DIAMOND Fiber Optic Components

CABLE ASSEMBLIES AND ADAPTERS

DESCRIPTION

Diamond FC connectors are available in SM PC/APC and MM PC as well as for the following technologies: PM, PZ, VIS/NIR, Low wavelengths, fusion and high temperature.

These connectors are manufactured with our patented two-part ferrule and "Active Core Alignment" (ACA) technology aiming to reduce the insertion loss values by minimizing fiber-to-fiber eccentricity.

Diamond FC connectors are available as terminated connectors, Splice On Connectors (SOC) and connector set to be terminated with Diamond special equipment.

SPECIFICATIONS FOR STANDARD VERSION

	MULTIMODE 0° PC	SINGLE MODE 0° PC	SINGLE MODE 8° APC	UNITS	TEST CONDITIONS
Insertion Loss (IL)	typ. 0.15 max. 0.4	typ. 0.2 max. 0.4	typ. 0.2 max. 0.4	dB	IEC 61300-3-4; λ = 1300/1550nm
Return Loss (RL)	min. 40	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 cycle			-	According to field experience
Operating temperature	-40/+85**			°C	
Storage temperature	-40/+90**			°C	

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

APPLICATIONS

Telecommunications, CATV, LAN, MAN, WAN, Test & Measurement, Industry, Medical

STANDARDS

► IEC 61 754-13	"Fiber optic interfaces - Type FC-PC connector
	formally ("

Detail specification-connector set of assessed quality for optical fibers and cables - Style FC"

AVAILABLE AS

- ▶ Terminated connector
- Connector set, (to be terminated with Diamond special equipment)
- ➤ Splice On Connectors to be terminated with DIAMOND ZEUS D50 Fusion field termination kit. For more information please refer to the part-specific ZEUS D50 Fusion Field Termination Kit datasheet.

FC Standard & Mini

SINGLE MODE PC/APC MULTIMODE PC



FC Standard



FC Mini



FC Splice On Connector (SOC)



ZEUS D50 Fusion splicer



DRAWINGS AND DIMENSIONS

FC STANDARD & MINI CONNECTORS

FC Standard connectors 900 µm - 3 mm boot style

Available types: FC Standard PC (Key ø 2 mm)

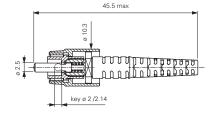
FC Standard PC (Key ø 2.14 mm)

FC Standard APC (Key ø 2 mm)

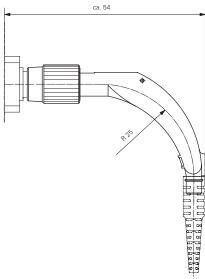
FC Standard APC (Key ø 2.14 mm)

Ferrule material: Zirconia/metal insert

External parts: Ni-plated brass







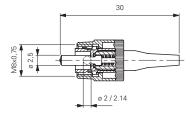
FC Mini connectors 900 µm - boot style

Available types: FC Mini PC (Key Ø 2 mm)

FC Mini PC (Key Ø 2.14 mm) FC Mini APC (Key Ø 2 mm) FC Mini APC (Key Ø 2.14 mm)

Ferrule material: Zirconia/metal insert

External parts: Ni-plated brass

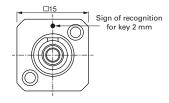


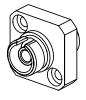
CUTOUT DIMENSIONS

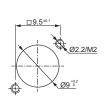
FC STANDARD & MINI MATING ADAPTERS

FC mating adapter square flange

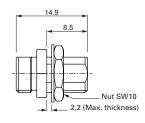
14.9

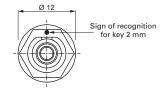






FC mating adapter hexagonal flange

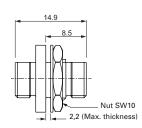


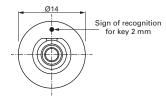






FC mating adapter round flange









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.

Other versions available upon request