FIBER PATCH CORDS

LC/UPC Duplex Patch Cord

Model PSK-PC-101 · PROSKY passive network infrastructure

Duplex single-mode patch cord terminated LC/UPC on both ends for transceiver-to-panel links in dense frames. Bend-insensitive G.657.A1 fiber and a 2.0 mm LSZH zipcord jacket handle the tight routing of modern patching fields.

Product overview

The LC/UPC Duplex Patch Cord pairs two tight-buffered G.657.A1 fibers in a 2.0 mm LSZH zipcord, terminated on both ends with LC connectors carrying 1.25 mm zirconia ferrules and an ultra-physical-contact (UPC) dome polish. The duplex format matches the Tx/Rx layout of optical transceivers, and a removable duplex clip keeps polarity managed while allowing A/B reversal in the field.

Performance lives in the connector geometry: the UPC polish controls ferrule radius, apex offset and fiber height so that mated pairs achieve low insertion loss and high return loss consistently across mating cycles. As a product class, each cord is factory-tested for insertion loss before shipment, with typical values of 0.3 dB or better per connector and return loss of 50 dB or more. The bend-insensitive G.657.A1 fiber tolerates the tight bends of high-density cable managers without the attenuation penalty standard fiber would take.

These cords make the final connection layer of structured optical plant: transceiver-to-panel links in data-center rows, cross-connects between distribution frames, and equipment patching in enterprise and exchange environments. Lengths, jacket colors and uniboot variants are selected per site practice.

Key features

- LC/UPC terminations with 1.25 mm zirconia ferrules, factory-polished and tested as a class
- Bend-insensitive G.657.A1 fiber for tight routing in dense cable managers
- 2.0 mm duplex LSZH zipcord — low smoke, zero halogen for indoor plant
- Removable duplex clip with field-reversible A/B polarity
- Typical insertion loss ≤ 0.3 dB per connector; return loss ≥ 50 dB
- Flexible strain-relief boots protect the fiber at the connector exit
- Standard lengths 0.5–30 m; other lengths and uniboot variants on request

Applications

- Data-center transceiver patching
- Cross-connects between distribution frames
- Enterprise equipment-room patching
- Active-equipment connections in exchanges
- High-density panel interconnects

Network types: Data center, Enterprise

Technical specifications

Typical values for this product class — request the certified PROSKY datasheet for guaranteed figures.

Optical	
Insertion loss	≤ 0.3 dB per connector (typical 0.15 dB)
Return loss (UPC)	≥ 50 dB
Operating wavelength	1260 – 1625 nm
Durability	≥ 500 matings, ΔIL ≤ 0.2 dB

Fiber & cable	
Fiber	Single-mode, ITU-T G.657.A1
Cable construction	2.0 mm duplex zipcord, aramid-reinforced
Jacket	LSZH, yellow (single-mode)
Ferrule	Zirconia (ZrO2), 1.25 mm

Mechanical	
Cable–connector retention	≥ 50 N
Min bend radius (cord)	≥ 15 mm installed
Standard lengths	0.5 / 1 / 2 / 3 / 5 / 10 / 15 / 30 m
Polarity	A–B duplex, field-reversible clip

Environmental	
Operating temperature	−25 °C to +70 °C
Storage temperature	−40 °C to +85 °C
Flammability	LSZH jacket, indoor-rated

Standards alignment

- Designed to align with IEC 61754-20 (LC interface)
- Designed to align with IEC 61755 (optical connection performance)
- Designed to align with Telcordia GR-326 (single-mode jumpers)
- Designed to align with ITU-T G.657 (bend-insensitive fiber)

Standards are named as design-alignment references for this product class, not as certifications held.

Packaging

Typical export packaging: each cord coiled in an individual polybag with a length/type label; 50 cords per inner carton, consolidated in export master cartons. Custom labeling and kitting per project on request.

Ordering & contact

Specify model PSK-PC-101 with your required configuration (fiber count, length, termination or format options as applicable). For project engineering support, certified figures and commercial terms, contact PROSKY via proskytele.com.