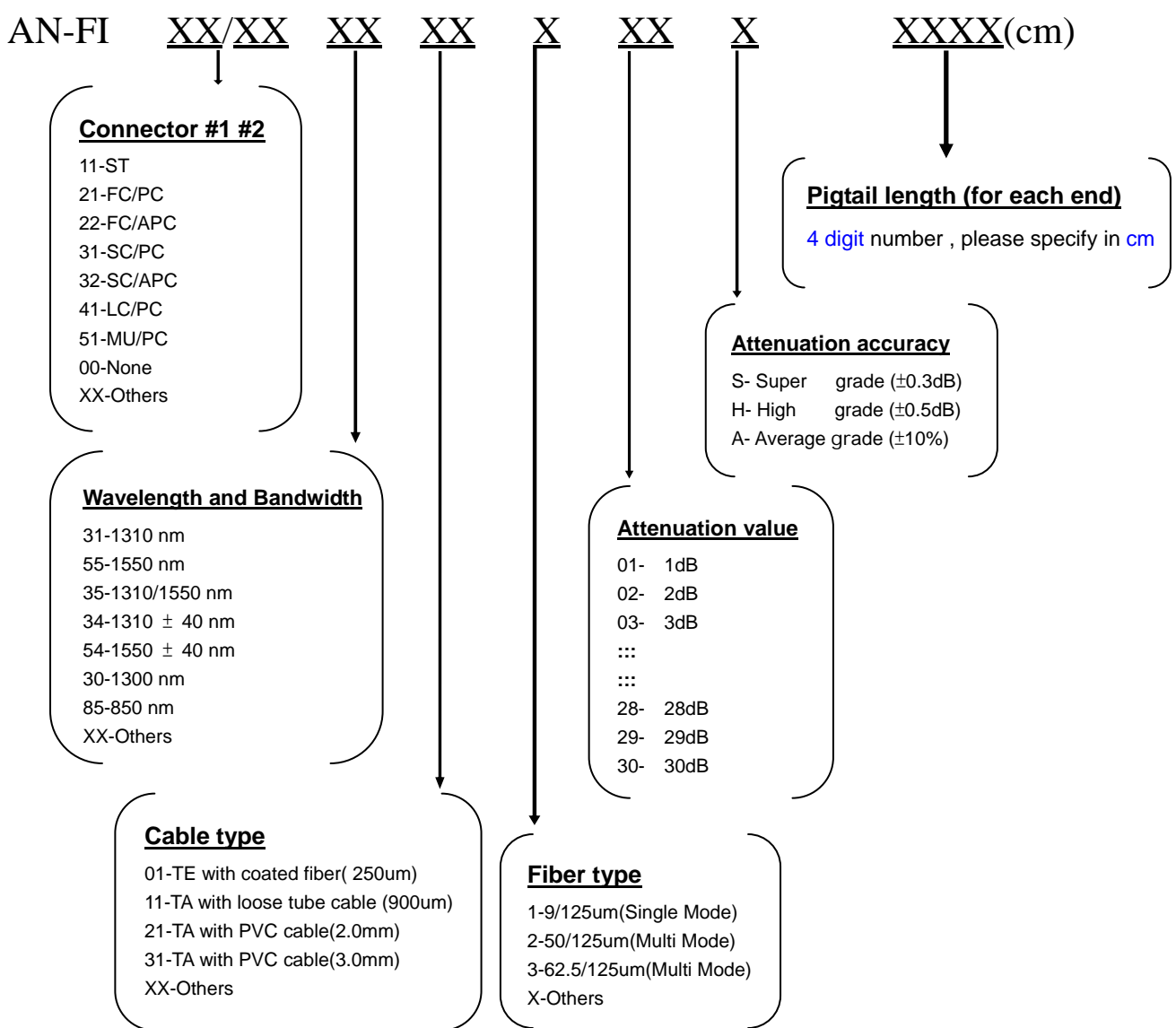
## Specifications <Single Mode>

ITEM	Standard	Wideband	Dual Window
Operation Wavelength, nm	1310nm or 1550nm	1310nm or 1550nm	1310nm and 1550nm
Bandwidth, nm	± 10	± 40	± 40
Attenuator Range, dB	1~30		
Attenuation Accuracy, dB	± 0.3 (for 1~10dB);	±0.5(for 11~20dB);	± 10%(for 21~25dB)
Back Reflection, dB	≤-50		
Operation Temperature, °C	-40°C~85°C		
Storage temperature, °C	-55°C~85°C		
Connector Type	ST,FC,FC/APC,SC,SC/APC,LC,MU		

## Specifications <Multi-Mode>

ITEM	Standard
Operation Wavelength, nm	850nm or 1310nm
Bandwidth, nm	± 10
Attenuator Range, dB	1~30
Attenuation Accuracy, dB	± 0.5 (for 1~5dB); ± 10%(for 6~20dB)
Operation Temperature, °C	-40°C~85°C
Storage temperature, °C	-55°C~85°C
Connector Type	ST,FC,SC,LC

**Fixed in-line type Attenuator Ordering information**



**DYSFO**

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