FC/APC Attenuators Singlemode

High quality inline wide range attenuators

The FC connector with screw coupling was the first connector with floating ferrule and a tuning feature. It is designed for use in high vibration environment securing reliable connections. As the Push pull designs are preferred in networks today the FC connector is mainly used on test equipment, where a good quality connection is required. Therefore many test equipment manufacturers still use it on their equipment. It is highly recommended for use in laboratories due to its construction and reliability.

Environment Requirements

Novobit FC/APC attenuators meet category E for Extreme environment and may be used between -40 and + 85°C. Mechanical interface complies to IEC 61754-13 and optical interface to IEC 61755-3-2. ROHS compliant.

Performance Requirements

IEC 61755-3-2 describes optical performance requirements for grade B, C and D for optical connectors. Novobit produce grade B for our attenuators offering low losses.

IEC 61300-3-34 test results Novobit connectors*:

Grade	50%	97%	Comment
B	0.125	0.25	Available

Return Loss: -55dB open end, -70dB connected
**result with Corning SMF-28 and similar fiber*

Applications:

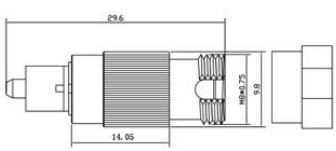
- Fine tuning network
- Reducing power in older fibers when using DWDM networks to increase the life time of the fiber
- Improve SR when needed at fiber end

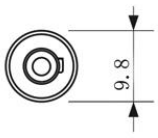
IEC 61753-3-1 performance standard tests:

IEC 61300-3-42	Adapter performance
IEC 61300-3-34	Attenuation (random mate)
IEC 61300-3-6	Return Loss
IEC 61300-2-1	Vibration
IEC 61300-2-2	Mating durability
IEC 61300-2-12	Impact (Method A
IEC 61300-3-10	Allowable gauge retention force
IEC 61300-2-17	Cold
IEC 61300-2-18	Dry heat – High temp. endurance
IEC 61300-2-22	Change of temperature
IEC 61300-2-27	Dust
IEC 61300-2-26	Salt mist
IEC 61300-2-46	Damp heat cyclic
IEC 61300-3-4	Attenuation against ref. conn.
IEC 61755-3-2	End face geometry

Specifications:

Operating Wavelength	1250 – 1625nm
Attenuation Levels	1, 2, 3, 4, 5, 6, 7, 8, 10, 15, 20
Attenuation Accuracy	+/-0.5dB (1~2db)
	+/-0.75dB (3~7db)
	+/-0.1dB (9~25dB)
Operating Temperature	-40~+85°C
Return Loss	Better -65dB
Housing Material	Metal
Sleeve	Ceramic
Ferrule	Ceramic





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Novobit reserves the right to change any specifications listed above.
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