



Panda Fiber Assembly with FC/APC Tunable Connectors

Polarization Maintaining (PM) Fiber Assemblies

AFL's Polarization Maintaining (PM) Fiber Assemblies utilize PANDA-style fiber in bare fiber and 900µm buffer fiber configurations combined with FC, SC, or LC terminations. These keyed connectors allow the use of industry standard adapters while giving you reliable and quality connections for applications where maintaining polarization propagation through the core of the fiber is necessary.

The axis orientation is maintained by using tunable connectors that have a high extinction ratio and low insertion losses. AFL can provide standard PM assemblies as specified below, or create a custom solution to meet the need of your specialty photonics applications.

Features

- Designed to meet Telcordia GR-326-CORE
- High extinction ratio
- Low polarization angle error
- Low insertion loss
- Slow-axis or fast-axis alignment
- Available in FC, LC, and SC terminations

Applications

- Specialty photonics
- Telecommunications (High speed and coherent)
- Modulators
- EDFAs
- Sensor applications
- Integrated optics

Technical Specifications

PARAMETER	VALUE	
Connector Type	FC/UPC, SC/UPC, LC/UPC	FC/APC, SC/APC, LC/APC
Typical Insertion Loss*	0.3 dB	0.4 dB
Maximum Return Loss*	-55 dB	-65 dB
Axis Alignment	±5 degrees, ±3 degrees, ±2 degrees	
Wavelength	1550 nm	
Maximum Insertion Loss*	0.5dB	
Minimum Extinction Ratios*	20 dB, 25 dB, 30 dB	
Fiber Type	PM PANDA Fiber (Standard, BIF, PI Coated)	
Operating Temperature	-20°C to 70°C	
Storage Temperature	-40°C to 85°C	

*Values given at room temperature

Ordering Information

CONNECTOR END A	CONNECTOR END B	FIBER TYPE	CABLE TYPE	WAVELENGTH	LENGTH
FC/APC	FC/APC	STANDARD PANDA	250 µM BARE FIBER	1550 NM	XXXX M
FC/UPC	FC/UPC	BI PANDA	400 µM BARE FIBER		
SC/UPC	SC/UPC	PI COATED PANDA	900 µM LOOSE TUBE		
SC/APC	SC/APC				
LC/UPC	LC/UPC				
LC/APC	LC/APC				
	NONE				

For standard and custom order inquiries, contact AFL customer service at 1-800-235-3423.