CORNIX

PRODUCT DATASHEET

CNX-DS-F64-005 · REV 1.0 · 06 OCTOBER 2026

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

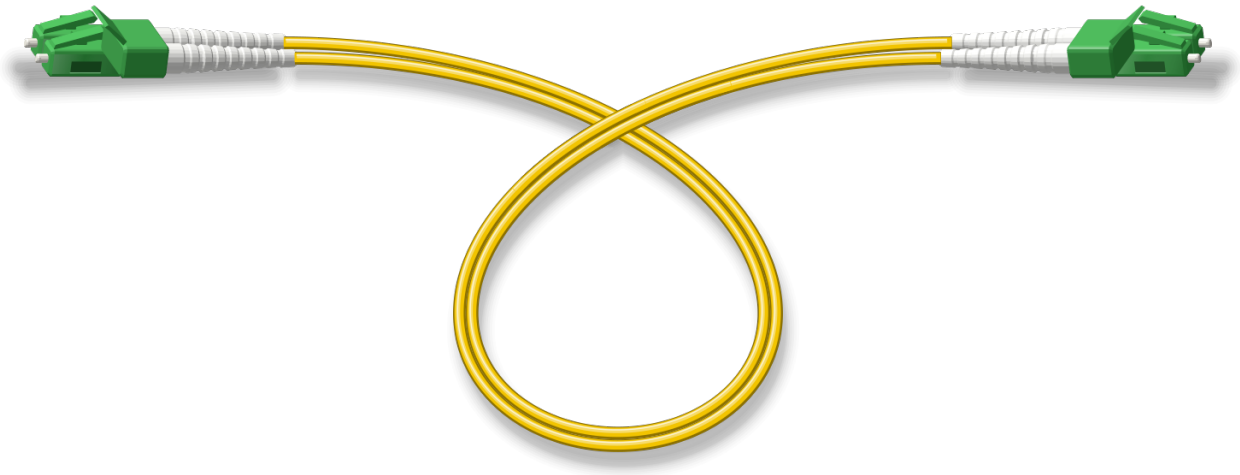
Single-Mode G.657.A1 Duplex Patch Cord, LC/APC-LC/APC, 3 m

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

PART NO. **CX-FP-OS2B-LCLC-03M-DX-APC**

Also marked on products / QR labels as: CX-FP-SM-LC-LC-APC-03M, CX-FP-OS2-LCLC-03M-APC

PRODUCT ILLUSTRATION



≤ 0.2 dB	LC/APC ≥ 60 dB	3 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

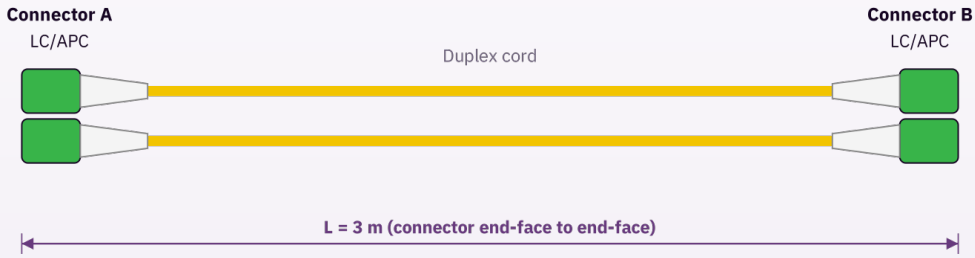
- Patch panels, ODFs and enclosures
- FTTH distribution boxes and ONT / OLT connections
- Data center and telecom-room patching

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/APC-LC/APC, 3 m · CX-FP-OS2B-LCLC-03M-DX-APC



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

ASSEMBLY DRAWING

GENERAL

Connector A	**LC/APC**
Connector B	**LC/APC**
Length	**3 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/APC ≥ 60 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**

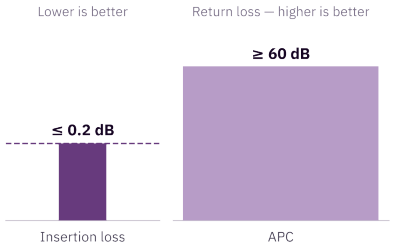
ENVIRONMENTAL

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

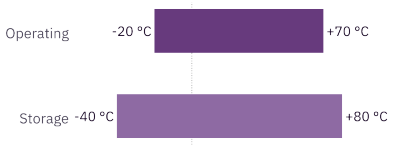
Performance, Quality & Ordering

CX-FP-OS2B-LCLC-03M-DX-APC

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/APC ≥ 60 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	03M	DX	APC
CORNIX	Patch cord	Single-mode G.657.A	LC – LC	Length 3 m	Duplex	APC polish

Part number	Description
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
CX-FP-OS2B-LCSC-01M-DX	Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-SC/UPC, 1 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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