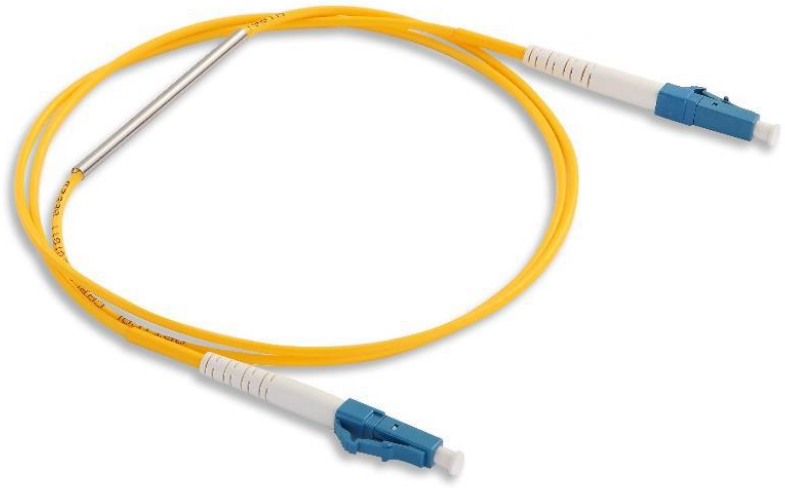
Fixed In-line Cable Attenuator



Introduction

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

T&S provides a wide range of singlemode and multimode fixed in-line cable 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 (1550nm) or dual window (1310nm & 1550nm). Multimode fiber based fixed in-line attenuators with single window (850nm).

Features

- High precision connector
- UPC APC end face polish
- LC, MU, SC, FC, ST, all single fiber connector
- Precise attenuation value
- High precision with 1dB increment
- Customized length available
- 100% factory terminated and tested
- ROHS Compliant

Standard Compliance

- TIA/EIA 604 Series
- TIA/EIA 568.3-D

- IEC 61754 Series
- IEC 61753-1
- GR 326-Core
- GR 910-Core

General Specification

Construction	Description
Fiber Count	Simplex or Duplex
Fiber Mode	Single mode: G.652/G.657 Multimode: OM1 OM2 OM3 OM4
Fiber Brand	SMF-28® Ultra optical fiber Corning ClearCurve® multimode fiber
Cable Jacket Material	Low Smoke Zero Halogen (LSZH) PVC
Cable Jacket Ratings	Riser (OFNR) Plenum (OFNP)
Cable Jacket Color	G.652/G.657: Yellow OM1/OM2:Orange OM3: Aqua OM4: Aqua/Magenta or Customized
Cable Dia.（mm）	Ø 0.9; Ø 2.0; Ø 3.0
Encapsulate Type	Steel Tube or customized
Connector type	FC/ SC/ LC /MU/ ST/ MTRJ /SMA etc
Endface polish	PC/ UPC /APC (unavailable for ST)
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C

Technical Specification

Spec. Item		Unit		
Model		-	SM	MM
Operating Wavelength		nm	1310 & 1550	850 (LED or VCSEL)
Attenuation Value		dB	1-25	1-25
Attenuation Accuracy	1 ~ 5	dB	± 0.5	± 0.5
	6 ~ 19	dB	± 10%	± 10%
	20 ~ 25	dB	± 2.0	± 2.0
Return Loss		dB	⩾50 (UPC); ⩾60 (APC)	-

Note:
[1] Attenuation values above include no connector loss.
[2] Attenuation test per IEC 61300-3-4 Insertion Method C

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