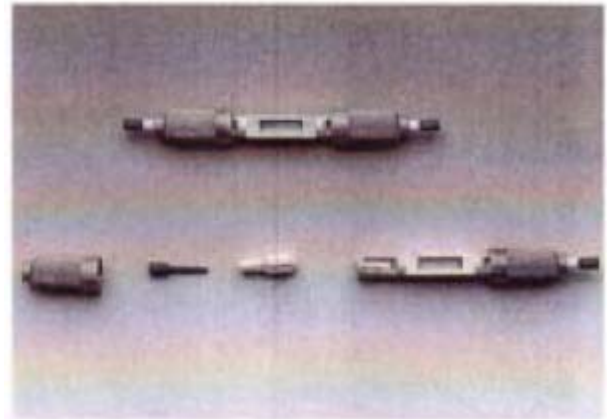
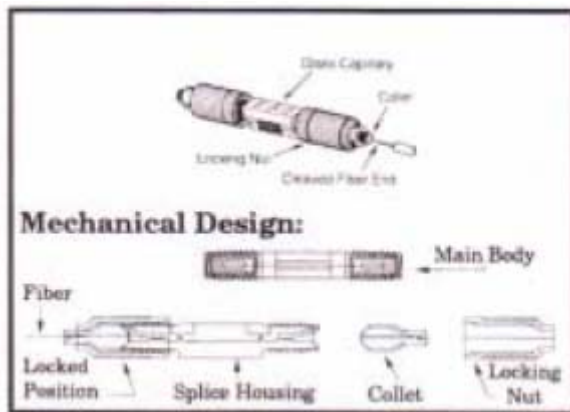


Mechanical Splice

The mechanical splice is a high performance, low cost, easy to install, fully mechanical fibre optical splice. Employing a visible glass capillary alignment member, that is preloaded with index matching gel, the user can inspect the fibre location during installation. The splice is tuneable and reusable for most emergency or permanent installation requirements.

Cross Section of the Mechanical splice



Overview of the installation procedure

- Prepare, clean and cleave the fibre ends.
- The Cleave Length should be 7-9 millimetres as illustrated below.
- Align and butt the cleaved end faces of the optical fibre in the visible central glass guide. The moulded-in springs hold the buffers during the installation and/or tuning, without the need for any extra tooling or fixing.
- To permanently secure the fibre(s), twist the grey locking nut (like a wire nut) to lock the internal collet onto the buffer. This action is similar to a pin Vice or drill chick, as it firmly grips the buffer when the nut is tightened. It provides a higher retention that the fibre or buffer tensile strength.

Specifications

- Mechanical splice has a glass reinforced Liquid Crystal Polymer (LCP) plastic housing
- Outside dimensions: Length 40mm Diameter: max 5.7mm
- Average splicing loss: Less than 0.2dB and is tuneable for minimum insertion loss
- Mean Loss: Less than 0.01dB and is tuneable for minimum loss
- Back reflection (Return Loss): -50dB
- Loss Variation during thermal cycling (-40 to +80°C) Less than 0.1 dB
- Fibre Retention: Greater than 1.25 Kg
- Coating Acceptance (buffer size): One splice accepts any combination from 250-900mm

Features

- Tuneable and reusable
- No fixtures or special tools required
- Uncovered glass capillary allows inspection of proper fibre location

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