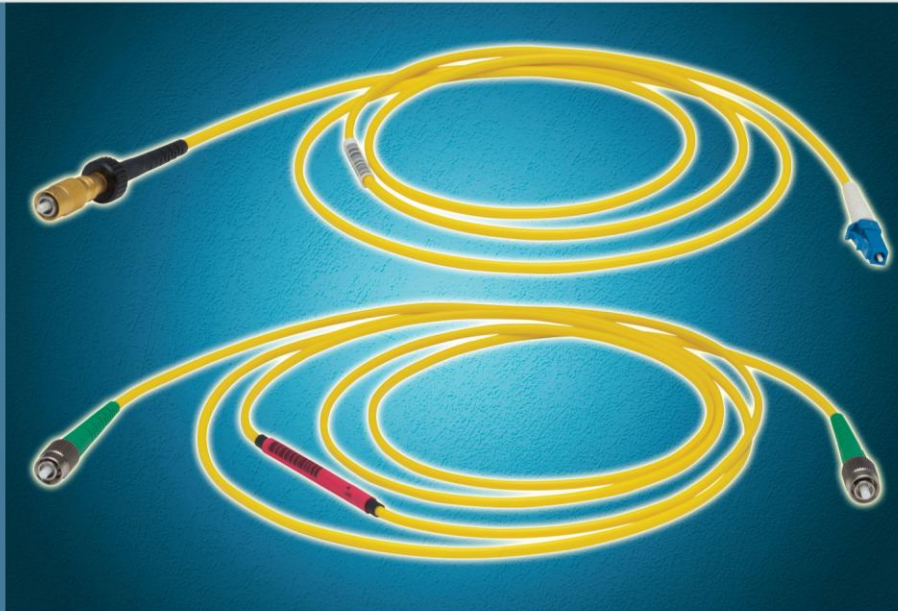


FIBER OPTIC ATTENUATORS



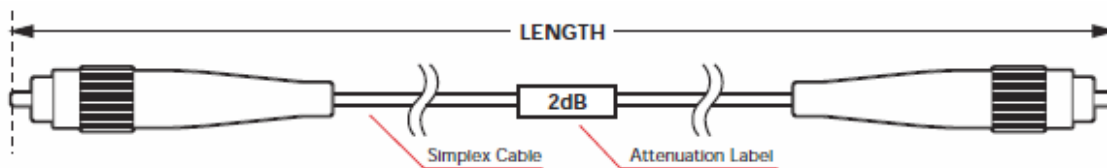
EigenLight offers exceptional quality and reliability in its line of **in-line fiber optic attenuators**. These custom assemblies are Telcordia qualified and built for the most demanding OEM, production or lab applications.

FEATURES

- 100% Interferometric Testing on Connectors
- 100% Insertion Loss Testing
- Connector End-Face Geometry to IEC Specifications or Better
- UPC Polish Standard
- Bar Coded Serialization and Documentation (Premium and Master Grade)

FIXED IN-LINE ATTENUATORS (F)

Fixed in-line attenuators can be installed in place of conventional fiber optic patch cords to provide a constant level of attenuation with >55 dB return loss. Available in singlemode fiber only. When ordering specify length as shown below.



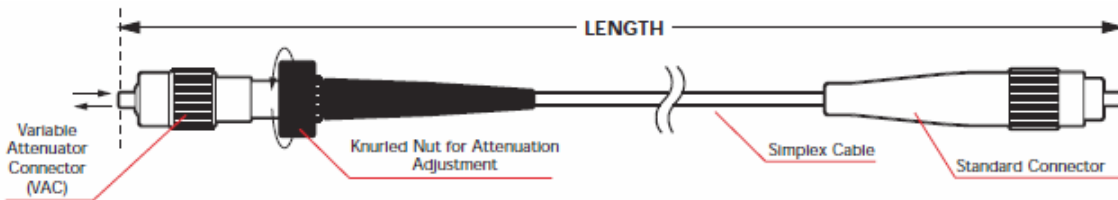
SPECIFICATIONS

Available Attenuation	1.0 to 20 dB	Minimum Length	1 meter
Attenuation Tolerance ¹	±0.5 dB	Wavelength Range	1300 - 1620 nm
Return Loss ¹	>55 dB	Temperature Range	-20° C to +80° C
Maximum Input Optical Power	+23 dBm		

FIBER OPTIC ATTENUATORS

VARIABLE ATTENUATOR PATCHCORDS (V)

Variable attenuator patch cords provide a compact and simple means for manually adjusting optical signals in fiber optic systems and test sets. When mated to a standard connector, the variable attenuator connector causes the optical signal to become attenuated by creating a variable air-gap between the connector ferrules. Attenuation is adjusted by means of a self-locking screw mechanism. Available in both single mode and multimode fiber.

