DIAMOND
Fiber Optic Components

CABLE ASSEMBLIES AND ADAPTERS

SINGLE MODE PC/APC
MULTIMODE   PC

SPECIFICATIONS

	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 family"
▶ CECC 86 115-801   "Detail specification-connector set of assessed quality for optical fibers and cables - Style FC"

DESIGN/MATERIALS

▶ Ferrule: ∅ 2.5 mm, spring loaded (15 N), antirotation keyed
▶ Adaptor: Floating zirconia sleeve in Ni-plated brass housing

AVAILABLE AS

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

CONNECTOR TYPES AND DIMENSIONS

FC Standard connectors 900 μm - 3 mm boot style

Available types: **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

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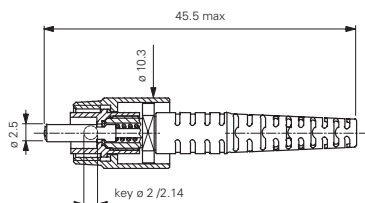
DIAMOND SA · Via dei Patrizi 5 · CH-6616 Losone - Switzerland
Tel. +41 91 785 45 45 · Fax +41 91 785 45 00 · e-mail info@diamond-fo.com
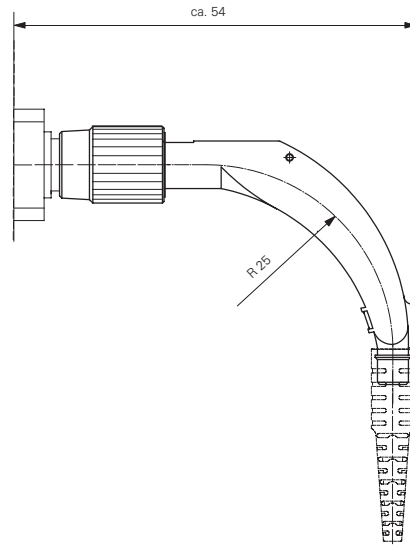
www.diamond-fo.com

FC Standard connectors 900 µm - 3 mm 90° boot style
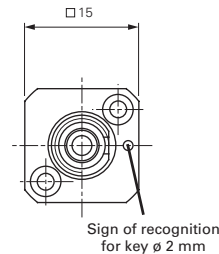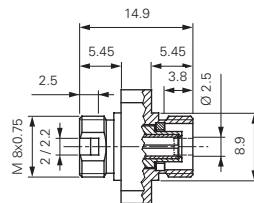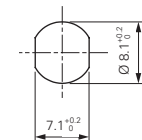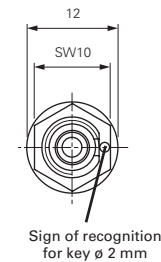
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ADAPTER TYPES AND DIMENSIONS

FC mating adapter square flange

14.9
5.45 5.45
2.5
M 8x0.75
2 / 2.2
3.8
Ø 2.5
8.9

□ 15
Sign of recognition
for key ø 2 mm

CUTOUT DIMENSIONS
M 2
9 $^{+0.2}_{0}$
□ 9.5 $^{±0.1}$
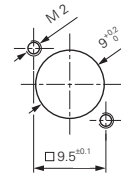
FC mating adapter hexagonal flange

14.9
4.3 8.5
M 8x0.75
2/2.2
3.8
Ø 2.5
2.2*
* Max thickness

12
SW10
Sign of recognition
for key ø 2 mm

Ø 8.1 $^{+0.2}_{0}$
7.1 $^{+0.2}_{0}$
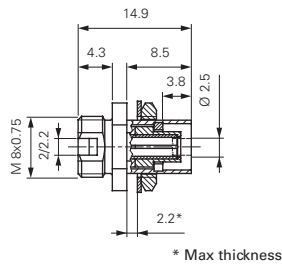
FC mating adapter round flange

14.9
4.3 8.5
M 8x0.75
2/2.2
3.8
Ø 2.5
2.2*
* Max thickness

14
SW12
Sign of recognition
for key ø 2 mm

8.1 $^{+0.2}_{0}$
Ø 9.1 $^{+0.2}_{0}$
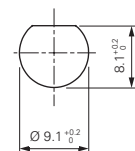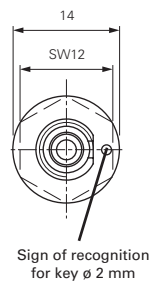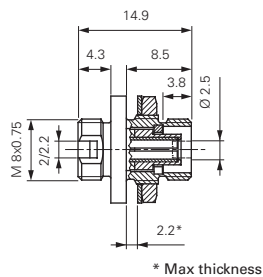
NOTE Diamond`s standard **boot** colors are as follows: Black for MM PC 50µm, Beige for MM PC 62.5µm, Blue for SM PC, and Green for SM APC. Other colors are available upon request.

ORDER INFORMATION

When ordering **standard** pigtails and patchcords and mating adapters, please refer to the part numbers provided in the enclosed P/N list.
When ordering pigtails or cable assemblies, please refer to the **connector type description** in the Available types section, and fill in the Simplex, Duplex, Multiple fiber Assemblies order form according to **those** denominations.
Other versions available upon request