DIAMOND Fiber Optic Components

NETWORK ACCESSORIES

DESCRIPTION

Optical Sacrificial Interfaces are compact, in-line, male-to-female components, especially used in laboratory and field test equipment to protect front panel connector end-faces from the damage and contamination of repeated mating and de-mating.

The use of sacrificial interfaces avoids costly instrument re-calibration that usually requires the equipment to be returned to the manufacturer or specialized service centers and eliminates equipment down time. The sacrificial interface can be connected on the front of the panel instrument to facilitate user access (Fig. 1), or inside it (Fig. 2) for instrument manufactures who prefer to provide service and maintenance themselves. Diamond Sacrificial Interfaces are available for MM and SM fibers, with different end-face geometries: PC/PC, APC/APC, to a wide range of international connector standards.

The ACA technology (Active Core Alignment) technology used in the Diamond Sacrificial Interfaces ensures minimal additional insertion loss and back reflections combined with exceptional repeatability due to the ultrahigh tolerance Titanium interfaces.

Sacrifical Interface (SI) and UGT

(Optical Transition Adapters) SINGLE MODE APC/PC - PC/APC PC/PC - APC/APC MULTIMODE PC/PC



Ferrule type

Standard ø2.5mm, 1.25mm Zirconia/metal insert. Except for ST ø2.5mm tungsten carbide.

SPECIFICATIONS

	SM G. 652D	ММ	UNITS	TEST CON
Insertion Loss (IL)*	max 0.7 dB	max 0.7 dB	dB	IEC 61300-3-
Return Loss (RL)	PC min 45 / APC min 70**	min 35 dB	dB	IEC 61300-3-
Repeatability of IL	max ±0.3 (DiaLink max ±0.1)		dB	IEC 61300-2-
Service life	500 mate/demate cycles			
Operating temperature	-40/+85		°C	
Storage temperature	-40/+90		°C	

* Total Insertion Loss. Additional IL due to modal noise max 0.5 dB ** Measured with high resolution reflectometer HP

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3	IEC 61300-3-4; λ = 1300/1550nm SM - 850/1300nm MM
3	IEC 61300-3-6; λ = 1300/1550nm SM - 850/1300nm MM
3	IEC 61300-2-2; λ = 1300/1550nm SM - 850/1300nm MM
)	

ax 0.5 dB Other fibers available upon request



Fig. 1

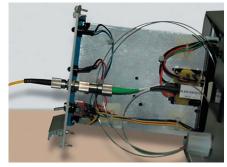


Fig. 2

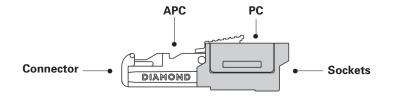


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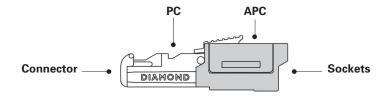
Specifications subject to change without notice BDD 1950167 03_22

ASSIGNMENT CONNECTOR FEATURES

Denomination: UGT APC/PC



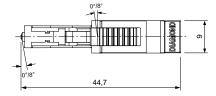
Denomination: UGT PC/APC



The first value (PC or APC) in the designation corresponds to the plug connector, the second value (PC or APC) to the socket side.

TYPES AND DIMENSIONS

E-2000[®] Available types: UGT E-2000[®] APC/PC SM UGT E-2000[®] PC/APC SM SI E-2000[®] APC/APC SM SI E-2000[®] PC/PC SM or MM External parts: Plastic (blue for PC and green for APC side; beige for MM)



STANDARD COLOR FOR E-2000®

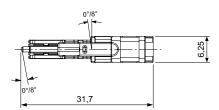
Version	SM APC/PC	SM PC/APC	SM PC/PC	SM APC/APC	MM PC/PC
Latch/Frame	green/blue	blue/green	blue/blue	green/green	beige/beige

Other latch and frame colors or frames with mechanical keying available upon request. (latch + frame of same color).

Please refer to the part-specific Color and mechanical Keying of E-2000[®] Simplex datasheet.

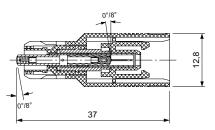
F-3000®

Available types:	UGT F-3000 [®] APC/PC SM UGT F-3000 [®] PC/APC SM SI F-3000 [®] APC/APC SM SI F-3000 [®] PC/PC SM or MM
External parts:	Black plastic for SM with marking for PC and APC side; Beige plastic for MM



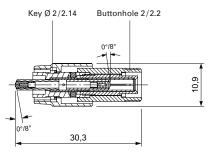
SC

Available types:	UGT SC APC/PC SM UGT SC PC/APC SM SI SC APC/APC SM SI SC PC/PC SM or MM
External parts:	Black plastic for SM with marking for PC and APC side; Beige plastic for MM



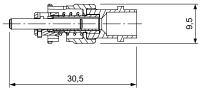
FC

Available types:	UGT FC APC/PC SM UGT FC PC/APC SM SI FC APC/APC SM SI FC PC/PC SM or MM
External parts:	Metal with marking for SM PC and APC side and for MM 50µm /62.5µm



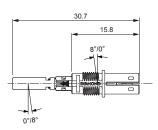
ST

Available types:	SI ST PC/PC SM or MM
External parts:	Metal with marking for SM and for MM 50µm /62.5µm



DiaLink

Available types:	UGT APC/PC UGT PC/PC SI APC/APC SI PC/PC
External parts:	Plastic with marking for SM PC and APC side and for MM 50µm /62.5µm



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** website.

Other versions upon request.