CORNIX

PRODUCT DATASHEET

CNX-DS-F64-001 · REV 1.0 · 06 OCTOBER 2026

FIBER CONNECTIVITY · SINGLE-MODE FIBER PATCH CORD (G.657.A1)

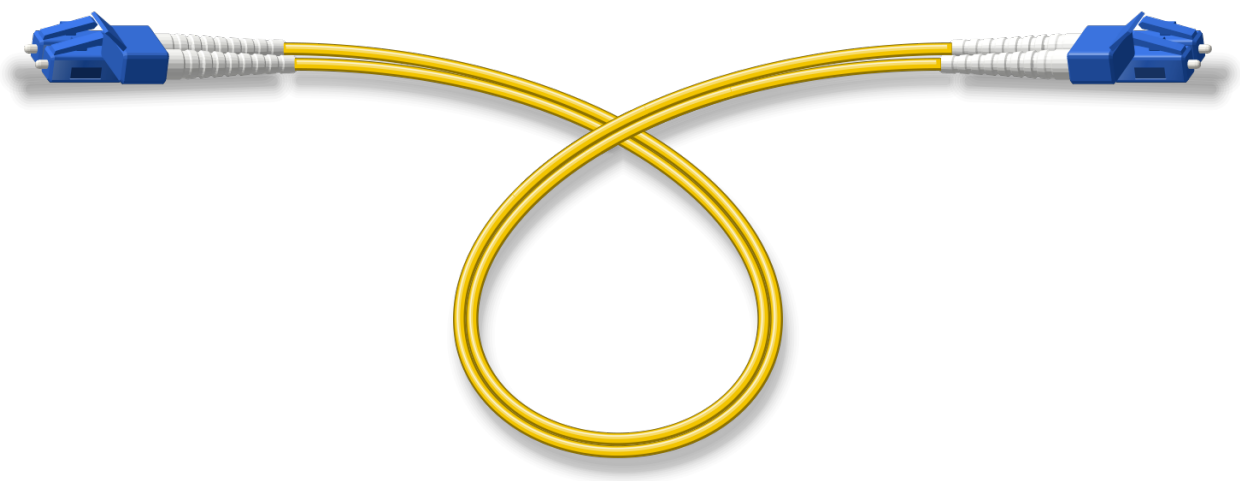
Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-LC/UPC, 1 m

BEND-INSENSITIVE G.657.A1 · LC / SC · UPC & APC · LSZH

PART NO. **CX-FP-OS2B-LCLC-01M-DX**

Also marked on products / QR labels as: CX-FP-SM-LC-LC-01M, CX-FP-OS2-LCLC-01M

PRODUCT ILLUSTRATION



≤ 0.2 dB	LC/UPC ≥ 50 dB	1 m	Duplex
INSERTION LOSS	RETURN LOSS	LENGTH	CONFIGURATION

OVERVIEW

Factory-terminated single-mode patch cords built on bend-insensitive ITU-T G.657.A1 fiber, fully compatible with G.652.D networks. Developed for patch fields, enclosures, FTTH distribution points and active equipment, in LC and SC combinations with UPC, APC and UPC-to-APC hybrid end faces. Every cord is 100% tested for insertion and return loss.

- Bend-insensitive ITU-T G.657.A1 fiber, G.652.D compatible
- Zirconia ceramic ferrules, factory polished
- Insertion loss ≤ 0.2 dB, 100% tested
- UPC, APC and UPC-to-APC hybrid versions
- LSZH jacket, color-coded connectors

APPLICATIONS

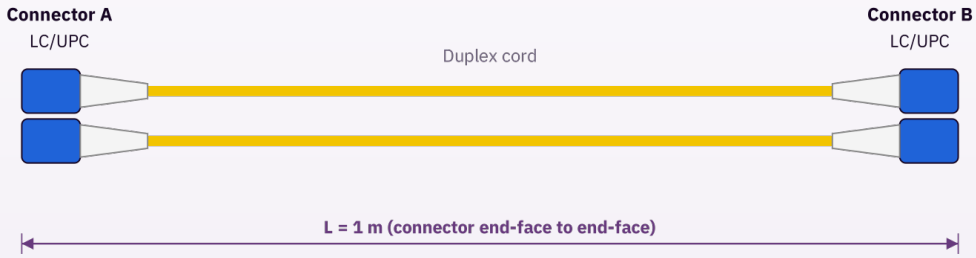
- Patch panels, ODFs and enclosures
- FTTH distribution boxes and ONT / OLT connections
- Data center and telecom-room patching

