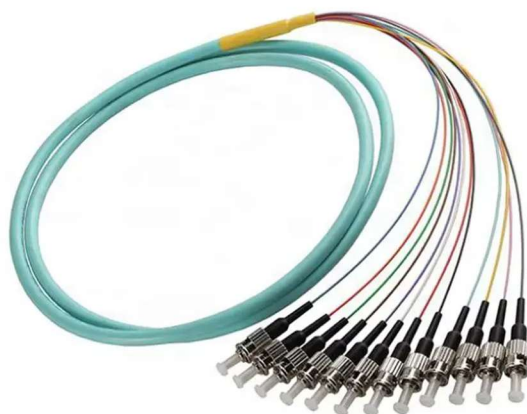


Optical Fiber Pigtail

TECHNICAL DATA SHEET

FC Multi Mode Fiber Optic Pigtail UPC OM2– ITU-T G.651 , 12 Fiber



FC Multi Mode Fiber Optic Pigtail UPC OM2– ITU-T G.651, 12 Fiber

Product Description

The Fiber Optic Pigtail FC/UPC to Unterminated is a factory-terminated 12-fiber optical pigtail designed for high-density fiber termination and fusion splicing applications. It features FC/UPC connectors on one end and unterminated fibers on the opposite end, allowing seamless integration into Optical Distribution Frames (ODFs), patch panels, fiber termination boxes, and enterprise optical networks.



Manufactured with OM2 multimode (50/125 μm) optical fiber compliant with ITU-T G.651.1, and protected by a Low Smoke Zero Halogen (LSZH) jacket, this pigtail provides reliable optical performance for LAN, campus, industrial, and short-distance communication networks.

Product Features

- FC/UPC connectors on one end, unterminated fibers on the other
- 12-fiber construction
- OM2 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
- Excellent mechanical durability and reliability
- RoHS compliant

Applications

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

Product Parameters

Item	Specification
Connector A	FC/UPC
Connector B	Unterminated
Fiber Count	12 Fibers
Fiber Type	OM2 (50/125 μ m)
Fiber Standard	ITU-T G.651.1
Cable Construction	12-Fiber
Jacket Material	LSZH

Optical Specifications

Parameter	Value
Fiber Type	OM2 (50/125 μm)
Fiber Standard	ITU-T G.651.1
Connector Type	FC/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