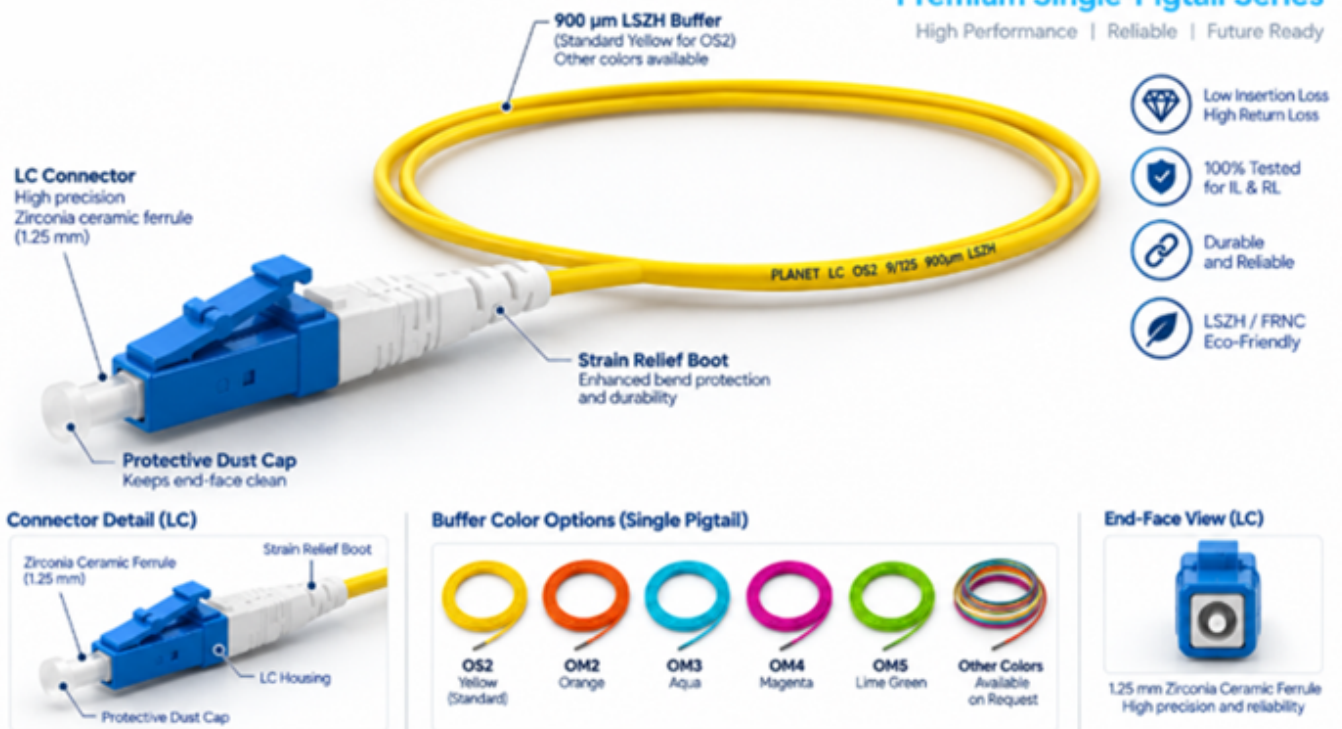


CATEGORY Single Fiber Pigtail	CONNECTOR FAMILY LC / UPC / APC	BUFFER 900 µm LSZH / FRNC
---	---	-------------------------------------

PLANET LC Single Fiber Optic Pigtails are designed for high-performance fusion-splice termination in ODFs, patch panels, FTTH, data centers and telecom networks. The premium configuration uses precision LC connectors, zirconia ceramic ferrules and bend-insensitive OS2 single-mode fiber, with multimode OM2 / OM3 / OM4 variants.

