

### Attenuators

Fiber attenuators are used to control the power level of optical communication signals at the output of the light source and E/O converters. They are also used for the testing of linearity and dynamic range in photosensors.

ARIA attenuators are Telcordia GR-910-CORE compliant. Attenuation variations of 5% for <10 dB and 10% for >10 dB ensure accurate power output.



### Testing

Water Immersion - 7 days in 43°C, 5.5 pH water  
Vibration - 10-55 Hz freq, 1.52 mm amp for 2 hours  
Flex Test - 100 cycles with a 0.5 lb or 2 lb load  
Twist Test - 10 cycles with a 1.1 lb, 1.65 lb, or 3 lb load

Side Pull - 0.55 lb or 2.75 lb load at a 90 degree angle  
Cable Retention - 1 lb, 1.54 lb, or 4.4 lb load for 1 min  
Durability - 200 mating cycles with 3 ft, 4.5 ft, or 6 ft length  
Impact Test - 8 cycles with a 6 ft drop on 3 different axes

### Features

Precise attenuation values  
Environmentally stable and reliable  
Excellent return loss  
Bidirectional  
No air gap

### Applications

Telecommunications  
CATV  
Fiber-to-the-home  
Local Area Network  
(LAN) Test Equipment

### Specifications

Attenuation Range: 3~20 dB  
Operating Temperature: -40 to 75 °C  
Storage Temperature: -50 to 85 °C  
Return Loss UPC: >55dB  
Return Loss APC: >60dB

### Part Number



**1** Connector Type  
Singlemode  
SCU = SC/UPC  
SCA = SC/APC  
LCU = LC/UPC  
LCA = LC/APC  
FCU = FC/UPC  
FCA = FC/APC  
STU = ST/UPC  
  
Multimode  
SCM = SC  
LCM = LC  
FCM = FC  
STM = ST

**2** Wavelength  
35 = Singlemode 1310 nm and 1550 nm  
85 = Multimode 850 nm  
03 = Multimode 1300 nm  
83 = Multimode 850 nm and 1300 nm

**3** dB Value  
01 = 1 dB      10 = 10 dB  
03 = 3 dB      15 = 15 dB  
05 = 5 dB      20 = 20 dB  
Custom Values are Available

**4** Multimode Specifications  
Leave Blank for Singlemode  
3 = OM3 Aqua Body  
4 = OM4 Violet Body  
5 = 50 µm  
6 = 62.5 µm