

## Single Mode Fiber Optic Coupler

Devices



### APPLICATIONS

Optical networks

CATV

Test and measurement equipment

Fiber sensors

### FEATURES

All fiber construction

Bidirectional

Low loss

Low back reflection

Wideband

Environmentally stable

**LT ENGINEERING**

Pioneers Of Optical Fiber In Pakistan

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ISO 9001 Certified



# Single Mode Fiber Optic Coupler

Optical Fiber Couplers are reliable passive devices for splitting optical signal in a number of optical network applications. LT Engineering manufactures All-Fiber couplers from proven fused technology with variety of optical performance at different wavelengths to fulfill system designer's requirements. These compact devices provide low insertion loss, extremely low back reflection, low polarization dependence and stability over variety of environmental conditions. In house process expertise allows to have extremely tight control on the optical performance, quality and reliability. These devices are designed to meet Telcordia standards GR 1209 and GR 1221.

LTE offers a number of connector options with different housing dimensions. The housing dimension and optical performance can be tailored to meet customer's requirements.

SPECIFICATIONS		
	Grade A	Grade B
Port configuration	2 x 2 or 1 x 2	
Operating wavelength	1310 nm or 1550 nm	
Insertion loss	≤ 3.4 dB	≤ 3.8 dB
Excess loss	≤ 0.25 dB	≤ 0.4 dB
Coupling ratio	50 / 50 ± 5%	
Directivity	≥ 55 dB	
Operating temperature	-20 °C to +80 °C	
Packaging dimensions		
■ Standard for 250 μm fiber	Diameter = 3.0 mm, Length = 30 mm	
■ Ruggedized for 3.0 mm Simplex cable	Length = 95 mm, Height = 10 mm, Width = 12 mm	
■ Pigtails length	~ 1.0 meter each	

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