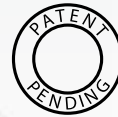
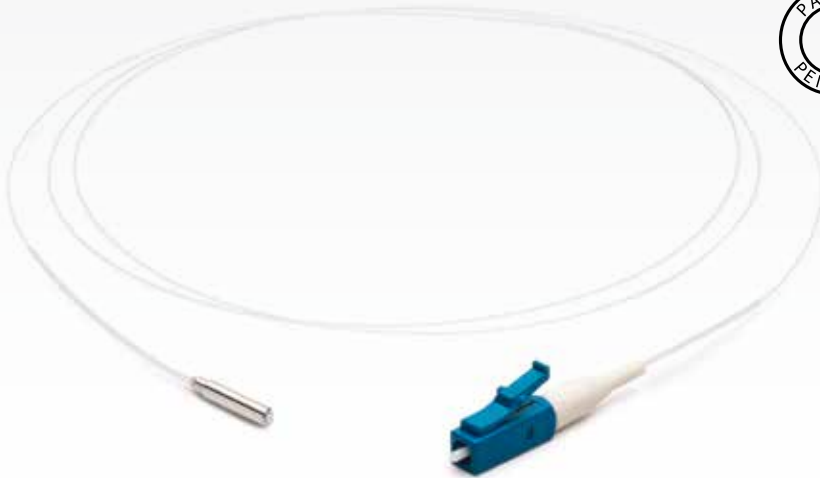


# PM FIBER ASSEMBLY



“ZERO KEY ERROR” Design Gives the Highest Extinction Ratio and the Best Repeatability



Polarization-maintaining fiber is unique and commonly used in fiber optic sensors, high precision optical modules, and high speed telecommunications due to its ability to maintain the polarization of the light inserted into it. Key error is one of the most critical factors in achieving better performance on PM fiber assemblies. Senko’s connector design and stable assembly result in minimum key error and better optical performance.

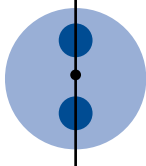
## FEATURES

- Extremely High Extinction Ratio of a typical 30dB
- Minimum Key error and excellent repeatability
- Low Insertion Loss, typical 0.2dB
- Premium Performance without the Premium Price
- Connectors types : FC/LC/SC/SUS ferrule
- Fiber sizes:  $\varnothing 0.25\text{mm}$ ,  $\varnothing 0.4\text{mm}$ ,  $\varnothing 0.9\text{mm}$ \* (*only loose type*)
- Fiber types: PANDA (*other fiber types are available upon request*)
- Wavelength: SM (*MM wavelength is available upon request*)

## Alignment Example

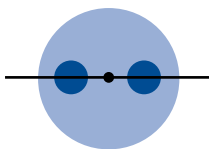
Slow Axis Aligned

Key



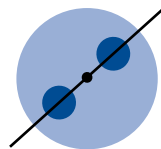
Fast Axis Aligned

Key



Custom Axis Aligned

Key



## APPLICATION

- Fiber Optic Sensing
- Fiber laser
- Optical Isolator
- Optical Amplifier
- High Speed Telecommunications



SENKO DESIGN

CHARACTERISTICS	TYPICAL	SPECIFICATION
Insertion Loss*	0.2dB	<0.5dB
Return Loss (UPC)*	55dB	>50dB
Extinction Ratio*	30dB	≥25dB
Key Error Angle	±3°	±5°

\*Tested at 1310/1550nm

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