

DIAMOND

Fiber Optic Components

CABLE ASSEMBLIES AND ADAPTERS

Telecommunications and Fiber Optics are developing at an incredible speed. To keep up with tomorrow's requirements the F-3000™ Small-Form-Factor (SFF) connector family was developed. SFF components themselves enable port spacing similar to RJ-45 design. Thanks to the experience and good results obtained with the Diamond E-2000™ connector standard, the F-3000™ connector includes many of the already proven features in combination with the SFF construction. The F-3000™ connector has been recently standardized as LF3 connector, thus clarifying and ensuring the mechanical compatibility of the F-3000™ connector with the LC adapter. This opens access to a broad field of existing applications, and will be increased with new customer specific solutions.

APPLICATIONS

- ▶ Telecommunications Networks
- ▶ CATV
- ▶ Local Area Networks (LAN)
- ▶ Data Processing Networks
- ▶ FTTx

STANDARDS

- ▶ IEC 61 754-28 "Fiber optic interconnecting devices and passive components - Type LF3 connector family"
 - ▶ EN 50377-16-1 Product specification: Part 16-1: Type LF3 APC simplex terminated on IEC 60793-2-50 category B1.1 and B1.3 single mode fibre with titanium composite ferrule for Category C
- The LF3 connector is compatible with all IEC 61 754-20 compliant adapters

AVAILABLE AS

- ▶ Terminated connector
- ▶ Connector set, (to be terminated with Diamond special equipment)

SPECIFICATIONS

STANDARD	MULTIMODE 0° PC	SINGLE MODE 0° PC	SINGLE MODE 8° APC	UNITS	TEST CONDITIONS
Insertion Loss (IL)	typ. 0.15 max. 0.4	typ. 0.1 max. 0.4	typ. 0.1 max. 0.4	dB	IEC 61300-3-4; λ = 1300/1550nm
Return Loss (RL)	typ. 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
LOW IL VERSION		SINGLE MODE 0° PC	SINGLE MODE 8° APC		
Insertion Loss (IL)	-	typ. < 0.1 max. 0.15	typ. < 0.1 max. 0.15	dB	IEC 61300-3-4; λ = 1300/1550nm
Return Loss (RL)	-	min. 50	min. 85*	dB	IEC 61300-3-6; λ = 1300/1550nm
Operating temperature	-40/+85**			°C	
Storage temperature	-40/+90**			°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

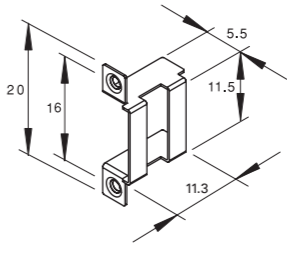
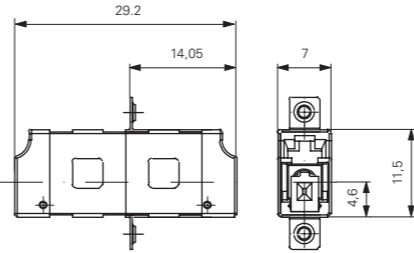
F-3000™ Simplex

SINGLE MODE PC/APC
MULTIMODE PC

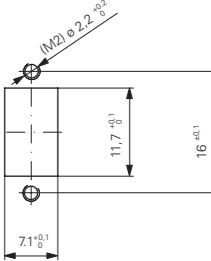


ADAPTER TYPES AND DIMENSIONS

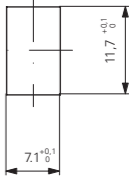
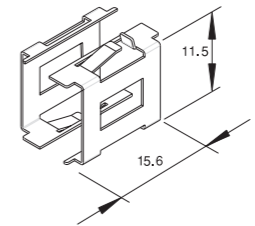
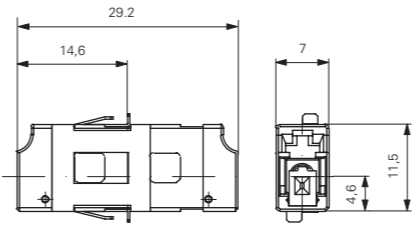
F-3000™ Simplex mating adapter with screw fixing clip



