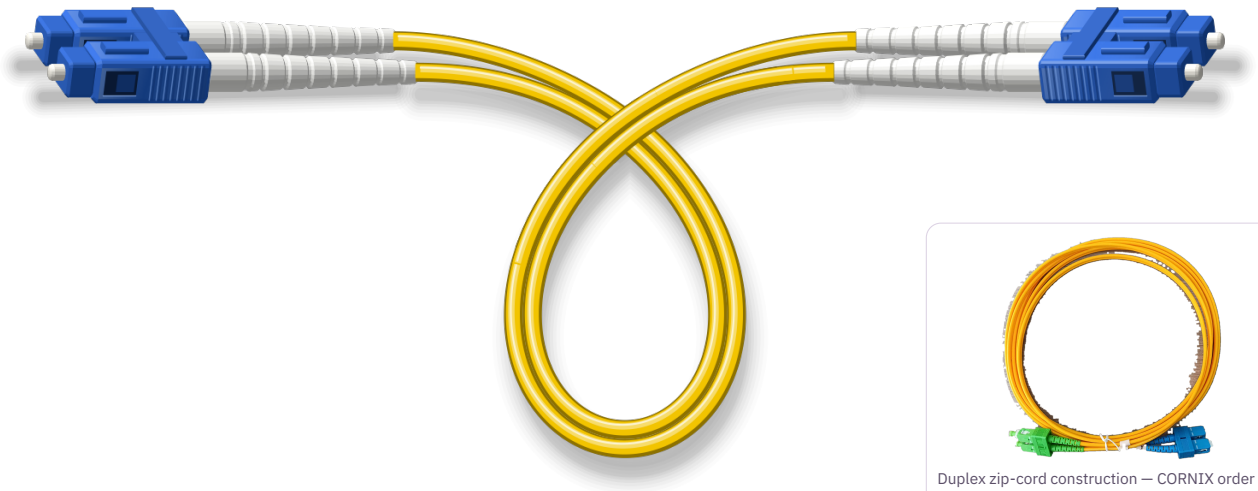
FIBER CONNECTIVITY

# Single-Mode Fiber Patch Cord (G.657.A1)

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

FAMILY **F64 • 22 PART NUMBERS**

SHOWN: CX-FP-OS2B-SCSC-05M-DX





Duplex zip-cord construction — CORNIX order 2026

| ≤ 0.2 dB | SC/UPC ≥ 50 dB | 0 / +100 mm (L ≤ 20 m) | Duplex |
|---|---|---|---|
| INSERTION LOSS | RETURN LOSS | LENGTH TOLERANCE | 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

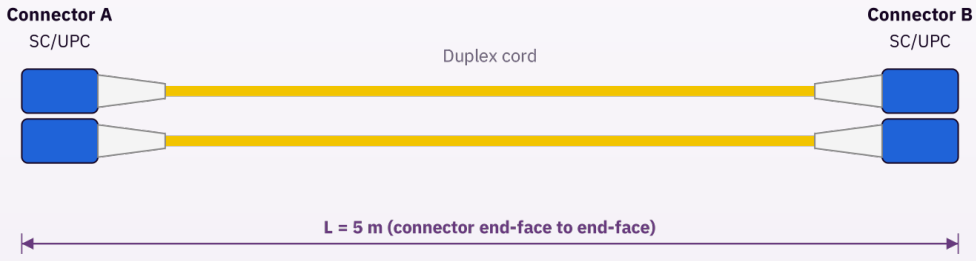
- Patch panels, ODFs and enclosures
- FTTH distribution boxes and ONT / OLT connections
- Data center and telecom-room patching

## STANDARDS & COMPLIANCE

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

# Common Specifications

Values shared by all 22 part numbers in this family · variant-specific values on the following page




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

ASSEMBLY DRAWING — SHOWN FOR CX-FP-OS2B-SCSC-05M-DX

## GENERAL

| | |
|---|---|
| Length tolerance | **0 / +100 mm (L ≤ 20 m)** |

## CONSTRUCTION

| | |
|---|---|
| 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** |
| Repeatability | **≤ 0.1 dB** |
| Durability | **≤ 0.2 dB** |
| Interchangeability | **≤ 0.2 dB** |

