

# Polarization Maintain Fiber Splicer

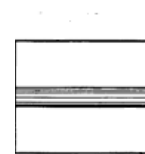
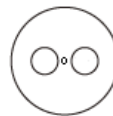
(patent pending)

## Product Description

The TUNE PM splicer adds two special manual rotary fiber holders to a regular fusion splicer and combines custom software and hardware modification. In operation, the axes of the fiber stress are simply aligned manually by visually matching the patterns on the display, or by active monitor the ER. The fusion splicing will then be performed automatically with pushing a button. The process is fast with ER>23 by visual alignment along. High ER>27 can be easily achieved by actively monitoring the ER during manual rotation.

The splicing consists following steps:

1. Select The PM Splicer Program 5
2. Strip/Cleave Fiber-Just like regular splicing
3. Load Fiber -Just like regular splicing
4. Pre-Align Fiber by push ▶
- 5, Manual Align fiber to achieve single line on the display
6. Push the GREEN Reset Button
7. Push the Splicing Button ▶



## Features

- Low Cost
- Low Loss
- High ER
- Fast

## Applications

- Production
- Test
- Field repair

## Performance Specifications

| TUNE PM SPLICER | Min              | Typical | Max  | Unit |
|-----------------|------------------|---------|------|------|
| Wavelength      | 450 <sup>2</sup> |         | 2500 | nm   |
| Insertion Loss  | 0.01             | 0.1     | 0.3  | dB   |
| ER              | 23 <sup>1</sup>  | 25      | 27   |      |

Notes:

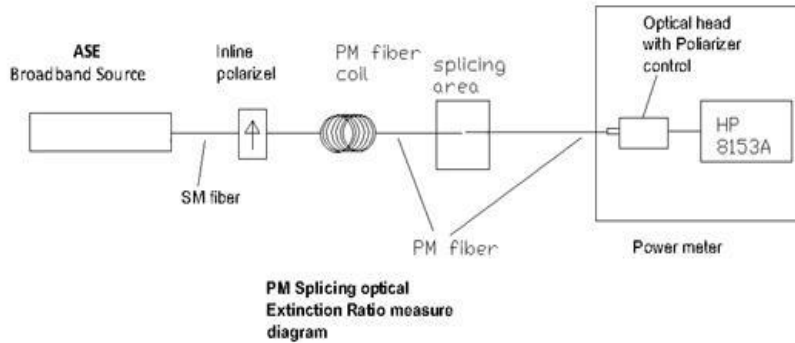
1. Visual alignment
2. Requires special jig

# Polarization Maintain Fiber Splicer

## Optional Active Monitoring Splicing

1. Connect a polarization light source to one end of fiber and connect polarization extinction ratio meter at the other end. We offer a manual polarization rotator that convert HP/Agilent optical power meter into a polarization extinction meter (one can order the polarizer part \$950)

1. Perform all the steps about and add a fine tune during manual rotation to achieve >27 ER, then splicing



## Ordering Information

|               |                          |  |                          |                          |                          |                          |                          |
|---------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>PMSPL-</b> | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|               | <b>175 Type</b>          | <b>Wavelength</b>  |                          | <b>Active Monitoring</b> |                          |                          |                          |
|               | 1                        | 450 = 4<br>780 = 7<br>850 = 8<br>1060 = 1<br>1310 = 3<br>1550 = 5<br>2000 = 2<br>Special = 0 | 0                        | 1                        | 1                        | 0                        | 0                        |