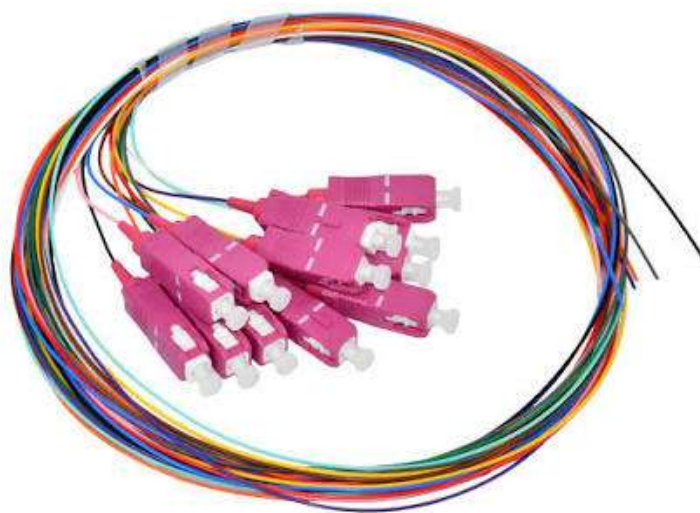


Optical Fiber Pigtail

TECHNICAL DATA SHEET

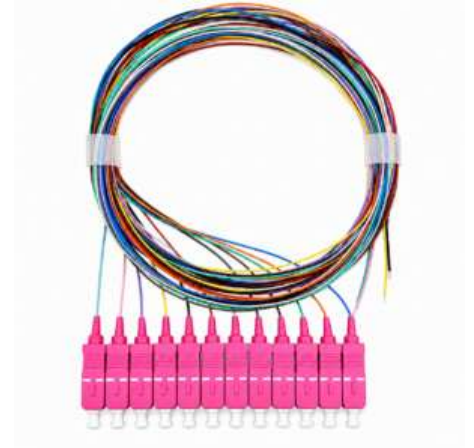
SC Multi Mode Fiber Optic Pigtail UPC OM4 ITU-T G.651 12 Fiber



SC Multi Mode Fiber Optic Pigtail UPC OM4 ITU-T G.651 **12 Fiber**

Product Description

The Fiber Optic Pigtail SC/UPC to Unterminated is a factory-terminated 12-fiber optical pigtail designed for high-density fiber termination and fusion splicing applications. It features SC/UPC connectors on one end and unterminated fibers on the opposite end, enabling efficient installation in Optical Distribution Frames (ODFs), patch panels, fiber termination boxes, and data center cabling systems.



Manufactured with OM4 laser-optimized multimode (50/125 μm) optical fiber compliant with ITU-T G.651.1, and protected by a Low Smoke Zero Halogen (LSZH) jacket, the pigtail delivers excellent optical performance for high-speed Ethernet and backbone applications.

Product Features

- SC/UPC connectors on one end, unterminated fibers on the other
- 12-fiber construction
- OM4 laser-optimized multimode fiber (50/125 μm)
- Compliant with **ITU-T G.651.1**
- Low insertion loss and excellent return loss
- High-precision zirconia ceramic ferrules
- LSZH (Low Smoke Zero Halogen) jacket
- Factory polished and 100% optically tested

Applications

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

Product Parameters

Item	Specification
Connector A	SC/UPC
Connector B	Unterminated
Fiber Count	12 Fibers
Fiber Type	OM4 (50/125 μ m)
Fiber Standard	ITU-T G.651.1
Cable Construction	12-Fiber
Jacket Material	LSZH

Optical Specifications

Parameter	Value
Fiber Type	OM4 (50/125 μm)
Fiber Standard	ITU-T G.651.1
Connector Type	SC/UPC
Polish Type	UPC
Operating Wavelength	850 / 1300 nm
Insertion Loss	≤ 0.30 dB (Typical ≤ 0.20 dB)
Return Loss	≥ 35 dB
Repeatability	≤ 0.20 dB
Interchangeability	≤ 0.20 dB
Durability	≤ 0.20 dB change after 500 mating cycles

Environmental Performance

Test Item	Condition	Requirement
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 Reliability

Test Item	Requirement
Mating Durability	≥ 500 Cycles
Tensile Strength	≥ 10 N
Vibration Resistance	$\Delta IL \leq 0.2$ dB
Shock Resistance	$\Delta IL \leq 0.2$ dB
Twist Test	Meets IEC Requirements