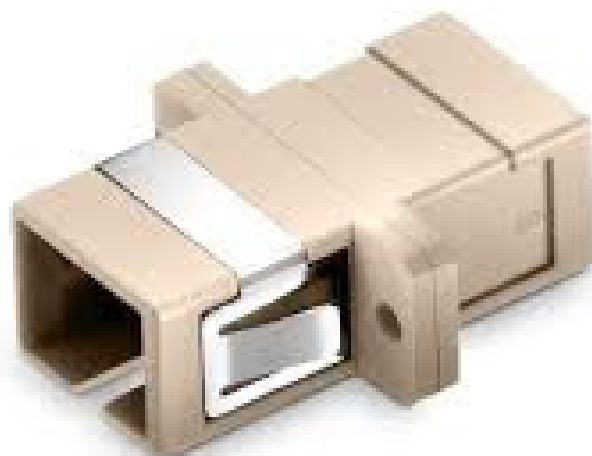


Optical Fiber Adapter

TECHNICAL DATA SHEET

SC Adapter MM-OM2-SX-UPC 2.5mm MMF



SC Adapter MM-OM2-SX-UPC 2.5mm

Product Description:

The SC Adapter MM-OM2-SX-UPC 2.5 mm Multimode Fiber (MMF) is a precision fiber optic adapter designed to connect two SC/UPC simplex multimode fiber optic connectors with low insertion loss and reliable optical performance.

It features a high-precision zirconia ceramic alignment sleeve that ensures accurate fiber alignment and stable signal transmission. The adapter is optimized for OM2 multimode fiber applications and is widely used in LAN systems, data centers, telecom rooms, patch panels, and optical distribution systems.



Features:

- SC/UPC simplex multimode adapter
- Precision zirconia ceramic alignment sleeve
- Low insertion loss and stable optical performance
- High durability and repeatability
- Snap-in installation for patch panels and ODFs
- Compact lightweight design
- Suitable for OM2 multimode fiber systems
- Reliable long-term connection stability

Applications:

- LAN (Local Area Networks)
- Data centers and server rooms
- Fiber patch panels and ODF systems
- Telecom and communication networks
- Enterprise structured cabling systems
- Optical distribution systems

Benefits:

- Ensures accurate fiber core alignment
- Reduces signal attenuation and optical loss
- Improves network efficiency and reliability
- Supports stable multimode signal transmission
- Easy installation and maintenance
- Suitable for high-density fiber environments
- Durable construction for long operational life
- Ideal for LAN, telecom, and data center applications



Technical Specifications:

Parameter	Specification
Connector Type	SC Simplex (SX)
Fiber Type	Multimode OM2 (50/125 μm)
Ferrule Size	2.5 mm (SC Standard)
Polish Type	UPC (Ultra Physical Contact)
Insertion Loss	≤ 0.2 dB (Typical), ≤ 0.3 dB Max
Return Loss	≥ 35 dB
Alignment Sleeve	Zirconia Ceramic
Mating Durability	≥ 1000 Cycles
Repeatability	≤ 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 61754-4, TIA/EIA 604-3
RoHS Compliance	Yes
Color	Beige (Multimode Identification)

Environmental Specifications:

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Relative Humidity	Up to 95%
Flame Rating	UL94-V0 (Optional)
Vibration Resistance	Stable Optical Performance Under Vibration
Shock Resistance	High Mechanical Durability
Dust Protection	With Dust Caps
Corrosion Resistance	Resistant to Corrosion and Moisture
Indoor / Outdoor Use	Primarily Indoor Applications
RoHS Compliance	Yes