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FA00T - August 19, 2019

Item # FA00T was discontinued on August 19, 2019. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

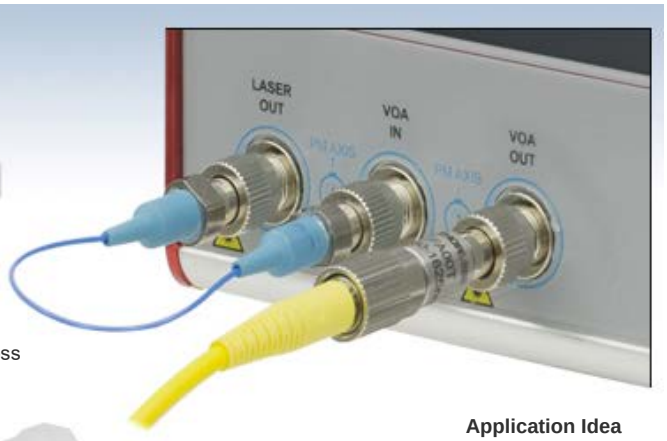
FIBER OPTIC SACRIFICIAL INTERFACES, SINGLE MODE

- **Provide Protection for Fiber-Coupled Instruments**
- **Operating Wavelength Ranges Between 633 - 1625 nm**
- **FC/PC Connectors**

FA602
633 - 780 nm
≤2.0 dB Insertion Loss

FA901
980 - 1550 nm
≤1.0 dB Insertion Loss

FA00T
1260 - 1625 nm
≤0.4 dB Insertion Loss



Application Idea

FA00T Used to Protect the End Face of the TLX1 Tunable Laser Source When Connecting a Fiber Patch Cable

Hide Overview

OVERVIEW

Features

- Protect 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' Single Mode Fiber Optic Sacrificial Interfaces protect external fiber connectors and end faces of fiber-coupled instruments from damage caused by unclean connections or repeated use. Since their primary purpose is to act as an expendable intermediary component, each sacrificial interface is designed to minimize insertion loss and not add additional attenuation into the system; see the table to the right

Item #	FA00T	FA901	FA602
Fiber Connector	FC/PC		
Key Size	Universal (Female 2.2 mm Wide-Key Input, Male 2.0 mm Narrow-Key Output)		
Insertion Loss (Typical)	≤0.4 dB	≤1.0 dB	≤2.0 dB
Operating Wavelength Range	1260 - 1625 nm	980 - 1550 nm	633 - 780 nm
Insertion Loss[a,b] (Click for Details)	Raw Data	Raw Data	Raw Data
Transmission (Typical)	≥91.2%	≥79.4%	≥63.1%
Return Loss	≥40 dB		
Maximum Input Power	500 mW	300 mW	
Polarization Dependent Loss (PDL)	≤0.1 dB		
Operating Temperature	-40 to 85 °C		
Fiber[c]	SMF-28-Ultra	SM980-5.8-125	SM600

- The shaded region in these plots 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.

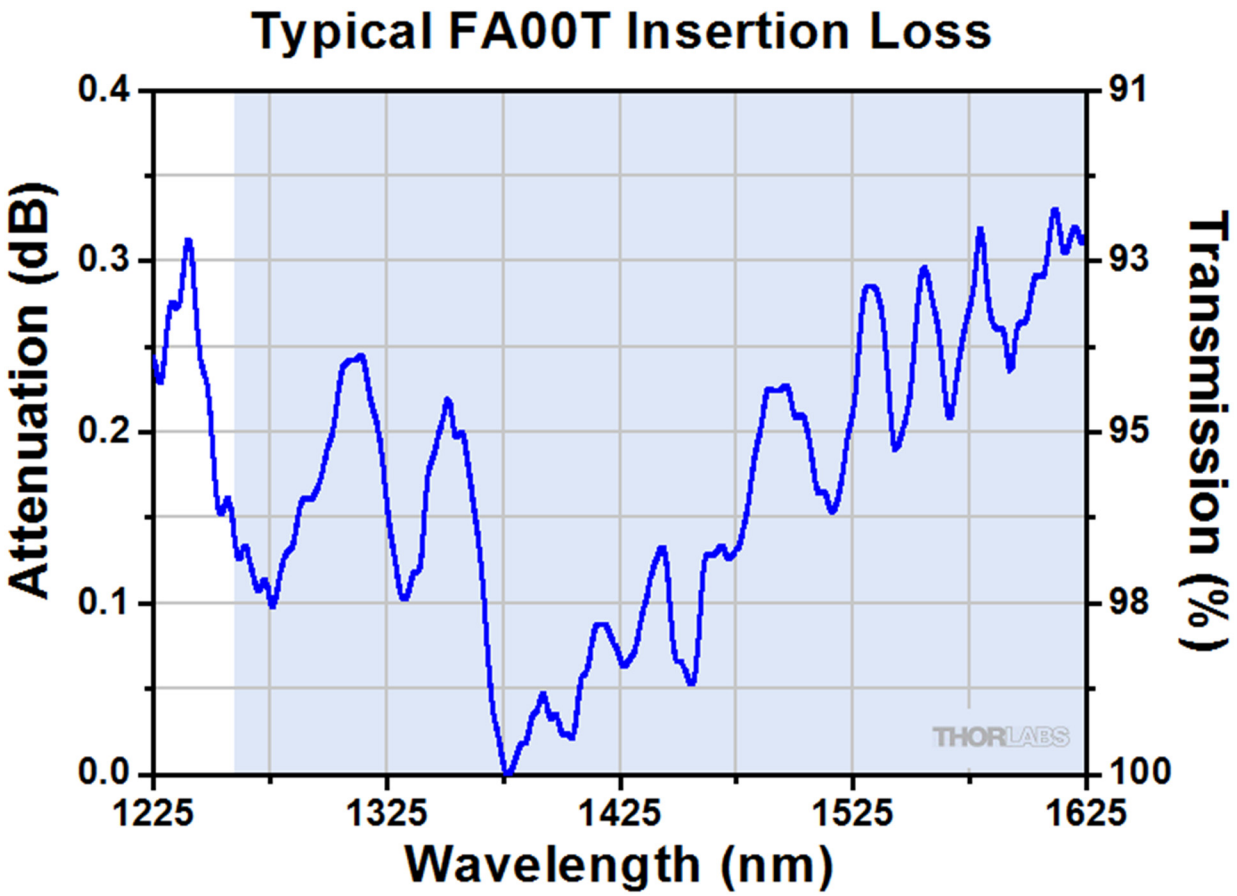
for details. Using these interfaces
can help prevent unwanted instrument recalibrations and repairs due to damaged input connectors, resulting in reduced instrument downtime. Once a sacrificial interface is damaged, it should be properly disposed and replaced to ensure full protection for end faces and fiber connectors.

Each 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. For the output, each one has a 2.0 mm narrow key male FC/PC connector. These sacrifical interfaces are made with polarization-insensitive doped fiber; the specific fiber type used for each is listed in the table. Each interface includes two protective dust caps.

Hide Fiber Optic Sacrificial Interfaces

Fiber Optic Sacrificial Interfaces

Part Number	Description	Price	Availability
FA00T	Fiber Optic Sacrificial Interface / Attenuator, 1260 - 1625 nm, ≤0.4 dB, FC/PC	$51.97	5-8 Days
FA901	Fiber Optic Sacrificial Interface / Attenuator, 980 - 1550 nm, ≤1.0 dB, FC/PC	$52.14	Today
FA602	Fiber Optic Sacrificial Interface / Attenuator, 633 - 780 nm, ≤2.0 dB, FC/PC	$47.38	Today

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FA00T
60-1625