LC Fiber Optic Pigtail Premium Single-Pigtail Series

High Performance | Reliable | Future Ready



KEY FEATURES

- Premium low-loss LC/UPC and LC/APC terminations
- OS2 G.657.A1 bend-insensitive fiber, compatible with G.652.D
- Precision 1.25 mm zirconia ceramic ferrule
- 900 µm LSZH / FRNC tight-buffered construction
- 100% factory-tested for insertion loss and return loss
- Standard fiber-type colors plus custom buffer colors on request
- OM2, OM3 and OM4 multimode versions; OM5 on request

APPLICATIONS

- Optical distribution frames (ODF)
- Patch panels and fiber enclosures
- FTTH / FTTx access networks
- Data centers and enterprise LAN
- Telecom rooms and equipment interconnection
- Fusion-splice termination and testing systems

Parameter	Single-mode UPC	Single-mode APC	Multimode UPC
Fiber category	OS2 - G.657.A1 / G.652.D	OS2 - G.657.A1 / G.652.D	OM2 / OM3 / OM4
Connector interface	LC/UPC	LC/APC	LC/UPC
Ferrule	1.25 mm zirconia ceramic	1.25 mm zirconia ceramic	1.25 mm zirconia ceramic
Insertion Loss, max.	≤ 0.20 dB	≤ 0.25 dB	≤ 0.20 dB
Return Loss, min.	≥ 50 dB	≥ 60 dB	≥ 40 dB
Interchangeability	≤ 0.20 dB change	≤ 0.20 dB change	≤ 0.20 dB change
Vibration	≤ 0.20 dB change	≤ 0.20 dB change	≤ 0.20 dB change
Durability	1000 mating cycles; ΔIL ≤ 0.20 dB	1000 mating cycles; ΔIL ≤ 0.20 dB	1000 mating cycles; ΔIL ≤ 0.20 dB
Buffer diameter	900 μm nominal	900 μm nominal	900 μm nominal
Buffer material	LSZH / FRNC	LSZH / FRNC	LSZH / FRNC
Operating temperature	-40°C to +75°C	-40°C to +75°C	-40°C to +75°C
Storage temperature	-45°C to +85°C	-45°C to +85°C	-45°C to +85°C
Min. bend radius	20 mm installation / 10 mm operation	20 mm installation / 10 mm operation	20 mm installation / 10 mm operation
Standard length	1.5 m; other lengths on request	1.5 m; other lengths on request	1.5 m; other lengths on request

CONSTRUCTION, STANDARDS & QUALITY

Construction

- LC small-form-factor connector body
- Precision 1.25 mm zirconia ceramic ferrule
- 900 μm tight-buffered optical fiber
- LSZH / FRNC low-smoke, halogen-free buffer material
- Dust cap fitted to each terminated LC connector

Reference Standards

- IEC 61754-20 - Type LC connector family interface
- IEC 61755-1 - Single-mode connector optical interfaces
- IEC 61300 series - Fiber optic interconnecting-device test procedures
- ITU-T G.657.A1 / G.652.D - OS2 single-mode fiber
- TIA-598 / IEC 60304 - Color coding for fiber identification where applicable

Quality control: 100% insertion-loss and return-loss testing is required for finished pigtails. Connector end faces shall be clean and free from defects affecting optical performance before packing.

ORDERING INFORMATION - SINGLE LC PIGTAIL

Part Number	Description
PL-PS2LCU15	LC/UPC Single Mode OS2 (G.657.A1 / G.652.D), 900 µm, 1.5 m
PL-PS2LCA15	LC/APC Single Mode OS2 (G.657.A1 / G.652.D), 900 µm, 1.5 m
PL-PM2LCU15	LC/UPC Multimode OM2, 900 µm, 1.5 m
PL-PM3LCU15	LC/UPC Multimode OM3, 900 µm, 1.5 m
PL-PM4LCU15	LC/UPC Multimode OM4, 900 µm, 1.5 m

COLOR IDENTIFICATION & PROJECT OPTIONS

Fiber / Polish	Standard 900 µm Buffer	Connector Identification
OS2 LC/UPC	Yellow buffer standard	Blue connector housing
OS2 LC/APC	Yellow buffer standard	Green connector housing
OM2 LC/UPC	Orange buffer standard	Beige / grey identification
OM3 LC/UPC	Aqua buffer standard	Aqua identification
OM4 LC/UPC	Magenta / violet buffer standard	Magenta / violet identification
OM5 LC/UPC	Lime green buffer (option)	Lime green identification

Custom buffer colors available on request for project identification: Blue, Orange, Green, Brown, Slate (Gray), White, Red, Black, Yellow, Violet, Rose and Aqua. The 900 µm buffer color may be customized without changing the connector identification convention; LC/UPC and LC/APC connector colors remain selected according to polish and fiber type.

25-Year System Warranty

Subject to proper installation and certified components usage.