CUTOUT DIMENSIONS



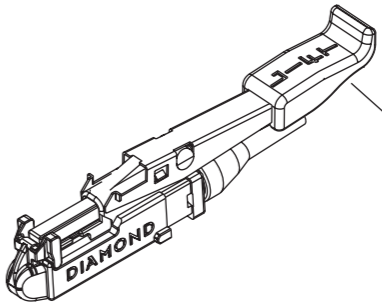
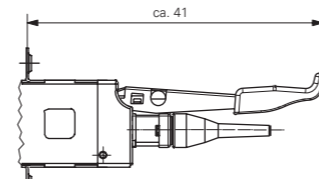
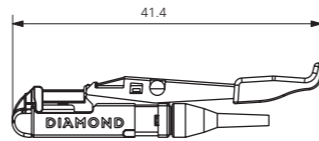
F-3000™ Simplex mating adapter with quick fixing clip



Max wall thickness 1.6 mm

OPTION: LONG THUMB-LATCH

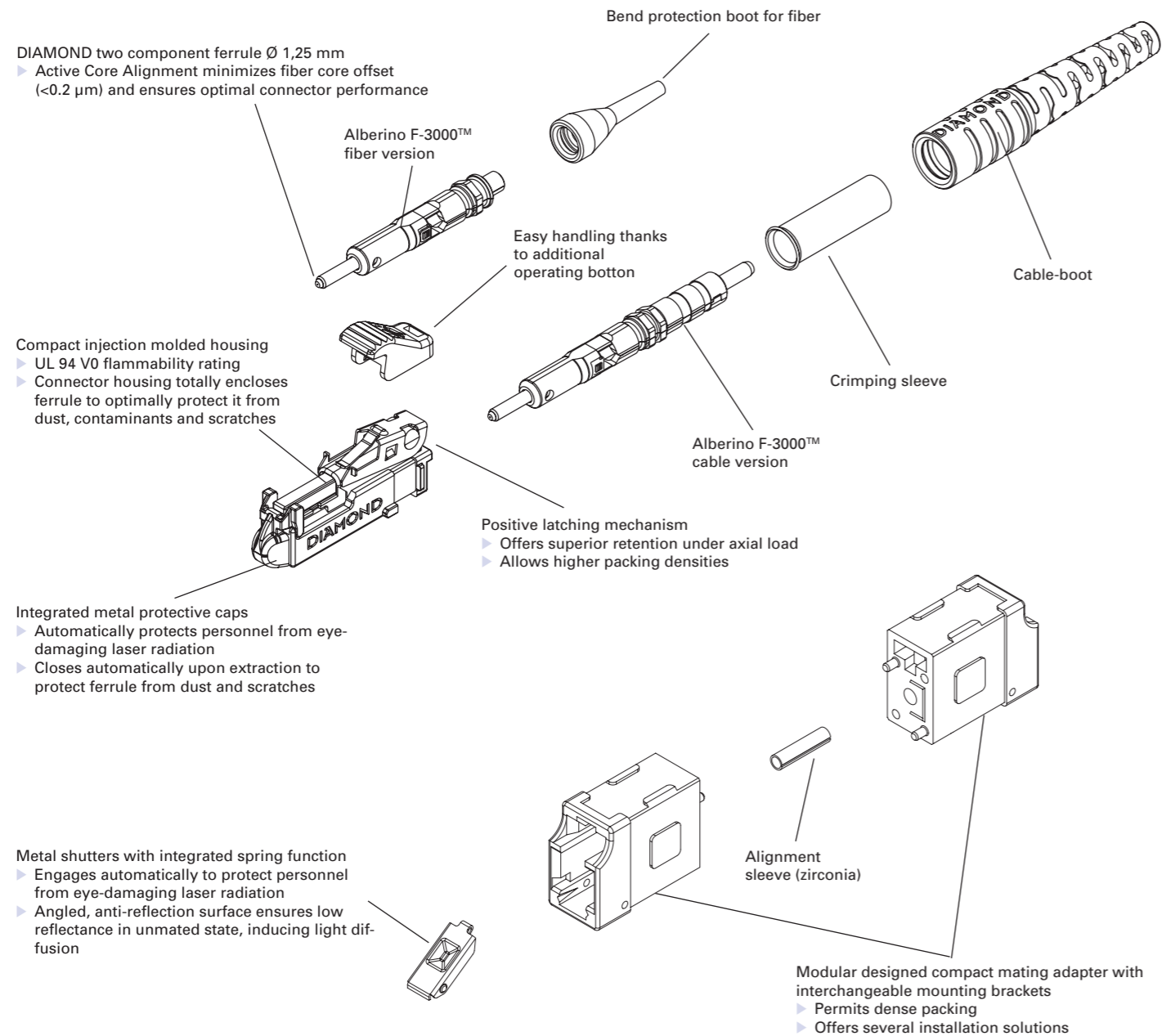
The ideal solution for special applications with difficult access



