

Product Information

MULTIMODE COUPLER (MMC)



Features

- Low PDL
- Low Insertion Loss
- Excellent Uniformity
- High Directivity
- Highly Stable and Reliable

Applications

- Telecommunications
- Local Area Network (LAN)
- Passive Optical Network (PON)
- Cable TV
- Fiber sensors

Product Performance Characteristics

Parameters	Premium	A Grade
Wavelength	850 ± 40 and 1310 ± 40	
Uniformity (dB) (Max.) (CR: 50/50)	0.5	1
Directivity (dB) (Min.)	35	
Operating Temperature	- 40°C ~ 85°C	
Fiber type	62.5/125	

Special dimension upon request

Coupling Ratios /PDL/ Insertion Loss Chart

Coupling Ratio (%)	Premium	A Grade
	Max. Insertion Loss (dB)	Max. Insertion Loss (dB)
50/50	3.9/3.9	4.3/4.3
40/60	4.9/3.0	5.4/3.5
30/70	6.2/2.3	6.7/2.7
20/80	8.0/1.6	8.7/2.1
10/90	11.3/1.1	12.2/1.6
5/95	14.9/0.9	16.2/1.3

Above values are referenced without connectors

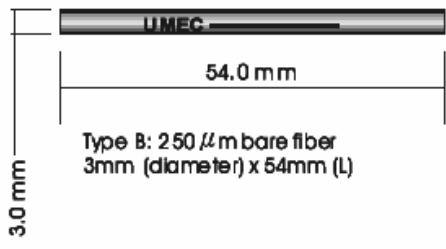
Mechanical Outline

Package type	Housing type	Dimension	Pigtail style
Type B	Steel tube	3mm(Ø) x 54mm (L)	250µm bare fiber
Type L	Steel tube	3mm(Ø) x 60mm (L)	900µm loose buffered fiber
Type R	Ruggedized plastic housing	100mm (L) x 10 mm (W) x 8 mm (H)	900µm loose buffered fiber
Type G	LGX compatible module	See below	Output port is adapter

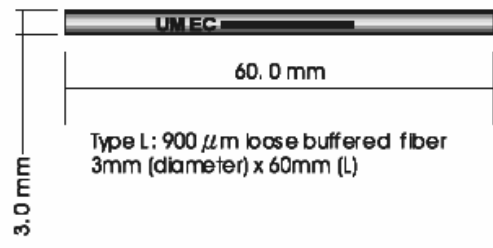
The dimension of type G package will depend on output port number, below LGX compatible housing is just for reference.

LGX drawing just for reference.

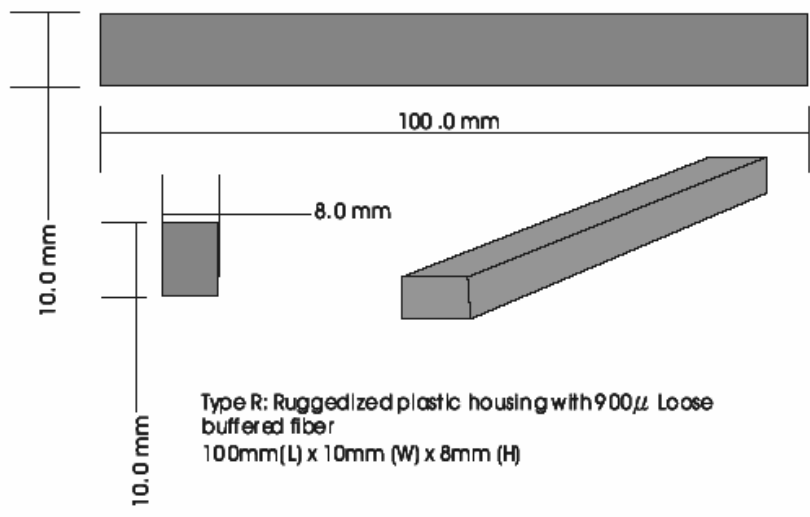
We also provide LGX compatible chassis, please see our chassis specification.



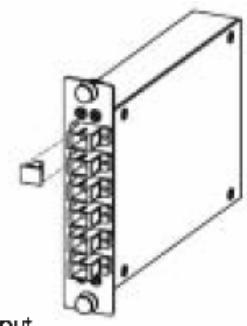
Type B: 250 μ m bare fiber
3mm (diameter) x 54mm (L)



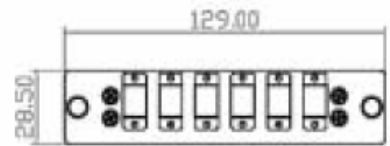
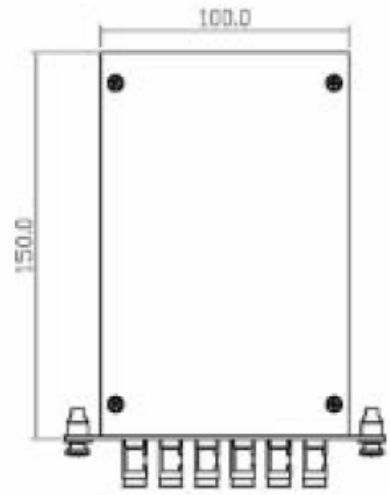
Type L: 900 μ m loose buffered fiber
3mm (diameter) x 60mm (L)



