

**Optical Fiber Patch Cord**

**TECHNICAL DATA SHEET**

**LSZH Fiber Optic Patch Cord SM  
(G.657A1) 9/125 (SC-APC/SC-APC)  
Simplex (3.0mm)**



## **LSZH Fiber Optic Patch Cord SM (G.657A1) 9/125 (SC-APC /SC-APC) Simplex (3.0 mm)**

### **Product Description:**

The LSZH Fiber Optic Patch Cord Single Mode G.657.A1 (9/125  $\mu\text{m}$ ) SC-APC to SC-APC Simplex 3.0 mm is a high-performance optical cable designed for precise, low-loss data transmission in FTTH, telecom, and data center applications. It features angled SC-APC connectors that significantly reduce back reflection, making it ideal for sensitive optical systems such as GPON networks. The bend-insensitive G.657.A1 fiber ensures reliable performance even in tight installation environments, while the LSZH jacket provides enhanced safety for indoor use.



### **Features:**

- SC-APC connectors with 8° angled polish for minimal reflection
- G.657.A1 bend-insensitive fiber for tight routing
- LSZH jacket for enhanced fire safety in indoor environments
- Simplex design for single-channel transmission
- Durable 3.0 mm cable construction
- High compatibility with standard single-mode fiber networks
- Long-term stable and reliable optical performance

## Fiber Specifications:

Specification	Value
Fiber Type	Single Mode (SM)
Fiber Standard	ITU-T G.657.A1
Core / Cladding	9 / 125 $\mu\text{m}$
Cable Structure	Simplex (1 Fiber)
Operating Wavelength	1310 nm / 1550 nm
Attenuation @1310 nm	$\leq 0.35$ dB/km
Attenuation @1550 nm	$\leq 0.22$ dB/km
Bend Performance	Bend-insensitive
Compatibility	G.652.D compatible

## Applications:

- FTTH (Fiber to the Home) networks
- GPON / Passive Optical Networks (PON)
- Telecom infrastructure and backbone
- Data centers and high-speed optical links
- Optical Distribution Frames (ODF)



## Optical Performance:

- Insertion Loss:  $\leq 0.3$  dB
- Return Loss:  $\geq 60$  dB (APC)
- Excellent back reflection performance
- High stability and repeatability

**Note That:**

The connector is designed with two color markings on both ends for identification purposes: Green and white.