

# PermLock™ Fiber Optic Mechanical Splice

*Fiber splices made easy, reliable, and low cost*  
(patent pending)

## Product Description

The Agiltron's *PermLock™ Fiber Optic Mechanical Splice* is the latest technology to connect two fibers easily and reliably without the use of fusion splicing. Designed for aerospace applications, it offers a hazard-free-environment, absence of spark, high voltage, and heat. Moreover the glass sealed splice offers low optical loss, wide-temperature operation, 25-year service life, and low cost of ownership. The patent pending design enables fiber self-alignment with high repeatability. A "light-bridging" material fills the fiber gap for stable, ultra low loss splice. Agiltron supplies a hand-held and battery powered curing kit for quick and easy cleave and splicing, even with polyimide coating fiber. PermLock™ Fiber Optic Splice has passed the most stringent aerospace qualification. The splice has several outer-jacket options suited for various applications. This product is well suited for applications in aerospace, shipboard/submarine, mining, and communication networks, as well as field optical fiber repair and fiber-to-home installation.



## Performance Specifications

Fiber Optic Mechanical Splice	Typical	Unit
Insertion Loss <sup>1</sup>	< 0.1	dB
Return Loss	< 40	dB
Cable Diameter	1.8, 2.2, 3.0	mm
Splice Dimension	< Φ 4.2 x 40	mm
Operating Temperature	-55 ~ 165	°C
Pull Strength	10	LB
Fiber Types	SM / MM	

1. Excluding connectors.

## Features

- Low Insertion Loss
- Low Reflection Loss
- Easy to Use
- High Reliability
- Rugged
- Spark Free
- Low Cost

## Applications

- LAN/MAN/WAN
- Military
- Aerospace
- Field Use
- Mining