

# DIAMOND

## Fiber Optic Components

### MAS

(Multipurpose Adapter System)

SINGLE MODE PC /APC  
MULTIMODE PC



### NETWORK ACCESSORIES

The Diamond Multipurpose Adapter System (MAS) is our next generation of modular interchangeable adapters based on 2.5 mm diameter ferrule whose size, ease of cleaning and inspection, and optical performance make it an ideal choice for high performance applications such as test and measurement equipment.

This system is composed of a flange which provides an internal connection via a FC or Mini AVIM® style connector and a wide range of interchangeable adaptors including E-2000®, FC, SC, ST™, DIN, and F-3000® (a LC std compatible connector). The end-face of the internal connector is quickly and easily accessed for cleaning and inspection purposes by removing the external adaptor housing.

The MAS is suitable for SM (PC & APC versions) and MM applications.

### FEATURES AND BENEFITS

- ▶ Compact footprint (14 x 15mm)  
*Supports high density / small device applications*
- ▶ High precision metal construction  
*Long service life and high repeatability of IL values*
- ▶ Protruded ferrule of internal connector  
*Easy access for cleaning and inspection*
- ▶ Positive latching mechanism  
*High coupling reliability*
- ▶ One-touch locking mechanism  
*Easy of operation*
- ▶ Excellent optical performance (SM & MM)

### APPLICATIONS

- ▶ Test and measurement equipment
- ▶ Modular high optical power systems
- ▶ Bench flexible hybrid adapter measurement

### SPECIFICATIONS

	MULTIMODE 0° PC	SINGLE MODE 0° PC	SINGLE MODE 8° APC	UNITS	TEST CONDITIONS
Insertion Loss (IL)*		max 0.25		dB	IEC 61300-3-4; $\lambda = 1300/1550\text{nm}$
Repeatability of IL*		max $\pm 0.15$		dB	IEC 61300-2-2; $\lambda = 1300/1550\text{nm}$
Service life (adapters)		500 mating cycles			
Service life (connectors)		1000 mating cycles			
Operating temperature		-25/+70		°C	

\* Measured using two reference connectors. Valid for ferrule type 2.5 mm diameter. For other types, please contact your local DIAMOND representative



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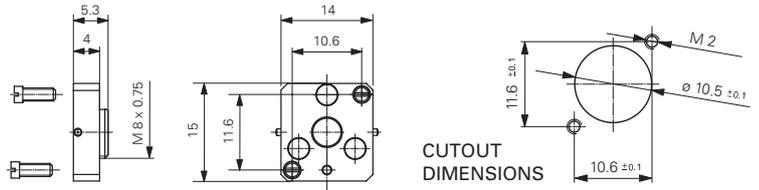
Specifications subject to change  
without notice

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TYPES AND DIMENSIONS

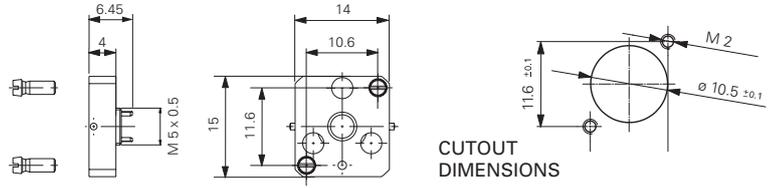
MAS Universal Flange (FC interface)

External parts: Metal  
Mating sleeve: None



MAS Universal Flange (Mini-AVIM interface)

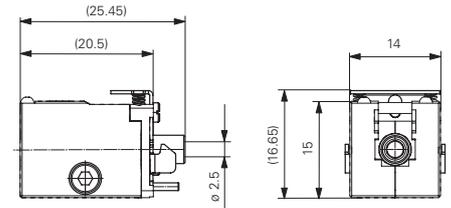
External parts: Metal  
Mating sleeve: None



ADAPTERS

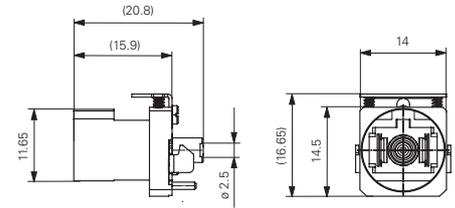
MAS E-2000®

External parts: Metal  
Mating sleeve: Zirconia



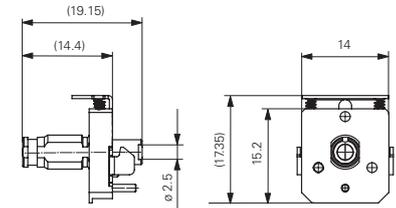
MAS SC

External parts: Metal/Plastic  
Mating sleeve: Zirconia



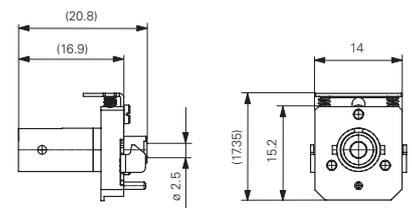
MAS DIN

External parts: Metal  
Mating sleeve: Zirconia



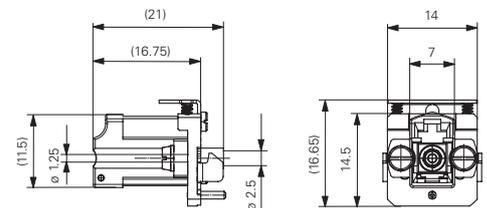
MAS ST™

External parts: Metal  
Mating sleeve: Zirconia



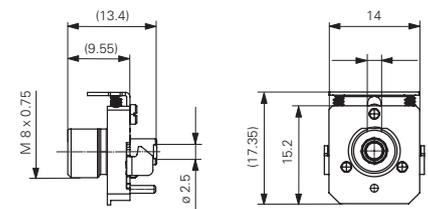
MAS LC (F-3000®)

External parts: Metal/Plastic  
Mating sleeve: Zirconia



MAS FC

External parts: Metal  
Mating sleeve: Zirconia  
Key: Narrow/Wide



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.

Other versions available upon request