

DIAMOND

Fiber Optic Components

"ALBERINO"
PRETERMINATED
PATCHCORDS WITHOUT
CONNECTOR BODY
SINGLE MODE PC/APC
MULTIMODE PC

Specifications:

STANDARD	Multimode	Single mode	Single mode 8° APC	Units	Test conditions
Insertion loss (IL)	typ 0.15 max 0.5	typ 0.2max 0.5	typ 0.2 max 0.5	dB	IEC 1300-3-4; $\lambda = 1300/1550\text{nm}$
Return loss (RL)	typ 40	50	min 70*	dB	IEC 1300-3-6; $\lambda = 1300/1550\text{nm}$
Repeatability of IL	max ± 0.1	max ± 0.1	max ± 0.1	dB	Over service life
Service life	1000 mate/demate cycles				
Operating temperature	-40 / +85			°C	May be further limited by cable specifications
Storage temperature	-40 / +90			°C	
Strain relief (cable)	> 100			N	

* Measured with high resolution reflectometer HP 8504A



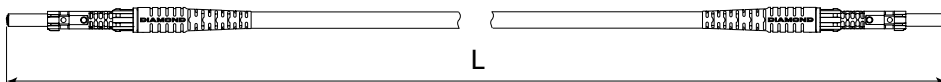
Description

The preterminated pigtails or patchcords 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's "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 storage.

Use

Laser manufacturer, plumbers, system manufacturer, system integrators, telcommunication, CATV, LAN ...



Design

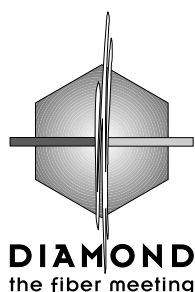
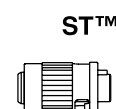
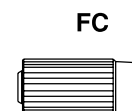
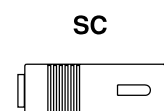
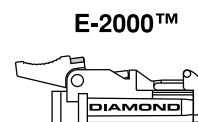
The patchcord/pigtail design is based on following components:

- PC or APC prepolished "alberino" for:

E-2000™	or
SC	or
FC	or
ST™	connectors.

Ferrule material: Zirconia/copper-nickel alloy insert (Pilzferrule)

- Standard cable boot of PUR plastic.
- Fiber/cable of your choice.



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Specifications subject to change without notice

002-037-207P003073

ORDER INFORMATION

Pigtails/Patchcords

SINGLE MODE

Type designation: **ALB-S0.66**
 Polish geometry: **Convex (PC)**

Dimensions Fiber/Cable	Order Number	
	Unterminated connector	Terminated assembly
9/125/900	2 9 0 - 0 0 0 - 0 0 1 L 0 0 0	2 9 0 - x x x - 0 0 1 L x x x
9/125/900/2100	2 9 0 - 0 0 0 - 0 0 2 L 0 0 0	2 9 0 - x x x - 0 0 2 L x x x
9/125/900/2500	2 9 0 - 0 0 0 - 0 0 3 L 0 0 0	2 9 0 - x x x - 0 0 3 L x x x
9/125/900/3000	2 9 0 - 0 0 0 - 0 0 4 L 0 0 0	2 9 0 - x x x - 0 0 4 L x x x
9/125/900/3500	2 9 0 - 0 0 0 - 0 0 5 L 0 0 0	2 9 0 - x x x - 0 0 5 L x x x

Connectors for other fiber and cable dimensions available upon request

1 2 3 4

MULTIMODE

Type designation: **ALB-M0.66**
 Polish geometry: **Convex (PC)**

Dimensions Fiber/Cable	Order Number	
	Unterminated connector	Terminated assembly
50/125/900	2 9 1 - 0 0 0 - 0 0 1 L 0 0 0	2 9 1 - x x x - 0 0 1 L x x x
50/125/900/2100	2 9 1 - 0 0 0 - 0 0 2 L 0 0 0	2 9 1 - x x x - 0 0 2 L x x x
50/125/900/2500	2 9 1 - 0 0 0 - 0 0 3 L 0 0 0	2 9 1 - x x x - 0 0 3 L x x x
50/125/900/3000	2 9 1 - 0 0 0 - 0 0 4 L 0 0 0	2 9 1 - x x x - 0 0 4 L x x x
50/125/900/3500	2 9 1 - 0 0 0 - 0 0 5 L 0 0 0	2 9 1 - x x x - 0 0 5 L x x x

Connectors for other fiber and cable dimensions available upon request

1 2 3 4

SINGLE MODE APC CONVEX

Type designation: **ALB-S8.66**
 Polish geometry: **8° angled convex (APC)**

Dimensions Fiber/Cable	Order Number	
	Unterminated connector	Terminated assembly
9/125/900	2 9 2 - 0 0 0 - 0 0 1 L 0 0 0	2 9 2 - x x x - 0 0 1 L x x x
9/125/900/2100	2 9 2 - 0 0 0 - 0 0 2 L 0 0 0	2 9 2 - x x x - 0 0 2 L x x x
9/125/900/2500	2 9 2 - 0 0 0 - 0 0 3 L 0 0 0	2 9 2 - x x x - 0 0 3 L x x x
9/125/900/3000	2 9 2 - 0 0 0 - 0 0 4 L 0 0 0	2 9 2 - x x x - 0 0 4 L x x x
9/125/900/3500	2 9 2 - 0 0 0 - 0 0 5 L 0 0 0	2 9 2 - x x x - 0 0 5 L x x x

Connectors for other fiber and cable dimensions available upon request

1 2 3 4

Housing

Description	Material	Order Number
E-2000™ PC	Plastic blue	0 7 0 - 5 0 1 - 0 9 9 V 1 0 1
E-2000™ APC*	Plastic green	0 7 0 - 5 0 1 - 0 9 9 V 2 0 2
SC PC	Plastic blue**	0 7 0 - 0 2 5 - 1 2 8 V 0 0 1
SC APC*	Plastic green**	0 7 0 - 0 2 5 - 1 2 8 V 0 0 2
FC PC (2.14 mm)*	Metal, Plastic black**	0 7 0 - 0 2 5 - 1 2 4 V 0 1 1
FC APC (2.14 mm)*	Metal, Plastic black**	0 7 0 - 0 2 5 - 1 2 4 V 0 1 2
FC APC (2 mm)*	Metal, Plastic red**	0 7 0 - 0 2 5 - 1 2 4 V 0 2 2
ST™ PC/APC	Plastic black**	0 7 0 - 0 2 5 - 1 2 6 V 0 0 1

* 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

** Protection caps available upon request.

Tools

Description	Order Number
E-2000™ pliers for housing assembly	2 2 1 - 1 0 0 - 0 3 2 V 0 0 1
SC pliers for housing assembly	2 2 1 - 1 0 0 - 0 4 1 V 0 0 1
FC pliers for housing assembly	2 2 1 - 1 0 0 - 0 9 3 V 0 0 1
ST™ pliers for housing assembly	2 2 1 - 1 0 0 - 0 9 4 V 0 0 1



Order Number Codes

¹ Connector code

² Connector code for termination on other end of assembly

- For pigtails: insert 000

- For patch assemblies: insert connector code for other connector

³ Code for fiber or cable

⁴ Length in meters

See ordering information for additional details