

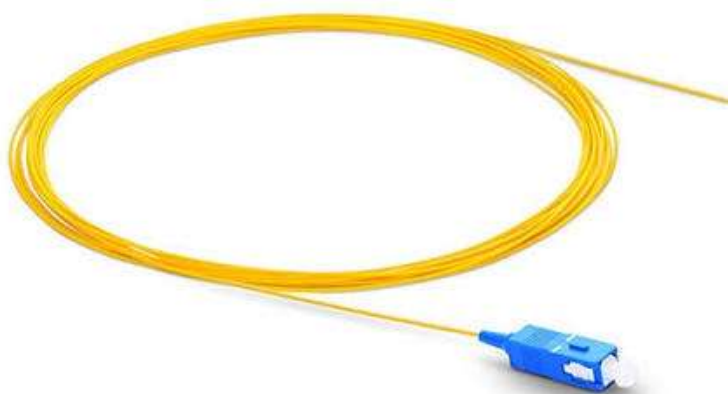


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Optical Fiber Pigtail

TECHNICAL DATA SHEET

**Fiber Pigtail SC UPC to Unterminated
Simplex OS2 LSZH**



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Product Description

The Single-mode OS2 Simplex Fiber Optic Pigtail features a factory-terminated **LC/UPC connector** on one end and an **untterminated blunt cut** on the other. Designed for high-performance optical networks, the 900 µm tight buffer simplifies stripping and prepping for fast fusion or mechanical splicing inside fiber patch panels, splice trays, or optical distribution frames (ODF).

Product Features

- **Premium Zirconia Ferrule:** The LC connector is built with a high-quality ceramic ferrule to maintain optimal physical core contact, minimizing signal degradation.
- **LSZH Safety Compliance:** The Low Smoke Zero Halogen jacket minimizes toxic and corrosive gas emissions during combustion, ensuring safety in enclosed, high-density server environments.
- **Easy-Strip Buffer:** Tight-buffered coating strips cleanly without nicking the underlying glass, reducing splicing prep time.
- **OS2 Compatibility:** Fully backward compatible with legacy standard single-mode systems, built on low-water-peak fiber to guarantee reliable performance across the entire E-band.

Applications

- Optical Distribution Frames (ODF)
- Fiber Termination Boxes (FTB)
- Enterprise LAN Networks
- Industrial Ethernet

- Campus Networks
- Patch Panels
- Telecommunications Networks
- Optical Communication Systems

Product Parameters

Parameter	Specification	Test Condition
Insertion Loss (IL)	≤ 0.20 dB (Typ) / ≤ 0.30 dB (Max)	IEC 61300-3-4
Return Loss (RL)	≥ 50 dB	IEC 61300-3-6
Operating Wavelengths	1310 nm, 1550 nm, and 1625 nm	Standard transmission SM
Maximum Attenuation	≤ 0.40 dB/km @ 1310 nm ≤ 0.30 dB/km @ 1550 nm	ITU-T G.652.D

Mechanical Performance

Parameter	Specification	TestDescription / Standard
Retention Strength	≥ 90 N (for connector) ≥ 5 N (for 900 μ m buffer)	IEC 61300-2-4 (Load applied at 0° and 90°)
Mating Durability	≤ 0.20 dB change max	IEC 61300-2-2 (500 matings clean)
Minimum Bend Radius	Static: 30 mm Dynamic: 15 mm	Standard installation limits
Vibration	≤ 0.10 dB change max	IEC 61300-2-1 (10 to 55 Hz, 1.5 mm amplitude)

Environmental Performance

Parameter	Specification	Test Standard
Operating Temperature	-40°C to +75°C	IEC 61300-2-22
Storage Temperature	-40°C to +85°C	Standard transit limits
Humidity Resistance	≤ 0.20 dB change max	IEC 61300-2-46 (93% RH @ 40°C for 96 hours)
Material Toxicity	Zero Halogen, Low Smoke emission	IEC 60754-1, IEC 60754-2, IEC 61034