

AIR-GAP VARIABLE ATTENUATOR

F1-2250, F1-2251

The attenuator is used for the controllable suppression of optical signal in a fiber optic link. The attenuation range is 20dB using 62.5/125 multimode or 9/125 singlemode fiber. The attenuator takes the place of a standard mating sleeve between two connectors.

PREPARATION:

- The attenuator should be mounted in a rack panel in place of a standard mating sleeve. The side the attenuator with the control ring and fixation ring (look for the painted dots) should be on the outer side of the rack to allow ease of handling.
- After two optical connectors are attached to either side of the attenuator, make sure the attenuator is not in the fixed position, i.e. the paint mark on the fixation ring should be aligned with the paint mark on the attenuator housing. A wire key is provided for adjusting the rings.

VARIATION:

- A reference reading of the signal passing through the attenuator should be taken using a light source and power meter. With the attenuator in the unfixed state, slowly rotate the control ring until desired attenuation is reached.

NOTE: CONNECTORS THAT ARE SPRING LOADED WILL REQUIRE ADDITIONAL ROTATION OF THE CONTROL RING BEFORE OPTICAL SIGNAL BEGINS TO CHANGE.

FIXATION:

- After the desired attenuation level is set, slowly rotate the fixation ring 45° in either direction. This will fix the attenuator at the present level.

NOTE: DO NOT TRY TO ROTATE THE CONTROL RING WHEN THE PAINT DOTS ARE NOT ALIGNED. DO NOT FORCE THE CONTROL RING OR THE FIXATION RING AT THE END POINTS OF THEIR ROTATION RANGE. THE ATTENUATOR MAY BREAK!