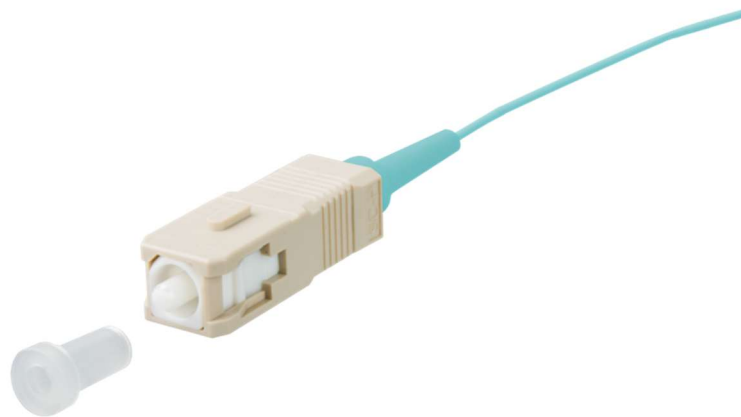


Optical Fiber Pigtail

TECHNICAL DATA SHEET

Fiber Pigtail SC UPC to Underterminated Simplex OM3 LSZH



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Product Description:

The Fiber Optic Pigtail SC/UPC to Unterminated is a factory-terminated simplex fiber assembly designed for high-performance fiber splicing and termination applications. It features a precision-polished SC/UPC connector on one end and an unterminated fiber on the other, allowing easy fusion splicing into optical distribution frames (ODFs), fiber termination boxes (FTBs), patch panels, and LAN/data center networks.



Manufactured with OM3 multimode (50/125 μm) laser-optimized fiber and a Low Smoke Zero Halogen (LSZH) jacket, this pigtail delivers excellent optical performance for high-speed Ethernet and storage area network (SAN) applications.

Applications:

- Fiber Optic Distribution Frames (ODF)
- Fiber Termination Boxes (FTB)
- Data Centers
- Enterprise LAN Networks
- Storage Area Networks (SAN)
- Gigabit Ethernet
- 10G/40G/100G Ethernet Networks
- Telecommunications Networks

Technical Specifications:

Parameter	Value
Fiber Type	OM3 (50/125 μm)
Connector Type	SC/UPC
Polish Type	UPC
Insertion Loss	≤ 0.30 dB (Typical ≤ 0.20 dB)
Return Loss	≥ 35 dB
Operating Wavelength	850 / 1300 nm
Repeatability	≤ 0.20 dB
Interchangeability	≤ 0.20 dB
Durability	≤ 0.20 dB change after 500 matings

Environmental Performance

Test Item	Condition	Requirement
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	
High Temperature	+85°C, 96 Hours	$\Delta\text{IL} \leq 0.2$ dB
Low Temperature	-40°C, 96 Hours	$\Delta\text{IL} \leq 0.2$ dB
Thermal Cycling	-40°C to +85°C	$\Delta\text{IL} \leq 0.2$ dB
Humidity	95% RH, 96 Hours	Stable Performance

Mechanical Specifications

Item	Specification
Cable Construction	Simplex
Cable Diameter	0.9 mm (Standard)
Fiber Type	OM3 (50/125 μm)
Connector Ferrule	Zirconia Ceramic
Jacket Material	LSZH
Jacket Color	Aqua
Boot Color	Blue
Tensile Strength	$\geq 10 \text{ N}$

Product Features

- SC/UPC connector on one end, unterminated fiber on the other
- OM3 Multimode (50/125 μm) laser-optimized fiber
- Simplex construction
- Low insertion loss and high return loss
- High-precision zirconia ceramic ferrule
- LSZH (Low Smoke Zero Halogen) jacket
- Aqua-colored cable for OM3 identification
- Factory polished and 100% optically tested
- Excellent mechanical durability
- RoHS compliant
- IEC and Telcordia compliant