

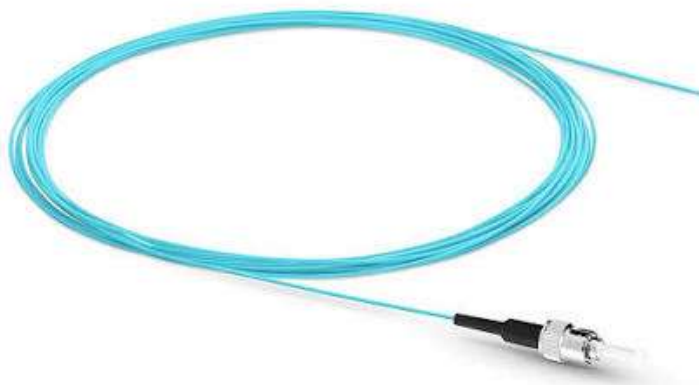


PN: FLOFPTSTG7101

Optical Fiber Pigtail

TECHNICAL DATA SHEET

**Fiber Pigtail ST UPC to Underminated
Simplex OM3 LSZH**



Fiber Pigtail ST UPC to Unterminated Simplex OM3 **LSZH**

Product Description

The Fiber Optic Pigtail ST/UPC to Unterminated is a factory-terminated simplex fiber assembly designed for high-performance fiber termination and fusion splicing applications. It features a precision-polished ST/UPC connector on one end and an unterminated fiber on the other, enabling quick and reliable installation in Optical Distribution Frames (ODFs), fiber termination boxes (FTBs), patch panels, and enterprise optical networks.

Manufactured with OM3 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, this pigtail delivers excellent optical performance for Gigabit Ethernet, 10 Gigabit Ethernet, storage area networks (SAN), and data center applications.

Product Features

- ST/UPC connector on one end, unterminated fiber on the other
- Simplex construction
- OM3 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 ferrule
- LSZH (Low Smoke Zero Halogen) jacket
- Factory polished and 100% optically tested
- Excellent mechanical durability and reliability
- RoHS compliant
- IEC and Telcordia compliant

Applications

- FTTH (Fiber to the Home)
- GPON / EPON Networks
- Optical Distribution Frames (ODF)
- Fiber Termination Boxes (FTB)
- CATV Networks
- Telecommunications Networks
- Optical Access Networks
- Passive Optical Networks (PON)

Product Parameters

Item	Specification
Connector A	ST/UPC
Connector B	Unterminated
Fiber Type	OM3 (50/125 μm)
Fiber Standard	ITU-T G.651.1
Cable Construction	Simplex
Jacket Material	LSZH

Optical Specifications

Parameter	Value
Fiber Type	OM3 (50/125 μm)
Fiber Standard	ITU-T G.651.1
Connector Type	ST/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

Mechanical Specifications

Item	Specification
Cable Construction	Simplex
Cable Diameter	0.9 mm
Fiber Type	OM3 (50/125 μ m)
Connector Ferrule	Zirconia Ceramic
Jacket Material	LSZH
Operating Temperature	-40°C to +85°C

Environmental Performance

Test Item	Condition	Requirement
High Temperature	+85°C, 96 Hours	$\Delta IL \leq 0.2$ dB
Low Temperature	-40°C, 96 Hours	$\Delta IL \leq 0.2$ dB
Thermal Cycling	-40°C to +85°C	$\Delta IL \leq 0.2$ 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