



ATN-FBS

Attenuation Optical Fiber

Coractive's attenuation optical fiber (ATN) products have been specifically designed to provide flat attenuation over the widest wavelength range possible. Wideband uniform attenuation ensures full compatibility with current and future DWDM, CATV and other telecom systems. The ATN-FBS has a wide attenuation range (<0.4 dB/cm), perfect for manufacturing attenuators used in undersea telecom applications.

Features & Benefits

- Industry-standard fiber geometry – provides **high-precision core alignment** for more efficient fiber coupling
- Precise cladding diameter control – **perfect ferrule fit** reducing manufacturing costs & increasing production yield
- Tight attenuation tolerance – enables compatibility with DWDM network applications
- Guaranteed attenuation in 1310 nm and 1550 nm wavelength ranges
- Exceptional **batch-to-batch uniformity** – ensures a consistent and high-quality attenuator
- Wide attenuation range: from 0.005 to 0.4 dB/cm

Applications

- Attenuators for undersea applications
- Telecom (DWDM, CATV)

Specifications

Optical

Core Numerical Aperture – Nominal (%)	0.14 ± 0.02
Attenuation Range* (dB/cm)	0.005 - 0.4
Attenuation Wavelength Range @ 1310 nm	1295 - 1325
Attenuation Wavelength Range @ 1550 nm	1535 - 1565
Attenuation Tolerance – Nominal (%)	7.5

Geometrical & Mechanical

Core Diameter (µm)	7 ± 1
Cladding Diameter (µm)	125 ± 0.5
Core/Cladding Concentricity Error (µm)	< 0.8
Coating Diameter (µm)	245 ± 10
Proof Test (kpsi)	≥ 100

Environmental

Operating Humidity (%)	5 - 85
Operating Temperature (C°)	0 - 70
Storage Humidity (%)	5 - 85
Storage Temperature (C°)	-40 - 85