GENERAL DESCRIPTION
The ZEUS D50 Fusion Field termination kit provides fast, easy, and high performance field terminations of fiber optic connectors utilizing 1.25mm and 2.5mm ferrules, on both SM and MM fiber (250µm, 600µm and 900µm) and cable from 1.6 to 3.1mm. The key to this system is DIAMOND’s new advanced “crocodile alberino” fusion ferrule assembly which eliminate the need of glue. The ferrule assembly, which is available in both PC and APC versions, provides a factory polished end face for low insertion loss and back reflection, as well as splice protection features. The fusion splice is performed and protected within the ferrule assembly eliminating the need for expensive and bulky splice housing, trays, holders, protectors, and fiber management.

FEATURES AND BENEFITS
- The ZEUS D50 splicer offers:
  - Easy manual fiber adjustment
  - Fast and user friendly connector on field termination
  - Fiber-to-fiber splicing
  - Precision “V-groove” alignment
  - Pre-splice fiber cleaning function
  - Adjustable arc-power
  - Fast and easy replacement of electrodes
  - Pre-programmed parameter for both MM & SM fibers
  - Integrated fiber retention check
  - Ferrule assembly closing directly onto fusion splice
  - Splice protection features
- Fiber/cable preparation and splicing tool kit for termination of F-3000®, E-2000®, SC, FC and ST™ connectors on both MM & SM fibers available.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>MULTIMODE</th>
<th>SINGLE MODE 0° PC</th>
<th>SINGLE MODE 6° PC</th>
<th>UNITS</th>
<th>TEST CONDITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss (IL)</td>
<td>typ. 0.2</td>
<td>typ. 0.25 max. 0.5</td>
<td>typ. 0.25 max. 0.5</td>
<td>dB</td>
<td>IEC 61300-3-4; λ = 1300/1550nm</td>
</tr>
<tr>
<td>Return Loss (RL)</td>
<td>min. 40</td>
<td>min. 50</td>
<td>min. 70*</td>
<td>dB</td>
<td>IEC 61300-3-6; λ = 1300/1550nm</td>
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<tr>
<td>Repeatability of IL</td>
<td>max. ±0.1</td>
<td></td>
<td></td>
<td>dB</td>
<td>IEC 61300-2-2; λ = 1300/1550nm</td>
</tr>
<tr>
<td>Service life</td>
<td>1000 mate/demate cycles</td>
<td></td>
<td></td>
<td></td>
<td>According to field experiences</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-25/+70°C</td>
<td></td>
<td></td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-25/+70°C</td>
<td></td>
<td></td>
<td>°C</td>
<td></td>
</tr>
</tbody>
</table>

* Measured with high precision reflectometer
** May be further limited by cable specifications

TERMINATION KIT
Displayed with rugged case (option upon request)
BASE KIT
1. ZEUS D50 fusion splicer
2. Power supply
3. Battery charger and battery packs (optional)
4. Fiber cleaver
5. Assorted tooling

AVAILABLE VERSIONS

F-3000® 600 KIT
Holder 600µm tight buffered left and right
Assembling tool F-3000®
Holder for Alberino Crocodile 1.25mm

F-3000® 900 KIT
Holder 900µm tight buffered left and right
Assembling tool F-3000®
Holder for Alberino Crocodile 1.25mm

E-2000®, SC, FC, ST™ KIT
Holder 900µm tight buffered left and right
Assembling tool E-2000®, SC, FC, ST™
Holder for Alberino Crocodile 2.5mm

OPTIONS
► Rugged case
► Cable processing set (Kevlar cutter, crimping pliers, Fiber holder 900µm-3000µm tight buffered
► Assembling tool E-2000®, SC, ST™, FC and F-3000®
► Fiber holder 250µm, left and right
► Fiber holder 900µm-3000µm tight buffered or loose tube left and right

TECHNICAL DATA
► Splicer with battery
  140 x 200 x 100 mm; ca. 2 kg (4.3 lbs)
► Field termination kit (Travel case)
  680 x 510 x 355 mm

ORDER INFORMATION
Please refer to the part numbers provided in the separate P/N list.
For other configurations, please contact your nearest local Diamond representative or fill in the contact form available on the www.diamond-fo.com website.