## MECHANICAL

| | |
|---|---|
| Cord tensile strength | **> 60 N** |

## ENVIRONMENTAL

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

## Ordering Information

22 part numbers · individual datasheets available for every part number

| Part number | Description | Connectors | Length | Configuration | Cable |
|---|---|---|---|---|---|
| **Duplex patch cords** | | | | | |
| CX-FP-OS2B-LCLC-01M-DX | Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-LC/UPC, 1 m | LC/UPC-LC/UPC | 1 m | Duplex | 2.0 mm LSZH |
| CX-FP-OS2B-LCLC-01M-DX-APC | Single-Mode G.657.A1 Duplex Patch Cord, LC/APC-LC/APC, 1 m | LC/APC-LC/APC | 1 m | Duplex | 2.0 mm LSZH |
| CX-FP-OS2B-LCLC-02M-DX | Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-LC/UPC, 2 m | LC/UPC-LC/UPC | 2 m | Duplex | 2.0 mm LSZH |
| CX-FP-OS2B-LCLC-03M-DX | Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-LC/UPC, 3 m | LC/UPC-LC/UPC | 3 m | Duplex | 2.0 mm LSZH |
| CX-FP-OS2B-LCLC-03M-DX-APC | Single-Mode G.657.A1 Duplex Patch Cord, LC/APC-LC/APC, 3 m | LC/APC-LC/APC | 3 m | Duplex | 2.0 mm LSZH |
| CX-FP-OS2B-LCLC-05M-DX | Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-LC/UPC, 5 m | LC/UPC-LC/UPC | 5 m | Duplex | 2.0 mm LSZH |
| CX-FP-OS2B-LCLC-10M-DX | Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-LC/UPC, 10 m | LC/UPC-LC/UPC | 10 m | Duplex | 2.0 mm LSZH |
| CX-FP-OS2B-LCSC-01M-DX | Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-SC/UPC, 1 m | LC/UPC-SC/UPC | 1 m | Duplex | 2.0 mm LSZH |
| CX-FP-OS2B-LCSC-02M-DX | Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-SC/UPC, 2 m | LC/UPC-SC/UPC | 2 m | Duplex | 2.0 mm LSZH |
| CX-FP-OS2B-LCSC-03M-DX | Single-Mode G.657.A1 Duplex Patch Cord, LC/UPC-SC/UPC, 3 m | LC/UPC-SC/UPC | 3 m | Duplex | 2.0 mm LSZH |
| CX-FP-OS2B-SCSC-05M-DX | Single-Mode G.657.A1 Duplex Patch Cord, SC/UPC-SC/UPC, 5 m | SC/UPC-SC/UPC | 5 m | Duplex | 3.0 mm LSZH |
| CX-FP-OS2B-SCU-SCA-03M-DX | Single-Mode G.657.A1 Duplex Patch Cord, SC/UPC-SC/APC, 3 m | SC/UPC-SC/APC | 3 m | Duplex | 3.0 mm LSZH |
| **Simplex patch cords** | | | | | |
| CX-FP-OS2B-LCLC-01M | Single-Mode G.657.A1 Simplex Patch Cord, LC/UPC-LC/UPC, 1 m | LC/UPC-LC/UPC | 1 m | Simplex | 3.0 mm LSZH |
| CX-FP-OS2B-LCLC-03M | Single-Mode G.657.A1 Simplex Patch Cord, LC/UPC-LC/UPC, 3 m | LC/UPC-LC/UPC | 3 m | Simplex | 3.0 mm LSZH |
| CX-FP-OS2B-LCLC-05M | Single-Mode G.657.A1 Simplex Patch Cord, LC/UPC-LC/UPC, 5 m | LC/UPC-LC/UPC | 5 m | Simplex | 3.0 mm LSZH |
| CX-FP-OS2B-SCA-LCU-01M | Single-Mode G.657.A1 Simplex Patch Cord, SC/APC-LC/UPC, 1 m | SC/APC-LC/UPC | 1 m | Simplex | 3.0 mm LSZH |
| CX-FP-OS2B-SCA-LCU-03M | Single-Mode G.657.A1 Simplex Patch Cord, SC/APC-LC/UPC, 3 m | SC/APC-LC/UPC | 3 m | Simplex | 3.0 mm LSZH |
| CX-FP-OS2B-SCSC-01M | Single-Mode G.657.A1 Simplex Patch Cord, SC/UPC-SC/UPC, 1 m | SC/UPC-SC/UPC | 1 m | Simplex | 2.0 mm LSZH |
| CX-FP-OS2B-SCSC-01M-APC | Single-Mode G.657.A1 Simplex Patch Cord, SC/APC-SC/APC, 1 m | SC/APC-SC/APC | 1 m | Simplex | 3.0 mm LSZH |
| CX-FP-OS2B-SCSC-03M | Single-Mode G.657.A1 Simplex Patch Cord, SC/UPC-SC/UPC, 3 m | SC/UPC-SC/UPC | 3 m | Simplex | 2.0 mm LSZH |
| CX-FP-OS2B-SCSC-03M-APC | Single-Mode G.657.A1 Simplex Patch Cord, SC/APC-SC/APC, 3 m | SC/APC-SC/APC | 3 m | Simplex | 3.0 mm LSZH |
| CX-FP-OS2B-SCSC-05M-APC | Single-Mode G.657.A1 Simplex Patch Cord, SC/APC-SC/APC, 5 m | SC/APC-SC/APC | 5 m | Simplex | 3.0 mm LSZH |

