DIAMOND **Fiber Optic Components**

Constant innovation in the field of fiber optics has created demand for products with ever increasing performance requirements. Diamond has responded to this challenge and expanded the E-2000[™] connector system to address these increased needs throughout all market segments. In addition to the already existing superior design of the E-2000[™] technology, new innovative features have been added to the next generation of E-2000[™] to address the customer's highest expectations.

The new E-2000[™] 0.1 dB offers now unparalleled 0.1 dB maximum insertion loss random mating, exceptional repeatability, while maintaining the already well established, superior features of the E-2000[™] connector familv.

FEATURES AND BENEFITS INCLUDE

- Color-coding and mechanical keying to ensure correct matings.
- Spring-loaded protective cap for high power applications providing increased safety protection.
- Modular designed mating adapters with metal protective shutters for high power applications (available as single and compact duplex).
- E-2000[™] body designed to prevent endface damages during mating process.

STANDARDS

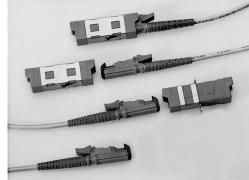
•	EN 86 275-801	Detail Specification: "Connector sets of assessed quality for optical fibers and cables - Type LSH universal" (05/99)
•	EN 86 275-802	Detail Specification: "Connector sets of assessed quality for optical fibers and cables - Type LSH-HRL universal" (05/99)
•	IEC 61 754-15	"Fiber optic connector interfaces – Part 15: Type LSH connector family"
•	ctc 222	Diamond internal Standard: "E-2000™ - 0.1 dB original″



DIAMOND SA Via dei Patrizi 5 CH-6616 LOSONE Tel. ++41-91/785 45 45 Fax ++41-91/785 45 00 e-mail: info@diamond-fo.com

E-2000[™]

SINGLE MODE / MULTIMODE (CECC/IEC LSH) E-2106.6/E-2116.6 SINGLE MODE APC E-2108.6 (CECC/IEC LSH-HRL)



Type designation: Mating sleeve: External parts:

E-2201.2

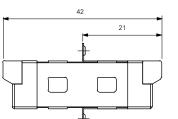
Zirconia Plastic blue (V1xx), green (V2xx)

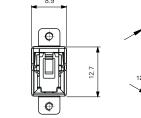
COLOR CODING

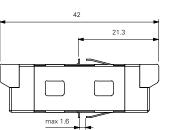
Frame color	Order Number		Frame color	Order
blue	167 - 0 x x - 001 V >	x 0 1	orange	167 - 0 x x
green	167 - 0 x x - 001 V >	x 0 2	yellow	167 - 0xx
black	167 - 0 x x - 001 V >	x 0 3	white	167 - 0xx
red	167 - 0 x x - 001 V >	× 04	violet	167 - 0 x x
	1 2	4 5		1 2

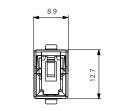
MECHANISCHE CODIERUNG

Frame no.	Order Number Fran	me no. Order
1 (red)	167 - 0 x x - 101 V x 00 4 (ora	inge) 167-0xx
2 (brown)	167 - 0 x x - 201 V x 00 5 (vio	let) 167-0xx
3 (yellow)	167 - 0 x x - 301 V x 00 6 (wh	ite) 167-0xx
	1 2 3 4	1 2

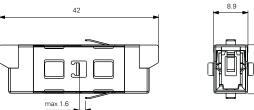


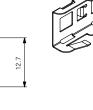




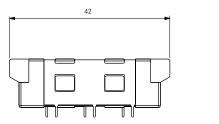


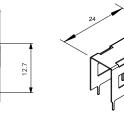
Type A: for higher packaging density within E-2000[™] cutout





Type B: for excellent stability within SC cutout

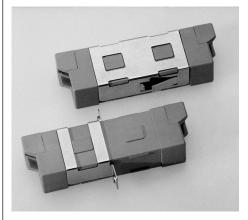




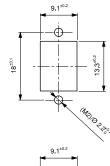
ORDER NUMBER CODES FOR MATING ADAPTERS 0.1 dB: insert "1" Adapter type: 0.15 dB: insert "0" Code for fixation type: - 1 for assembled screw fixing clip - 2 for assembled quick fixing clip (type A) - **0** for basic body - 4 for print fixation - 6 for assembled quick fixing clip (type B) Code for mechanical keying Code for basic body color - 1 for blue - 2 for green ⁵ Code for color coding Other fixations or colors upon request.

