

DIAMOND

Fiber Optic Components

CABLE ASSEMBLIES AND ADAPTERS

The MU incorporates the positive mechanical and optical performance features of the SC style connector in a high density small form factor (SFF) design. The miniature unit-coupling MU is currently recognized by the IEC International standard organization.

This fiber optic connector system features a compact connector housing and a $\varnothing 1.25$ mm diameter ferrule.

The MU is available as a Simplex or Duplex connector for both Single Mode (PC or APC) and Multimode applications.

Diamond, leveraging its experience in SFF connector design and manufacturing, has incorporated its unique ferrule design and proprietary active alignment process which has made their own E-2000™ & F-3000™ connectors recognized performance leaders. The end result is an MU connector with superior optical performance.

APPLICATIONS

- ▶ Fiber optic subscriber network transmission / switching equipment
- ▶ Optical MDF (Multi Distribution frames)
- ▶ CATV, LAN
- ▶ SONET/SDH, ATM and WDM communication systems
- ▶ Test equipment

The MU connector system presents the following features :

- ▶ High packing density
- ▶ Excellent optical performance (SM & MM)
- ▶ Wide range of applications
- ▶ Ease of operation (Push-pull)

STANDARDS

- ▶ IEC 61 754-6 "Fiber optic connector interfaces – Type MU connector family"
- ▶ TIA/EIA 604-17 "Fiber optic intermateability standard - Type MU"

AVAILABLE AS

- ▶ Terminated connector
- ▶ Connector set, (to be terminated with Diamond special equipment)

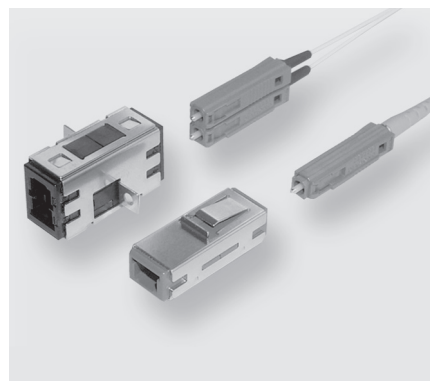
SPECIFICATIONS

	MULTIMODE 0° PC	SINGLE MODE 0° PC	SINGLE MODE 8° APC	UNITS	TEST CONDITIONS
Insertion Loss (IL)	typ. 0.15 max. 0.4	typ. 0.2 max. 0.4	typ 0.2 max. 0.4	dB	IEC 61300-3-4; $\lambda = 1300/1550\text{nm}$
Return Loss (RL)	typ. 40	min. 50	min. 70*	dB	IEC 61300-3-6; $\lambda = 1300/1550\text{nm}$
Repeatability of IL	max. ± 0.1			dB	IEC 61300-2-2; $\lambda = 1300/1550\text{nm}$
Service life	1000 mate/demate cycles				According to field experience
Operating temperature	-25/+70**			°C	

* Measured with high precision reflectometer
 ** May be further limited by cable specifications

MU Simplex & Duplex

SINGLE MODE PC/APC
 MULTIMODE PC



MU DUPLEX CONNECTOR TYPES AND DIMENSIONS

Connectors 900 μm - 2.1 mm boot style

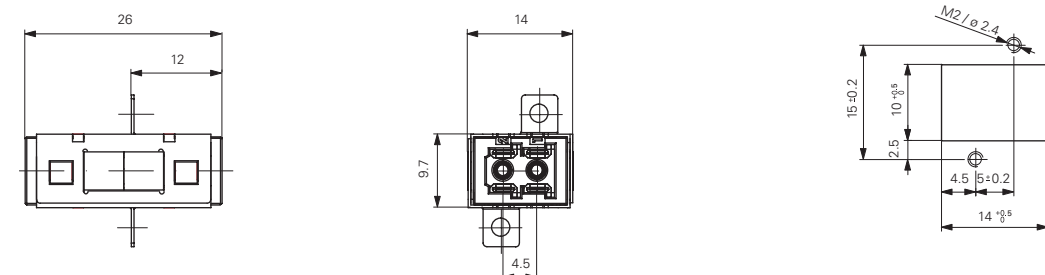
Available types: **MU Duplex PC**
MU Duplex APC

Ferrule material: Zirconia/copper-nickel alloy insert
 External parts: Plastic

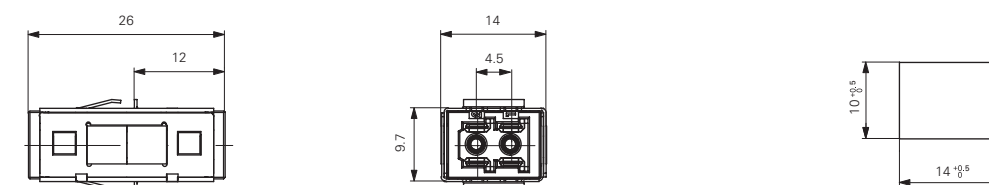


MU DUPLEX ADAPTER TYPES AND DIMENSIONS

Mating adapter with screw fixing clip



Mating adapter with quick fixing clip



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

www.diamond-fo.com

Specifications subject to change
 without notice

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