

# DIAMOND

## Fiber Optic Tools

### FIELD TERMINATION

#### 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  
*no need for cleaning during field use*
  - Pre-programmed parameter for both MM & SM fibers
  - Integrated fiber retention check
  - Ferrule assembly closing directly onto fusion splice  
*eliminates the need for special tools*
  - Up to 200 splices without recharging the battery
  - Rechargeable battery (optional)
  - USB port
  - External video output
- ▶ 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

	MULTIMODE 0° PC	SINGLE MODE 0° PC	SINGLE MODE 8° APC	UNITS	TEST CONDITIONS
Insertion Loss (IL)	typ. 0.2 max 0.5	typ. 0.25 max. 0.5	typ 0.25 max. 0.5	dB	IEC 61300-3-4; λ = 1300/1550nm
Return Loss (RL)	min. 40	min. 50	min. 70*	dB	IEC 61300-3-6; λ = 1300/1550nm
Repeatability of IL	max. ±0.1			dB	IEC 61300-2-2; λ = 1300/1550nm
Service life	1000 mate/demate cycles				According to field experiences
Operating temperature	-25/+70**			°C	
Storage temperature	-25/+70**			°C	

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



DIAMOND SA • Via dei Patrizi 5 • CH-6616 Losone • Switzerland  
 Tel. +41 91 785 45 45 • Fax +41 91 785 45 00 • e-mail info@diamond-fo.com

[www.diamond-fo.com](http://www.diamond-fo.com)

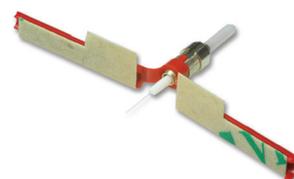
## ZEUS D50

(Fusion Field Termination Kit)

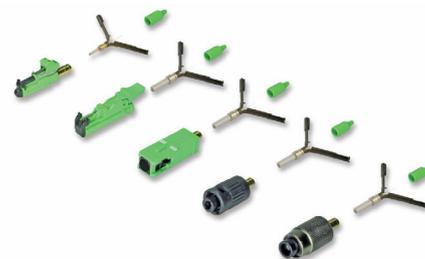
SINGLE MODE  
MULTIMODE



ZEUS D50 Fusion Splicer



1.25mm / 2.5mm Ferrule assembly  
(Crocodile Fusion Alberino)



F-3000™, E-2000™, SC, ST™ and FC Fusions

#### TERMINATION KIT

Displayed with rugged case (option upon request)



Specifications subject to change without notice

BDD 1951161 07\_16



## 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](http://www.diamond-fo.com) website.