Specifications subject to changes without notice 002-037-210P009083

MATING ADAPTER E-2000[™] PC/APC



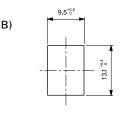
CUTOUT DIMENSIONS



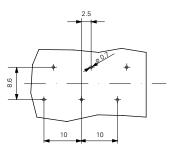


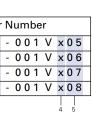
A)

Max wall thickness 1.6 mn

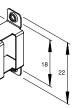


Max wall thickness 1.6 mm





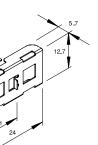




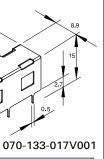
070-133-010V001

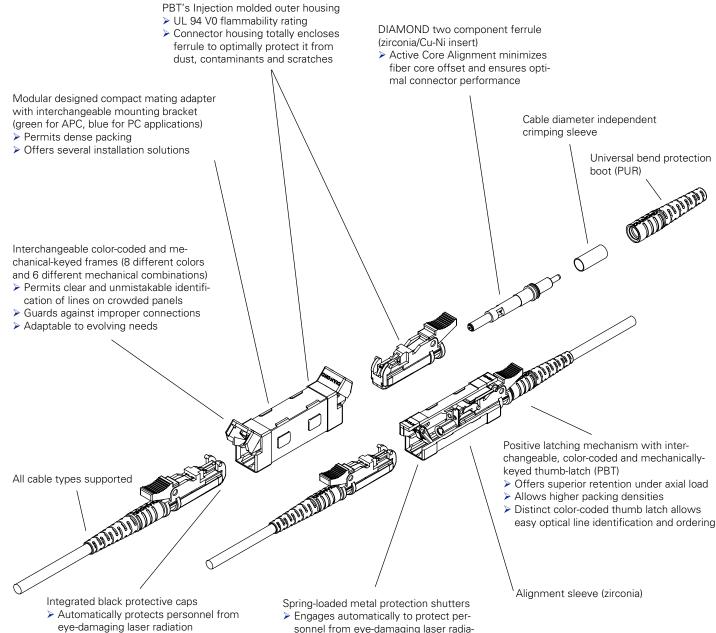


070-133-011V001



070-133-042V001





- > Closes automatically upon extraction to protect ferrule from dust and scratches
- > Suitable for high power applications
- sonnel from eye-damaging laser radiation
- > Angled, anti-reflection surface ensures low reflectance in unmated state, inducing light diffusion

SPECIFICATIONS

	Multimode	Single mode 0°PC	Single mode 8° APC	Single mode 8° 0.1 dB	Units	Test conditions
Insertion Loss (IL)	type 0.15 max 0.4	type 0.2 max 0.4	type 0.2 max 0.4	max 0.1	dB	IEC 61300-3-4; λ= 1300/1550nm
Return Loss (RL)	typ 40	min 50 min 70*		min 85*	dB	IEC 61300-3-6; λ= 1300/1550nm
Repeatability of IL		max ±0.1		-	dB	Over service life
Service life		1000 mate/der	nate cycles			
Operating temperature		5 **		°C		
Storage temperature		0 **		°C		

"H"

* Measured with high precision reflectometer.