Type R: Ruggedized plastic housing with 900 μ Loose buffered fiber
100mm(L) x 10mm (W) x 8mm (H)

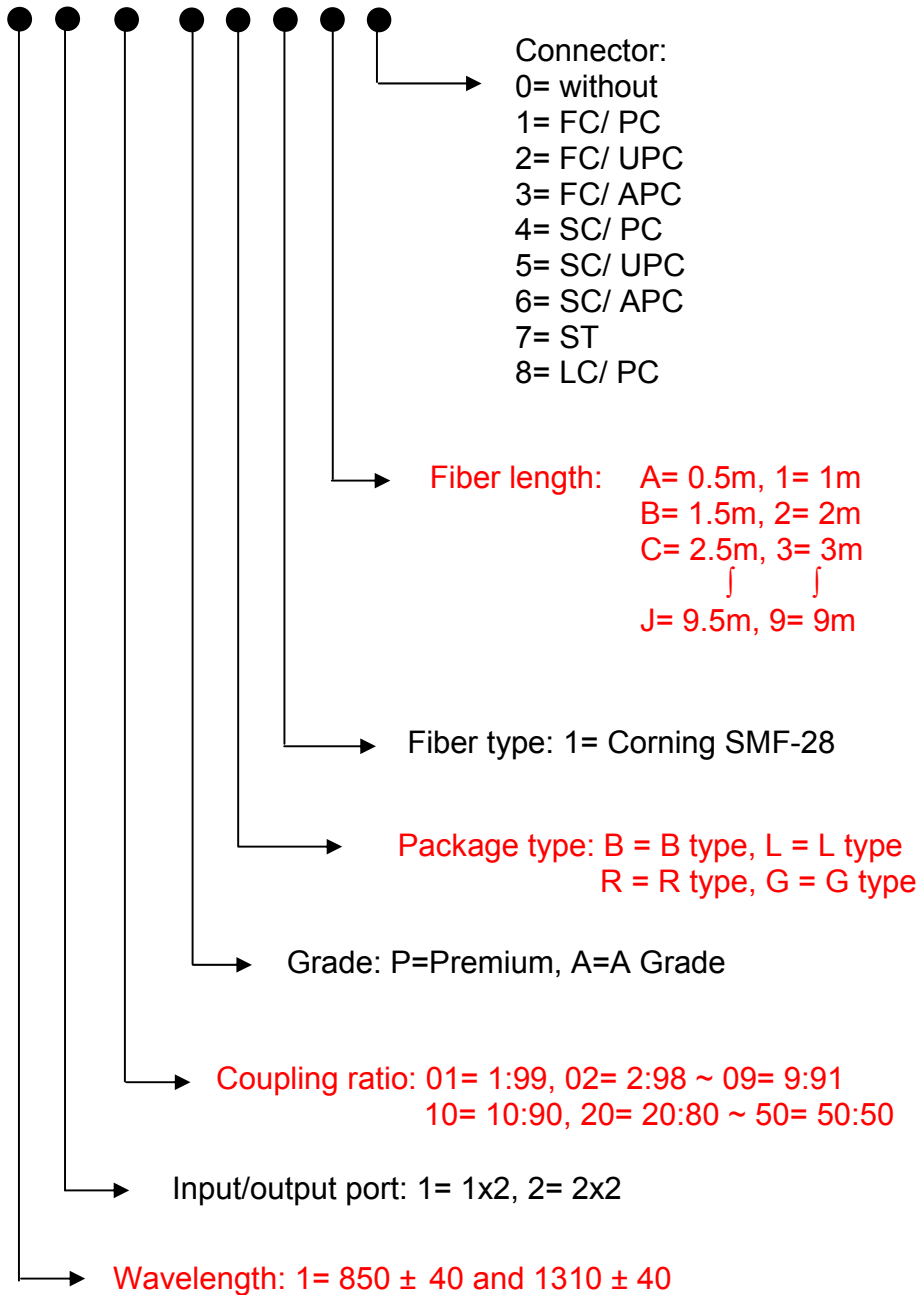


Type G: LGX compatible Housing with adapter output



Ordering information

MMC-X-X-XX-X-X-X-X-X-UM



Rev A 2006-04-04

RAYCORE Fiber Optic Solutions AB

Postal address:
PO. Box 2022
SE-131 02 Nacka - Stockholm
SWEDEN

Visiting address:
Vattenverksvägen 8
131 41 Nacka - Stockholm
SWEDEN

Contact details:
Phone: +46 (0)8 618 72 05
Fax: +46 (0)8 618 72 09
E-mail: sales@raycore-fos.com