



Hermetic Fiber Feedthrough (High Reliability)

Description

AFR provides hermetic fiber feedthrough by hermetically attach gold plated metal ferrule to fiber cables base on different applications to guarantee excellent hermetic feedthrough performance. SM, MM, polarization maintenance individual fiber or ribbon fiber available upon request. It is commonly used in PLC module, LD packaging and integrated optics packaging etc. for hermetic sealing purpose.

Key Features

- Hermetic Fiber Feedthrough
- High Reliability

Applications

- Submarine Optical Fiber Communication

Specifications

Parameter	Unit	Value
Number of Channel	CH	36//72
Max. Insertion Loss @ 1550 nm @ 23 °C	dB	≤ 0.15
PDL @ 1550 nm @ 23 °C	dB	≤ 0.05
Return Loss @ 1550 nm @ 23 °C	dB	≥ 60
Max.PMD (Design Guarantee)	ps	≤ 0.05
Helium Leak Rate	mBar*L/s	≤ 1E - 9
Water Pressure (Design Guarantee)	MPa	≥ 90
Fiber Type		G652D Corning SMF-28 Ultra 200kpsi Ribbon Fiber
Operating Wavelength	nm	1550
Operating Humidity	%RH	≤ 90
Operating Temperature	°C	- 30 to + 70
Continuous Optical Power Handling (Design Guarantee)	W	≤ 2
Storage Temperature @ ≥ 3 Months	°C	- 40 to + 85
Storage Temperature @ ≥ 28 Years	°C	- 10 to + 50
Storage Humidity @ ≥ 28 Years	%RH	≤ 95
Storage Air Pressure @ Absolute pressure(Design Guarantee)	Kpa	≤ 500
Mechanical Shock @ 2 ms, Hatt Sine (Desian Guarantee)	g	≥ 100
Longitudinal Fiber Pull Strength	N	≥ 5
Lateral Fiber Pull Strength	N	≥ 2.5
Functional Lifetime	Years	≥ 28
External Fiber Tail Length	m	6 to 6.5
Inernal Fiber Tail Length	m	6 to 6.5
Connectors		None

Ordering Information

FFT - ①① - ② - SUB

①①: Channels ② Choice of Fiber

36 - 36 Channel 1 - G652D Corning SMF - 28 Ultra 200 Kpsi Ribbon Fiber

72 - 72 Channel