** May be further limited by cable specifications.

ORDER INFORMATION FOR CONNERCTORS

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 Connector type: max 0.4 dB: insert "L" max 0.1 dB: insert "
⁵ Length in meters

Type designation: E-2106.6-11 Ferrule material: Zirconia/copper-nickel alloy insert (Pilzferrule) Plastic (blue) External parts: Convex (PC) Polish geometry: Dimensions Order Number Fiber/Cable Unterminated connector Terminated assembly 300 - x x x - 001 L x x x 9/125/900 300 - 000 - 001 L 000 9/125/900/2100 300 - 000 - 002 L 000 300 - x x x - 002 L x x x 9/125/900/2500 300 - 000 - 003 L 000 300 - x x x - 003 L x x x 9/125/900/3000 300 - 000 - 004 L 000 300 - x x x - 004 L x x x 9/125/900/3500 300 - x x x - 005 L x x x 300 - 000 - 005 L 000 **COLOR CODING** Thumb-latch blue green black red orange yellow Order No. 300 310 320 330 340 350

MECHANICAL KEYING

Thumb-latch No.	1 (red)	2 (brown)	3 (yellow)	4 (orange)	5 (violet)	6 (white)	
Order No.	400	410	420	430	440	450	
Connectors for other fiber and cable dimensions available upon request.							

Type designation: E-2116.6-11 Polish geometry:

•	•							
Dimensions	Dimensions Order N							
Fiber/Cable		Untermin	ated conn	ector	-	Terminate	d assemb	ly
50/125/900	3	01-00	0 - 001	L 0 0 0	30	1 - x x x	- 001 L	xxx
50/125/900/210	00 3	01-00	0 - 002	L 0 0 0	30	1 - x x x	- 002 L	ххх
50/125/900/250	00 3	01-00	0 - 003	L 0 0 0	30	1 - x x x	- 003 L	ххх
50/125/900/300	00 3	01-00	0 - 004	L 0 0 0	30	1 - x x x	- 004 L	ххх
50/125/900/350	00 3	01-00	0 - 005	L 0 0 0	30	1 - x x x	-005 L	ххх
62.5/125/900	3	01-00	0 - 001	L 0 0 0	30	1 - x x x	-011 L	ххх
62.5/125/900/30	000 3	01-00	0 - 004	L 0 0 0	30	1 - x x x	-014 L	ххх
≜					1	2	3 4	5
COLOR COD	ING				\		-	
Thumb-latch	blue	green	black	red	orange	yellow	white	violet
Order No.	301	311	321	331	341	351	361	371
·								

MECHANICAL KEYING

Thumb-latch No.	1 (red)	2 (brown)	3 (yellow)	4 (orange)	5 (violet)	6 (white)	
Order No. 401 411 421 431 441 451							
Connectors for other fiber and cable dimensions available upon request							

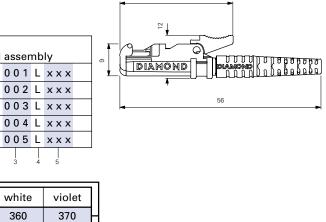
Tiber and cable dimensions available upon red

Type designat Ferrule materi External parts Polish geomet	Z	E-2108.6 Zirconia/ Plastic (g 8° angleo	copper- (reen)	nickel al	loy inse	rt (Pilzfe	errule)	
Dimensions					Number			
Fiber/Cable		Untermin	ated conn	ector		Ferminate	d assemb	ly
9/125/900	3 (302 - 000 - 001 L 000			302	2 - x x x	- 001 L	ххх
9/125/900/2100	3 (302 - 000 - 002 L 000			302	2 - x x x	-002 L	ххх
9/125/900/2500	3 (302 - 000 - 003 L 000			302	2 - x x x	- 003 L	ххх
9/125/900/3000	3 (02-00	0 - 004	L 0 0 0	302	2 - x x x	-004 L	ххх
9/125/900/3500 3 0 2 - 0 0			0-005	L 0 0 0	302	2 - x x x	- 005 L	ххх
						5		
Thumb-latch	green	blue	black	red	orange	yellow	white	violet
Order No.	302	312	322	332	342	352	362	372

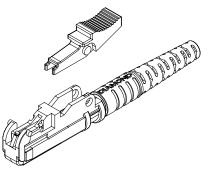
MECHANICAL KEYING

Thumb-latch No.	1 (red)	2 (brown)	3 (yellow)	4 (orange)	5 (violet)	6 (white)	
Order No.	402	412	422	432	442	452	

Connectors for other fiber and cable dimensions available upon request



31.5



white	violet	
361	371	_
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		1
		Γ

white	violet	
362	372	
		1