

**OPTICAL FIBER ADAPTER**

**TECHNICAL DATA SHEET**

**LC Adapter SM-DX-APC 1.25 mm SMF (Green Color)**



## LC Adapter SM-DX-APC 1.25 mm SMF (Green Color)

### Product Description

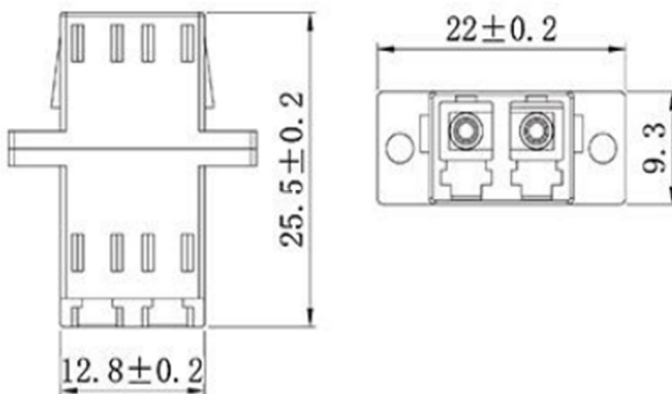
Fiber Light LC adapters in different variations. LC is the connector of choice for many network operators because of its compact size and reliability of connecting quality. There are flanged and flangeless versions available with many colors' options. Adapters meet the international standards IEC 61754-20/TIA 604-10-A and are naturally RoHS/REACH compliant. LC adapters include integrated stainless-steel clips for snap mounting on panels. LC style adapters are used in high density applications and feature a quick plug in installation.



### Key Features

- LC Duplex (DX) configuration
- APC polish (8° angled end face)
- Single Mode Fiber (SMF 9/125μm)
- 1.25 mm ceramic ferrule
- Zirconia alignment sleeve
- Flanged or snap-in mounting options
- Green color (APC identification)

### Basic Construction



## **Note: All units of measurement in millimeter**

### **Applications**

- Fiber patch panels
- ODF (Optical Distribution Frame)
- FTTH / FTTX networks
- Data centers & LAN
- Telecom networks
- Test and measurement equipment

### **Benefits**

- Low insertion loss ensures high signal quality
- Compact LC design supports high-density installations
- Flanged body provides secure and stable mounting
- Easy plug-and-play installation (no special tools required)
- High precision ceramic sleeve for accurate fiber alignment
- Reliable performance over repeated mating cycles
- Duplex design keeps transmit and receive fibers organized
- Reduces cable congestion in patch panels and racks
- Compatible with standard LC single mode connectors (OS1/OS2)
- Durable construction for long-term use



## Technical Specifications

Parameter	Specification
Connector Type	LC Duplex (DX)
Fiber Type	Single Mode (SMF 9/125 $\mu$ m)
Ferrule Size	1.25 mm (LC standard)
Polish Type	APC (8° Angled Physical Contact)
Insertion Loss	$\leq 0.2$ dB (typical), $\leq 0.3$ dB max
Return Loss	$\geq 60$ dB (APC)
Alignment Sleeve	Zirconia ceramic
Mating Durability	$\geq 1000$ cycles
Repeatability	$\leq 0.2$ dB variation
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Humidity	Up to 95%
Compliance Standards	IEC 61754-20, TIA/EIA 604-10-A
RoHS Compliance	Yes
Color	Green (APC identification)

## Environmental Specifications

Parameter	Specification
Temperature Cycling	-40°C to +75°C (40 cycles, $\leq 0.2$ dB variation)
High Temperature Resistance	70°C for 96 hours ( $\leq 0.4$ dB variation)
Damp Heat Resistance	40°C at 93% RH for 96 hours ( $\leq 0.4$ dB variation)
Vibration Resistance	10–55 Hz, $\leq 0.2$ dB variation
Mating Durability (Environmental)	$\geq 500$ cycles with stable performance
Retention Force	2.0 – 5.9 N
Flammability Rating	UL94 V-0 (flame-retardant material)