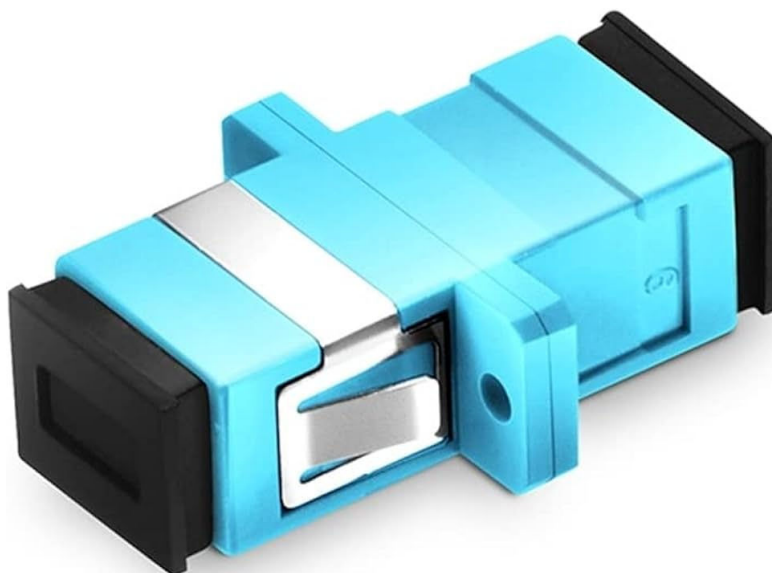


## Optical Fiber Adapter

### TECHNICAL DATA SHEET

### SC Adapter MM-OM3-SX-UPC 2.5mm



## **SC Adapter MM-OM3-SX-UPC 2.5mm**

### **Product Description:**

The SC Adapter MM-OM3-SX-UPC 2.5 mm Multimode Fiber (MMF) is a high-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 precision zirconia ceramic alignment sleeve that ensures accurate fiber alignment and stable signal transmission. Optimized for OM3 laser-optimized multimode fiber applications, this adapter is ideal for high-speed data transmission in data centers, enterprise networks, telecom rooms, and structured cabling systems.

### **Features:**

- SC/UPC simplex OM3 multimode adapter
- Precision zirconia ceramic alignment sleeve
- Low insertion loss and stable optical performance
- Supports high-speed optical transmission
- Snap-in installation for patch panels and ODFs
- High durability and repeatability
- Compact lightweight design
- Optimized for laser-optimized OM3 fiber systems

## **Applications:**

- Data centers and cloud infrastructure
- 10G Ethernet networks
- Storage Area Networks (SAN)
- Telecom and communication systems
- Fiber patch panels and ODF systems

## **Benefits:**

- Ensures precise fiber core alignment
- Minimizes optical signal loss
- Improves network reliability and efficiency
- Supports high-bandwidth transmission applications
- Easy installation and maintenance
- Suitable for high-density fiber environments
- Long operational lifespan



## Technical Specifications:

Parameter	Specification
Connector Type	SC Simplex (SX)
Fiber Type	Multimode OM3 (50/125 $\mu\text{m}$ )
Ferrule Size	2.5 mm (SC Standard)
Polish Type	UPC (Ultra Physical Contact)
Insertion Loss	$\leq 0.2$ dB (Typical), $\leq 0.3$ dB Max
Return Loss	$\geq 35$ dB
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 61754-4, TIA/EIA 604-3
RoHS Compliance	Yes
Color	Aqua (OM3 Identification)

**Environmental Specifications:**

<b>Parameter</b>	<b>Specification</b>
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