## Variant-Specific Specifications

Values that differ between part numbers

| Part number | Cable | Min. bend radius — static / dynamic | Return loss |
|---|---|---|---|
| CX-FP-OS2B-LCLC-01M-DX | Duplex zip cord, 2 × Ø 2.0 mm, LSZH, yellow | 10 × OD / 20 × OD | LC/UPC ≥ 50 dB |
| CX-FP-OS2B-LCLC-01M-DX-APC | Duplex zip cord, 2 × Ø 2.0 mm, LSZH, yellow | 10 × OD / 20 × OD | LC/APC ≥ 60 dB |
| CX-FP-OS2B-LCLC-02M-DX | Duplex zip cord, 2 × Ø 2.0 mm, LSZH, yellow | 10 × OD / 20 × OD | LC/UPC ≥ 50 dB |
| CX-FP-OS2B-LCLC-03M-DX | Duplex zip cord, 2 × Ø 2.0 mm, LSZH, yellow | 10 × OD / 20 × OD | LC/UPC ≥ 50 dB |
| CX-FP-OS2B-LCLC-03M-DX-APC | Duplex zip cord, 2 × Ø 2.0 mm, LSZH, yellow | 10 × OD / 20 × OD | LC/APC ≥ 60 dB |
| CX-FP-OS2B-LCLC-05M-DX | Duplex zip cord, 2 × Ø 2.0 mm, LSZH, yellow | 10 × OD / 20 × OD | LC/UPC ≥ 50 dB |
| CX-FP-OS2B-LCLC-10M-DX | Duplex zip cord, 2 × Ø 2.0 mm, LSZH, yellow | 10 × OD / 20 × OD | LC/UPC ≥ 50 dB |
| CX-FP-OS2B-LCSC-01M-DX | Duplex zip cord, 2 × Ø 2.0 mm, LSZH, yellow | 10 × OD / 20 × OD | LC/UPC ≥ 50 dB · SC/UPC ≥ 50 dB |
| CX-FP-OS2B-LCSC-02M-DX | Duplex zip cord, 2 × Ø 2.0 mm, LSZH, yellow | 10 × OD / 20 × OD | LC/UPC ≥ 50 dB · SC/UPC ≥ 50 dB |
| CX-FP-OS2B-LCSC-03M-DX | Duplex zip cord, 2 × Ø 2.0 mm, LSZH, yellow | 10 × OD / 20 × OD | LC/UPC ≥ 50 dB · SC/UPC ≥ 50 dB |
| CX-FP-OS2B-SCSC-05M-DX | Duplex zip cord, LSZH, yellow, (3.0 ± 0.1) × (6.0 ± 0.2) mm | 10 × H / 20 × H (H = cable height) | SC/UPC ≥ 50 dB |
| CX-FP-OS2B-SCU-SCA-03M-DX | Duplex zip cord, LSZH, yellow, (3.0 ± 0.1) × (6.0 ± 0.2) mm | 10 × H / 20 × H (H = cable height) | SC/UPC ≥ 50 dB · SC/APC ≥ 60 dB |
| CX-FP-OS2B-LCLC-01M | Simplex, LSZH, yellow, Ø 3.0 ± 0.1 mm | 30 mm / 60 mm | LC/UPC ≥ 50 dB |
| CX-FP-OS2B-LCLC-03M | Simplex, LSZH, yellow, Ø 3.0 ± 0.1 mm | 30 mm / 60 mm | LC/UPC ≥ 50 dB |
| CX-FP-OS2B-LCLC-05M | Simplex, LSZH, yellow, Ø 3.0 ± 0.1 mm | 30 mm / 60 mm | LC/UPC ≥ 50 dB |
| CX-FP-OS2B-SCA-LCU-01M | Simplex, LSZH, yellow, Ø 3.0 ± 0.1 mm | 30 mm / 60 mm | SC/APC ≥ 60 dB · LC/UPC ≥ 50 dB |
| CX-FP-OS2B-SCA-LCU-03M | Simplex, LSZH, yellow, Ø 3.0 ± 0.1 mm | 30 mm / 60 mm | SC/APC ≥ 60 dB · LC/UPC ≥ 50 dB |
| CX-FP-OS2B-SCSC-01M | Simplex, Ø 2.0 mm, LSZH, yellow | 10 × OD / 20 × OD | SC/UPC ≥ 50 dB |
| CX-FP-OS2B-SCSC-01M-APC | Simplex, LSZH, yellow, Ø 3.0 ± 0.1 mm | 30 mm / 60 mm | SC/APC ≥ 60 dB |
| CX-FP-OS2B-SCSC-03M | Simplex, Ø 2.0 mm, LSZH, yellow | 10 × OD / 20 × OD | SC/UPC ≥ 50 dB |
| CX-FP-OS2B-SCSC-03M-APC | Simplex, LSZH, yellow, Ø 3.0 ± 0.1 mm | 30 mm / 60 mm | SC/APC ≥ 60 dB |
| CX-FP-OS2B-SCSC-05M-APC | Simplex, LSZH, yellow, Ø 3.0 ± 0.1 mm | 30 mm / 60 mm | SC/APC ≥ 60 dB |