Lift the lever to release the connector

NOTES: - Cable ø 2.1 mm max.
- Please contact your local Diamond representative for additional information

Specifications subject to change
without notice
BDD 1950155 04_14



CONNECTOR TYPES AND DIMENSIONS

F-3000™ Simplex connectors 900 µm - 3 mm boot style

Available types:

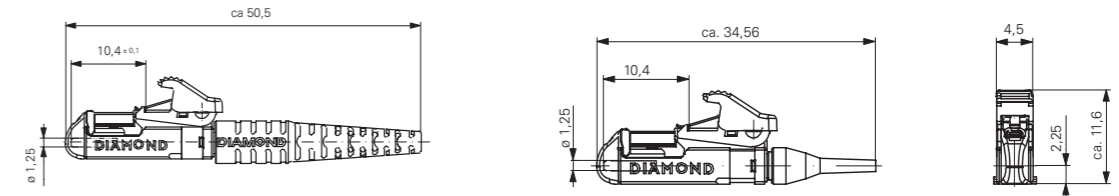
F-3000™ Simplex PC
F-3000™ Simplex APC
F-3000™ Simplex APC Low IL

Ferrule material:

Zirconia/metal insert

External parts:

Plastic



F-3000™ s Simplex connectors 900 µm - 3 mm boot style

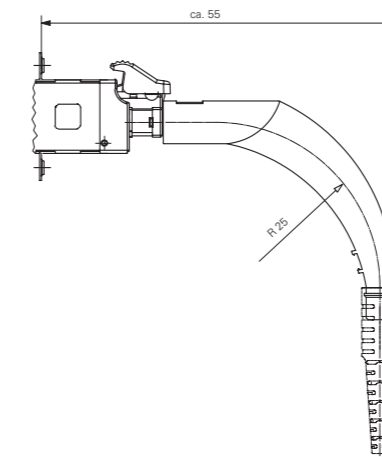
Available types:

F-3000™ s Simplex PC
F-3000™ s Simplex APC
F-3000™ s Simplex APC Low IL



The new F-3000™ s without protection cap and bottom is a simplified version of the F-3000 standard connector.

F-3000™ Simplex connectors 90° boot style (only for 1.6 mm - 3 mm cables)



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.

NOTE As standard, Diamond uses colored connector bodies, cable boots and mating adapter housings to identify the fiber type (SM or MM 50/62.5µm) and ferrule polish (PC or APC). Diamond's standard **connector/boot/adaptor** colors are as follows: Beige/Black/Beige for MM PC 50µm, Beige/Beige/Beige for MM PC 62.5µm, Blue/Blue/Blue for SM PC, and Green/Green/Green for SM APC. Other colors are available upon request.