

# PermLock™ Fiber Optic Mechanical Splicing Tool Kit



Fiber splices made easy, reliable, and low cost

DATASHEET

[Return to the Webpage](#)



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.

## 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



## Specifications

Parameter	Min	Typical	Max	Unit
Insertion Loss	0.01		0.15	dB
Storage Temperature	-40		71	°C
Operating Temperature	-55		125	°C
Cable Twist/Pull			10	lbs
Dimension	420 x 300 x 110			mm
Weight	9.5			LB

**Legal notices:** All product information is believed to be accurate and is subject to change without notice. Information contained herein shall legally bind Agiltron only if it is specifically incorporated into the terms and conditions of a sales agreement. Some specific combinations of options may not be available. The user assumes all risks and liability whatsoever in connection with the use of a product or its application.

Rev 04/24/25