

Article Overview

LC multimode pigtails are typically 900 um tight-buffered fibers with LC UPC connectors, low insertion loss, and high return loss, suitable for splicing and high-density network applications.

Fiber and Connector Details

LC multimode pigtails are available in OM3 and OM4 multimode fibers with a 50/125 um core/cladding configuration . They are terminated on one end with a high-grade LC UPC connector, while the other end is open for fusion or mechanical splicing . The connectors are designed for precision alignment to ensure minimal signal loss and stable connections .

Cable Construction

The fiber is typically 900 um tight-buffered, providing flexibility and protection for indoor installations . The pigtail cable diameter is usually 0.9 mm, which is ideal for high-density splice applications in patch panels, ODFs, and distribution boxes . Jackets can be LSZH (Low Smoke Zero Halogen) for safety in indoor environments .

Optical Performance

- o Insertion Loss: ≤ 0.25 dB for standard multimode, ≤ 0.15 dB for low-loss variants .
- o Return Loss: > 26 dB for multimode LC UPC connectors .
- o Durability: Connector mating cycles exceed 500 matings .
- o Pull Force: 5 N $\pm$ 0.5 N per IEC 61300-2-44 . These specifications ensure minimal attenuation, reliable data transmission, and low reflection, which are critical for high-speed networks .

Applications

LC multimode pigtails are widely used in:

- o Data centers and LAN/WAN networks
- o FTTH/FTTX deployments
- o CATV, PON, WDM/DWDM systems
- o Fiber distribution frames, subscriber sockets, and patch panels

Packaging and Traceability

Pigtails are typically individually packaged with part numbers, descriptions, optical performance data, and



LC Multimode Pigtail Specifications

barcodes or QR codes for traceability . Each pigtail may include a flag label indicating fiber type and serial number, linking to factory test data.

Lengths and Variants

Common lengths range from 1 m to 5 m, with options for simplex, duplex, or quad configurations . Custom lengths and connector types are often available as make-to-order products . These specifications make LC multimode pigtails a reliable and flexible solution for high-performance fiber optic networks.

Pigtail kits shall be available with 900-micron tight buffer LSZH coating and 250-micron coated fiber. Pigtail kits shall be individually

Pigtails come in many variations for fibers, cables and connectors. For fiber, it can be Singlemode or Multimode (50um, 62.5um,

FS.com - HPC, Data Center, Enterprise, Telecom

6536880 Fiber Optic Pigtail, Singlemode, LC/UPC to Stub, 0.9 mm Semi-Tight, white

Pigtails are used for non-permanent connections in patch panels, transmission equipment etc. Factory assembled pigtails allow for

This LC pigtail is a multimode cable with high-grade LC UPC fiber optic connector on one end, another end unterminated. This series

OPTICO Standard Pigtail Datasheet Ideal for CATV, FTTH/FTTX, telecommunication networks, premise installations, data

GR-20-CORE Generic Requirements for Optical Fiber and Optical Fiber Cable

OPTICAL FIBER COMPONENTS - PIGTAILS D-Link offers quality pigtails which are single ended with connectors. D-Link pigtails

Introduction This article is a selection guide for Fiber patch cords and pigtails, which systematically introduces the

Confused about fiber optic pigtails--which connector type, which polish, fusion or

LC Multimode Fibre Pigtails Fibre Pigtails with LC connectors with OM1, OM2, OM3 and OM4 options In

LC Multimode Pigtail Specifications

Stock Reference: 005-102

Core Patch Cords and Pigtails Cable assemblies are a basic component for all network infrastructure projects. Corning's

Superior Simplex OM3 Multimode LC/SC/FC/ST/LSH Fiber Optic Pigtail Fiber optic pigtails are designed to support fusion and

ShowMeCables offers a wide variety of fiber optic pigtails with LC, LC-UPC, SC, SC-UPC and ST connector types and in lengths of 1

With its ultra-compact LC connector (50% smaller than SC/ST), this multimode solution maximizes rack

Web: <https://www.kremgroup.co.za>

