

## Product Information

### ULTRA LOW PDL COUPLER (UPC)



#### Features

- Ultra 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 (nm)	1310± 40 or 1550± 40 or 1528~1568 or 1569~1610	
Uniformity (dB) (Max.) (CR:50/50)	0.6	0.10
Directivity (dB) (Min.)	55	
Operating Temperature	- 40°C ~ 85°C	
Package Dimension	3Ø x 54L	

Special dimension upon request

## Coupling Ratios/ PDL/ Insertion Loss Chart

Coupling ratio %	Premium		A Grade	
	Max. PDL (dB)	Max. I.L. (dB)	Max. PDL (dB)	Max. I.L. (dB)
50/50	0.05/0.05	3.4/3.4	0.07/0.07	3.6/3.6
40/60	0.1/0.05	4.4/2.5	0.1/0.06	4.8/2.8
30/70	0.1/0.05	5.7/1.8	0.1/0.05	6.1/2.0
20/80	0.1/0.05	7.5/1.1	0.1/0.05	8.0/1.3
10/90	0.1/0.05	10.8/0.6	0.1/0.05	12.0/0.8
5/95	0.12/0.05	14.6/0.4	0.12/0.05	15.0/0.5
1/99	0.12/0.05	21.5/0.2	0.12/0.05	22.0/0.3

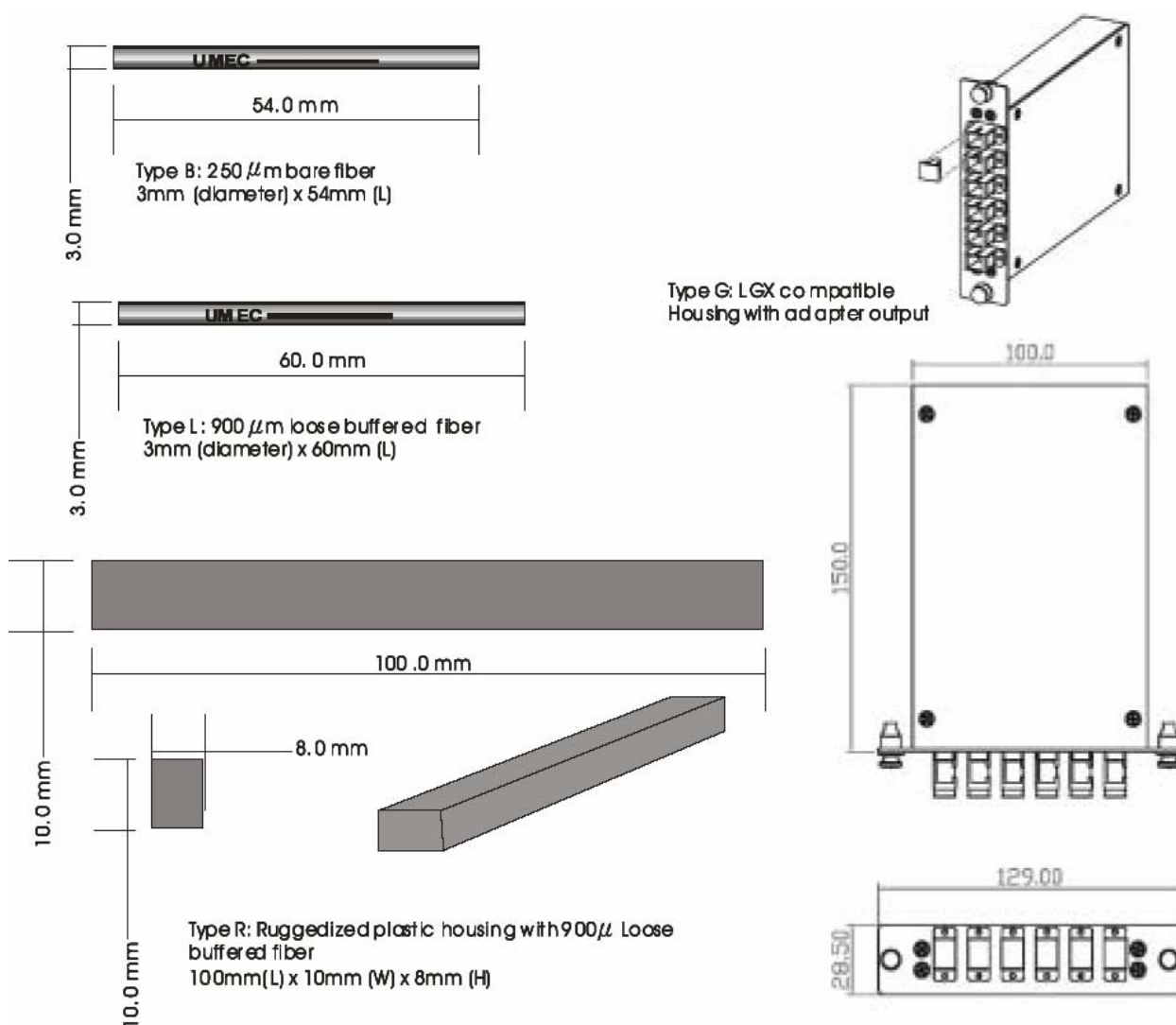
The above values are referenced without connectors.

