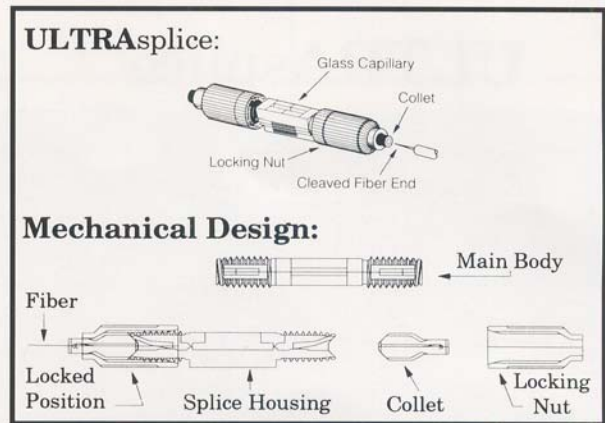
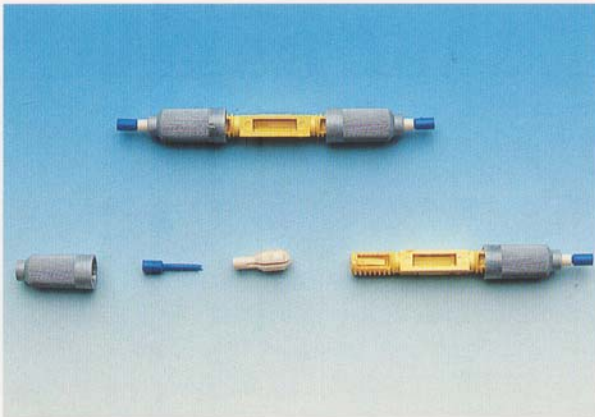


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ULTRAsplice



ULTRAsplice is a high performance, low cost, easy to install, fully mechanical Fiber Optic Splice. Employing a visible glass capillary alignment member, that is pre-loaded with index matching gel, the user can inspect the fiber location during installation. The splice is tunable and reusable for most any emergency (or permanent) installation requirement(s).

Overview of the installation procedure

Prepare, clean and cleave the fiber ends.

The **Cleave Length** should be 7-9 millimeters as illustrated below:



Align and butt the cleaved end faces of the optical fibers in the visible central glass guide. The molded-in springs hold the buffers during installation and/or tuning, without the need for any extra tooling or fixturing.

To permanently secure the fiber(s), twist the gray locking nut (like a wire nut) to lock the internal Collet onto the buffer. This action is similar to a Pin Vise, or Drill Chuck, as it firmly grips the buffer when the nut is tightened. It provides a higher retention than the fiber or buffer tensile strength.

Specifications of ULTRAsplice:

All parts are made and assembled in the United States of America

ULTRAsplice has a glass reinforced Liquid Crystal Polymer (LCP) plastic housing.

Outside Dimensions: **Length:** 40 millimeters **Diameter: (max)** 5.7 millimeters.

Average Splicing Loss*: Less than 0.2 dB and is tunable for minimum loss

Mean Loss*: Less than .007 dB and is tunable for minimum loss

Back Reflection (return loss)*: -50 dB

Loss Variation During Thermal Cycling (-40 to +80 deg. C): Less than 0.1 dB

Fiber Retention: Greater than 1,250 grams

Coating Acceptance (buffer size): One splice accepts any combination from 250-900 microns

Installation Time*: 30 to 45 seconds (after fiber preparation)

FEATURES: *Tunable and Reusable*
No fixtures or special tools required
Uncovered Glass Capillary allows visual inspection of proper fiber location
One ULTRAsplice accepts any combination of buffer sizes

Product #	Description
US-126	Singlemode
US-128	Multimode 125 micron
US-140	Multimode 140 micron
US-160	Multimode 160 micron
US-230	Multimode 230 micron
US-250	Multimode 250 micron
US-440	Multimode 440 micron
US-500	Multimode 500 micron

