

DIAMOND Fiber Optic Components

CABLE ASSEMBLIES AND ADAPTERS

Diamond's preterminated pigtails or patchcords without connector bodies of DIAMOND are products which allow the customer to choose the needed connector at the moment of the installation without loss of quality thanks to the technology of the DIAMOND "ALBERINO".

Offering a complete range of solutions, this technology is the right one for applications that presents different kind of connectors, simplifying cabling and allowing a great reduction of very expensive material inventory.

APPLICATIONS

Laser manufacturer, system manufacturer, system integrators, telecommunication, CATV, LAN ...

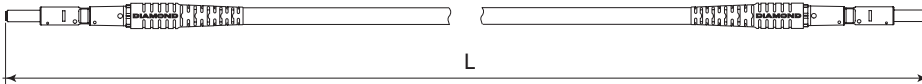
AVAILABLE AS

- ▶ Terminated assembly
- ▶ Alberino set, (to be terminated with Diamond special equipment)

DESIGN

The patchcord/pigtail design is based on following components:

- ▶ PC or APC prepolished "alberino" for: **E-2000™** or
SC or
FC or
ST™ connectors



Available types: **Alberino - PC assemblies**
Alberino - APC assemblies

Ferrule material: Zirconia/metal insert
Boot types: Standard 900µm - 3.0mm

SPECIFICATIONS

	MULTIMODE 0° PC	SINGLE MODE 0° PC	SINGLE MODE 8° APC	UNITS	TEST CONDITIONS
Insertion Loss (IL)	typ. 0.15 max 0.5	typ. 0.2 max. 0.5	typ 0.2 max. 0.5	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	Over service life
Service life	1000 mate/demate cycles				
Operating temperature	-40/+85**			°C	
Storage temperature	-40/+90**			°C	
Strain relief (cable)	>100			N	

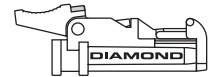
* Measured with high precision reflectometer
** May be further limited by cable specifications

Alberino-Patch

SINGLE MODE PC/APC
MULTIMODE PC



E-2000™



SC



FC



ST™



CONNECTOR HOUSINGS AND CAPS MATERIAL/COLOR

HOUSING TYPES	HOUSING MATERIAL/COLOR	CAP MATERIAL/COLOR
E-2000™ Multimode PC	Plastic, beige	Metal, black
E-2000™ Single Mode PC	Plastic, blue	Metal, black
E-2000™ Single Mode APC*	Plastic, green	Metal, black
SC Multimode PC	Plastic, beige	Plastic, white
SC Single Mode PC	Plastic, blue	Plastic, white
SC Single Mode APC*	Plastic, green	Plastic, white
FC PC (2.14 mm)	Metal, plastic black	Plastic, red
FC APC (2.14 mm)*	Metal, plastic black	Plastic, green
FC APC (2 mm)*	Metal, plastic red	Plastic, green
ST™ PC	Plastic black	Plastic, red

* For the angled connectors the position of the ferrule assembly is given by keeping the black stripe on the back end at the same side as the antirotation key

NOTE As standard, Diamond uses colored connector bodies and cable boots to identify the fiber type (SM or MM 50/62.5µm) and ferrule polish (PC or APC).

Diamond's standard **connector/boot** colors are as follows: Beige/ Black for MM PC 50µm, Beige/Beige für MM PC 62.5µm, Blue/Blue für SM PC, und Grün/Grün für SM APC. Other colors are available upon request. All housing types, except E-2000™ PC and APC are also available without caps.

AVAILABLE PLIERS FOR CONNECTOR ASSEMBLY

- E-2000™ pliers
- SC pliers
- FC pliers
- ST™ pliers

ORDER INFORMATION

When ordering standard assemblies, housings and pliers, please refer to the part numbers provided in the enclosed P/N list.

When ordering pigtails or cable assemblies, please refer to the **assemblies type description** in the Available types section, and fill in the Simplex, Duplex, Multiple fiber Assemblies order form according to **those** denominations.