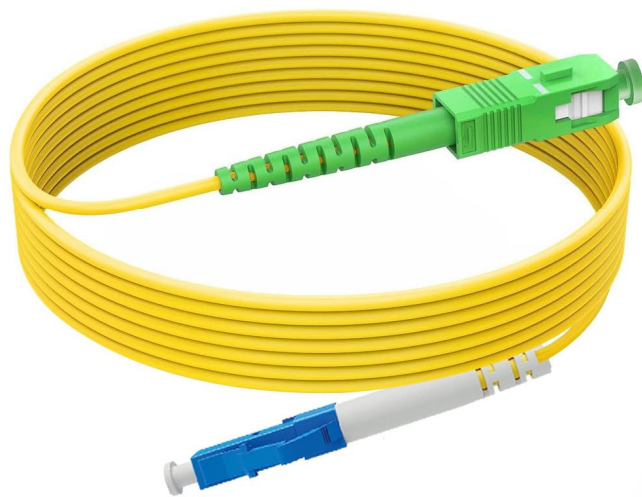


Optical Fiber Patch Cord

TECHNICAL DATA SHEET

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



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

Product Description:



The LSZH Fiber Optic Patch Cord Single Mode G.657.A1 (9/125 μm) SC-APC to LC-UPC Simplex 3.0 mm is a high-performance optical interconnect designed for reliable, low-loss transmission in modern fiber optic networks.

This hybrid patch cord combines an SC connector with APC (Angled Physical Contact) polishing and an LC connector with UPC (Ultra Physical Contact) polishing, enabling flexible connectivity between different network devices. The APC connector minimizes back reflection, while the LC connector provides compact size for high-density environments.

The G.657.A1 bend-insensitive fiber ensures stable performance even in tight routing conditions, and the LSZH jacket enhances safety for indoor installations.

Features:

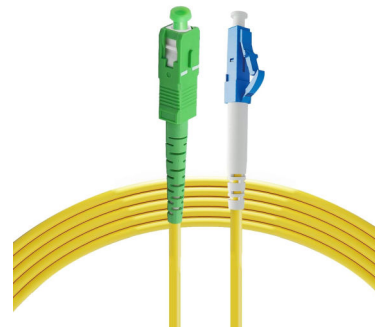
- Hybrid SC/APC to LC/UPC connectivity
- APC polishing reduces back reflection
- Compact LC connector for high-density installations
- G.657.A1 bend-insensitive fiber for tight routing
- LSZH jacket for enhanced fire safety
- Durable 3.0 mm cable structure
- High compatibility with standard SM networks

Fiber Specifications:

Parameter	Value
Fiber Type	Single Mode
Standard	ITU-T G.657.A1
Core Diameter	9 μm
Cladding Diameter	125 μm
Operating Wavelength	1310 nm / 1550 nm
Attenuation @1310 nm	≤ 0.35 dB/km
Attenuation @1550 nm	≤ 0.22 dB/km
Mode Field Diameter	$\sim 8.6\text{--}9.2$ μm
Numerical Aperture	~ 0.13
Bend Performance	Bend-insensitive
Compatibility	G.652.D compatible

Applications:

- FTTH (Fiber to the Home) networks
- GPON / EPON passive optical networks
- Telecom backbone infrastructure
- Data centers and high-density environments
- Optical Distribution Frames (ODF)
- Patch panels and fiber cabinets



Optical Performance:

Parameter	Value
Insertion Loss	≤ 0.3 dB
Return Loss	≥ 60 dB (APC) / ≥ 50 dB (UPC)
Repeatability	≤ 0.1 dB
Durability	≥ 1000 mating cycles
Signal Stability	High

Environmental Conditions

- Operating Temperature: -40°C to $+85^{\circ}\text{C}$
- Storage Temperature: -45°C to $+85^{\circ}\text{C}$
- Suitable for indoor telecom and data center environments