STANDARDS & COMPLIANCE

Telcordia GR-326-CORE · IEC 61754 · ANSI/TIA-568.3-D · RoHS compliant

Technical Specifications

Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-LC/UPC, 1 m · CX-FP-OS2B-LCLC-01M-DX



A1 · A2 · B1 · B2 = individually tested connector positions (insertion & return loss)

ASSEMBLY DRAWING

GENERAL

Connector A	**LC/UPC**
Connector B	**LC/UPC**
Length	**1 m**
Configuration	**Duplex**
Length tolerance	**0 / +100 mm (L ≤ 20 m)**

CONSTRUCTION

Cable	**Duplex zip cord, 2 × Ø 2.0 mm, LSZH, yellow**
Jacket color	**Yellow**
Ferrule	**Zirconia ceramic**

OPTICAL CHARACTERISTICS

Fiber type	**Single-mode, ITU-T G.657.A1 (bend-insensitive, G.652.D compatible)**

OPTICAL PERFORMANCE

Insertion loss	**≤ 0.2 dB**
Return loss	**LC/UPC ≥ 50 dB**
Repeatability	**≤ 0.1 dB**
Durability	**≤ 0.2 dB**
Interchangeability	**≤ 0.2 dB**

MECHANICAL

Min. bend radius — static / dynamic	**10 × OD / 20 × OD**
Cord tensile strength	**> 60 N**

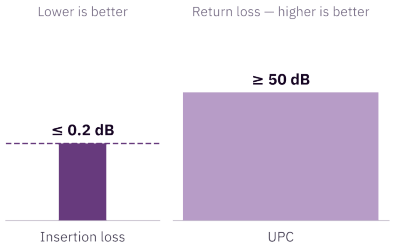
ENVIRONMENTAL

Operating temperature	**-20 °C to +70 °C**
Storage temperature	**-40 °C to +80 °C**

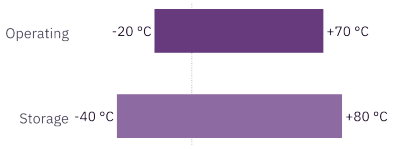
Performance, Quality & Ordering

CX-FP-OS2B-LCLC-01M-DX

OPTICAL PERFORMANCE



TEMPERATURE RANGE



INDIVIDUAL TEST REPORT — EVERY ASSEMBLY

100% IL / RL TESTED

Test item	Requirement	Method	Recorded on
Insertion loss	≤ 0.2 dB	IEC 61300-3-4	A1, A2, B1, B2
Return loss	LC/UPC ≥ 50 dB	IEC 61300-3-6	A1, A2, B1, B2
End-face geometry & cleanliness	Pass	Interferometer / microscope	Each connector

Measured insertion and return loss values are printed on each unit's label and test sheet.

ORDERING INFORMATION

CX	FP	OS2B	LCLC	01M	DX
CORNIX	Patch cord	Single-mode G.657.A	LC – LC	Length 1 m	Duplex

Part number	Description
CX-FP-OS2B-LCLC-01M-DX	**Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-LC/UPC, 1 m**
CX-FP-OS2B-LCLC-01M-DX-APC	Single-Mode G.657.A1 Duplex Patch Cord, LC/APC-LC/APC, 1 m
CX-FP-OS2B-LCLC-02M-DX	Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-LC/UPC, 2 m
CX-FP-OS2B-LCLC-03M-DX	Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-LC/UPC, 3 m
CX-FP-OS2B-LCLC-03M-DX-APC	Single-Mode G.657.A1 Duplex Patch Cord, LC/APC-LC/APC, 3 m
CX-FP-OS2B-LCLC-05M-DX	Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-LC/UPC, 5 m
CX-FP-OS2B-LCLC-10M-DX	Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-LC/UPC, 10 m

22 part numbers in this family — full list in the family datasheet.

Request a quote or technical support

Datasheets, test reports and samples available on request

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