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# THORLABS

## Part FA901 - DEC 11, 2019

Item # FA901 was discontinued on DEC 11, 2019. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

### FIBER OPTIC SACRIFICIAL INTERFACE, SINGLE MODE

- ▶ Provides Protection for Fiber-Coupled Instruments
- ▶ Operating Wavelength Range Between 980 - 1550 nm
- ▶ FC/PC Input and Output Connectors



**FA901**  
 980 - 1550 nm  
 $\leq 1.0$  dB Insertion Loss

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#### OVERVIEW

##### Features

- Protects External Fiber Connectors and End Faces of Fiber-Coupled Instruments
- Item Number and Wavelength Range Engraved on Housing
- FC/PC Input and Output Connectors

Thorlabs' FA901 Single Mode Fiber Optic Sacrificial Interface protects external fiber connectors and end faces of fiber-coupled instruments from damage caused by unclean connections or repeated use. Since its primary purpose is to act as an expendable intermediary component, this sacrificial interface is designed to minimize insertion loss and not add additional attenuation into the system; see the table to the right for details. Using this interface can help prevent unwanted instrument recalibrations and repairs due to damaged input connectors, resulting in reduced instrument downtime. Once a sacrificial interface is damaged, it should be properly disposed of and replaced to ensure full protection for end faces and fiber connectors.

This sacrificial interface has a 2.2 mm wide key female FC/PC input connector, making it compatible with both narrow key and wide key male connectors. The output connector is a 2.0 mm narrow key male FC/PC connector. The sacrificial interface is made with SM980-5.8-125 polarization-insensitive doped fiber. This interface includes two protective dust caps.

The FA901 will be retired without replacement when stock is

Item #	FA901
Fiber Connector	FC/PC
Key Size	Universal (Female 2.2 mm Wide-Key Input, Male 2.0 mm Narrow-Key Output)
Insertion Loss (Typical)	$\leq 1.0$ dB
Operating Wavelength Range	980 - 1550 nm
Insertion Loss <sup>a,b</sup> (Click for Details)	 Raw Data
Transmission (Typical)	$\geq 79.4\%$
Return Loss	$\geq 40$ dB
Maximum Input Power	300 mW
Polarization Dependent Loss (PDL)	$\leq 0.1$ dB
Operating Temperature	-40 to 85 °C
Fiber <sup>c</sup>	SM980-5.8-125

Limited  
STOCK

depleted. If you require this part for line production, please contact our OEM Team.

- The shaded region in this plot indicates the operating wavelength range that we specify for each sacrificial interface. Performance outside of this range is not guaranteed.
- The insertion loss was measured by using a detector in freespace, therefore additional losses can be expected if used as the intermediary element between two fiber-coupled components.
- This fiber was used to obtain the specifications in this table. It was also used as the internal fiber.