

Mechanical Splice Couplers

Low Loss and Quick Installation

The Optix America Mechanical Splice Couplers are used for permanent or emergency connections of optical fibers without employing fusion splicers. Low loss is obtained by utilizing precision positioning of the fiber end faces by highly accurately positioned V-shaped grooves and the use of high-grade optical index matching gel to reduce the effects of imprecise cleaves and any air gap between the end faces. The versatile design is used for 250um and 900um optical fibers providing high performance connections of singlemode and multimode fibers. Mechanical splice couplers are reusable up to five times and are suitable for connecting optical fibers in emergency repair situations, enterprise or FTTH installations, or anywhere a quick solution is required.



Features

- Mechanical splice couplers splice two optical fibers without using fusion splicers
- Designed for 900um and 250um singlemode and multimode fiber
- Index matching gel reduces the effects of imprecise cleaves
- Accurately positioned V-shaped grooves provides low insertion loss and return loss
- Installation is quick and easy and takes less than one minute
- Reusable up to five times
- Ten mechanical splice couplers per pack

Specifications

PARAMETER	VALUE
Application	250um and 900um 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)
Fasten Strength 125um Glass	>5 N
Clamp Force on Tight Buffer	>8 N
Temperature	Usable between $-40^{\circ}\text{C} \sim +75^{\circ}\text{C}$
Reusability	Five Times, Δ IL ≤ 0.2 dB Δ RL ≤ 5 dB

Ordering Information

PART NUMBER	DESCRIPTION
MS-250-900-10	Mechanical Splice Couplers for 250um and 900um multimode or singlemode fiber. Ten per Pack.