

# Mechanical Splice Couplers

## Low Loss and Quick Installation

The Optix America Mechanical Splice Couplers provide a reliable solution for permanent or emergency optical fiber connections without fusion splicers. By utilizing precision-positioned V-shaped grooves and high-grade optical index matching gel, these couplers achieve low loss while minimizing the effects of air gaps or imprecise cleaves. The versatile design supports both 900µm and 250µm fibers, ensuring high-performance connections for single-mode and multimode applications. Additionally, our mechanical splice couplers are reusable up to five times, making them an ideal, quick-response solution for FTTH installations, enterprise networks, or emergency repairs.



## Features

- Mechanical splice couplers join two optical fibers without using fusion splicers
- Designed for 900µm and 250µm singlemode and multimode fiber
- Accurately positioned V-shaped grooves provide low insertion and return loss, while index-matching gel reduces the effects of imprecise cleaves
- Quick and easy installation takes less than one minute
- Reusable up to five times
- Available in ten mechanical splice couplers per pack

## Specifications

Parameter	Value
Application	250µm and 900µm singlemode and multimode single fiber
Size	45mm length, 4.2mm width, 4.7mm height
Operation Time	Approximately one minute
Insertion Loss	≤ 0.25 dB(1310nm & 1550nm)
Grip Strength 125µm Glass	>5 N
Clamp Force on Tight Buffer	>8 N
Temperature	Usable between -40°C~+75°C
Reusability	Five Times, Δ IL ≤ 0.2dB Δ RL ≤ 5dB

## Ordering Information

Part Number	Description
MS-250-900-10	Mechanical Splice Couplers for 900µm and 250µm multimode or singlemode fiber. Ten per Pack.