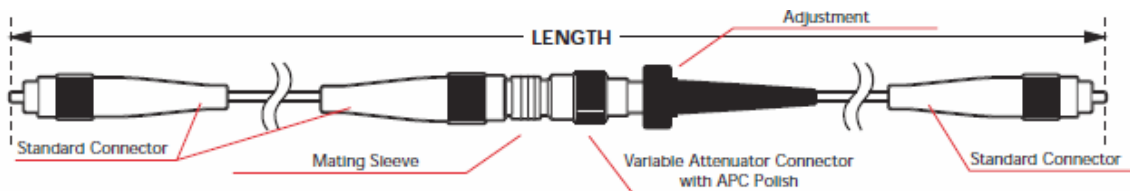


SPECIFICATIONS

Range of Attenuation	APC VAC, Singlemode	0.5 to 35 dB	Resolution	0.1 dB
	PC VAC, Singlemode	0.5 to 28 dB	Maximum Input Optical Power	+20 dBm
	Multimode	0.5 to 20 dB	Wavelength Range (Singlemode)	1300 - 1620 nm
Return Loss	APC VAC, Singlemode	>50 dB	Wavelength Range (Multimode)	800 - 1580 nm
	PC VAC, Singlemode	14 dB	Temperature Range	0° C to +40° C
	Multimode	14 dB		

VARIABLE IN-LINE ATTENUATOR (I)

Similar to the variable attenuator patch cord except that a standard fiber optic patch cord is attached to the variable attenuator connector side. This assembly has an advantage over the attenuator patch cord by allowing mateability with any industry standard connector without sacrificing return loss performance. Available in singlemode and multimode fiber.



SPECIFICATIONS

Range of Attenuation	Singlemode	0.5 to 35 dB	Maximum Input Optical Power	+20 dBm
	Multimode	0.5 to 20 dB	Wavelength Range (Singlemode)	1300 - 1620 nm
Return Loss	Singlemode	>50 dB	Wavelength Range (Multimode)	800 - 1580 nm
	Multimode	14 dB	Temperature Range	0° C to +40° C
			Resolution	0.1 dB

FIBER OPTIC ATTENUATORS

Attenuator Ordering Information:

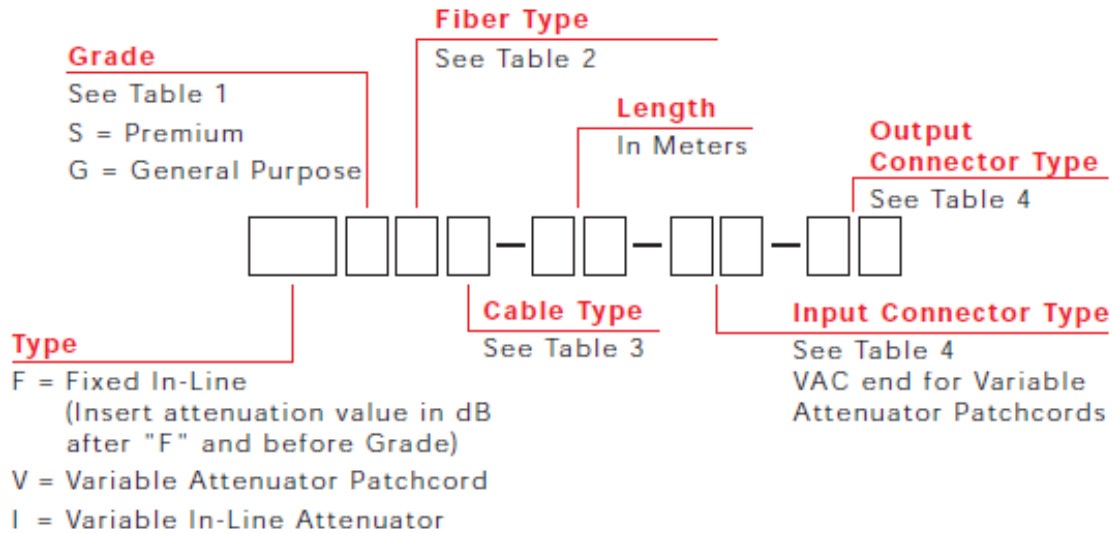


TABLE 1: Grade

Code	Description
S	Premium Grade • Comes with serialization and documentation of loss and end-face geometry. • Connector Loss <0.15 dB
G	General Purpose Grade • Connector Loss <0.3 dB

TABLE 2: Fiber Type

Code	Description
0	Corning SMF28 Singlemode
1	Lucent Style Singlemode
2	50/125 um Multimode
3	62.5/125 um Multimode
4	Corning HI1060

TABLE 3: Cable Type

Code	Description
0	3 mm Diameter
1	2 mm Diameter
4	900 um Hytrel Tight Buffer
5	3 mm Diameter Cable with Wire Conductor Between Connectors (Simplex Only)
6	Bare Fiber
8	900 um Loose Buffer
9	900 um TBII

TABLE 4: Connectors

Code	Connector Type
10	FC
15	FC/APC
20	ST
25	ST/APC
30	SC
35	SC/APC
40	LC
45	LC/APC
50	MU
90	Bare Fiber

Note: Connector losses measured against a master patchcord.