

# DIAMOND

## Fiber Optic Components

### Alberino-Patch

#### CABLE ASSEMBLIES AND ADAPTERS

SINGLE MODE PC/APC  
MULTIMODE PC

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

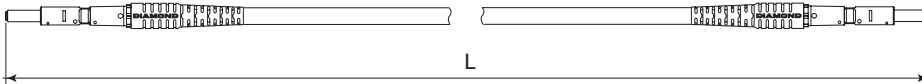
- ▶ Terminated assembly
- ▶ Alberino set, (to be terminated with Diamond special equipment)

#### DESIGN

The patchcord/pigtail design is based on following components:

- ▶ PC or APC prepolished "alberino" for:
 

<b>E-2000®</b>	or
<b>SC</b>	or
<b>FC</b>	or
<b>ST™</b>	connectors



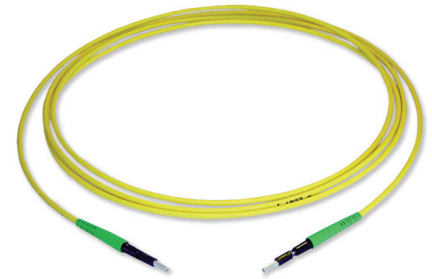
Available types: **Alberino - PC assemblies**  
**Alberino - APC assemblies**

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

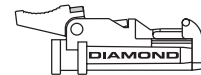
#### SPECIFICATIONS

	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	IEC 61300-2-2; λ = 1300/1550nm
Service life	1000 mate/demate cycles				According to field experience
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



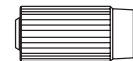
E-2000®



SC



FC



ST™



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Specifications subject to change  
without notice

BDD 1950142 08\_20

## 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

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.