## Mechanical Outline

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

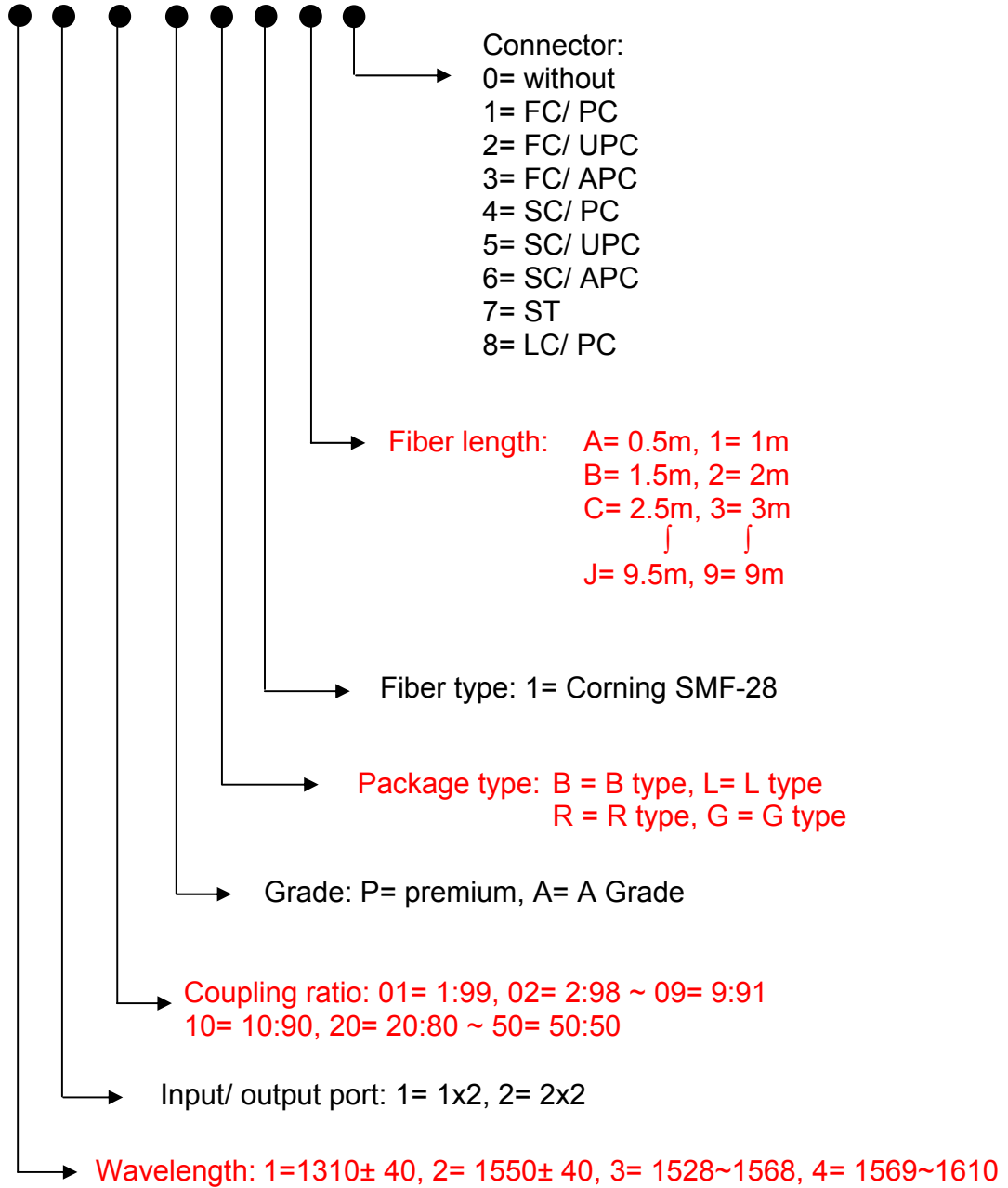
The dimension of type G package will depend on output port number, below LGX compatible housing is just for reference.

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



## Ordering information

### UPC-X-X-XX-X-X-X-X-X-UM



Rev A 2006-06-05

#### 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