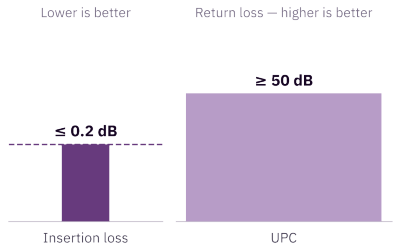
| Part number | Tight buffer |
|---|---|
| CX-FP-OS2B-LCLC-01M-DX | — |
| CX-FP-OS2B-LCLC-01M-DX-APC | — |
| CX-FP-OS2B-LCLC-02M-DX | — |
| CX-FP-OS2B-LCLC-03M-DX | — |
| CX-FP-OS2B-LCLC-03M-DX-APC | — |
| CX-FP-OS2B-LCLC-05M-DX | — |
| CX-FP-OS2B-LCLC-10M-DX | — |
| CX-FP-OS2B-LCSC-01M-DX | — |
| CX-FP-OS2B-LCSC-02M-DX | — |
| CX-FP-OS2B-LCSC-03M-DX | — |
| CX-FP-OS2B-SCSC-05M-DX | PVC, 0.85 ± 0.05 mm (white / yellow) |
| CX-FP-OS2B-SCU-SCA-03M-DX | PVC, 0.85 ± 0.05 mm (white / yellow) |
| CX-FP-OS2B-LCLC-01M | PVC, white, 0.85 ± 0.05 mm |
| CX-FP-OS2B-LCLC-03M | PVC, white, 0.85 ± 0.05 mm |
| CX-FP-OS2B-LCLC-05M | PVC, white, 0.85 ± 0.05 mm |

| Part number | Tight buffer |
|---|---|
| CX-FP-OS2B-SCA-LCU-01M | PVC, white, 0.85 ± 0.05 mm |
| CX-FP-OS2B-SCA-LCU-03M | PVC, white, 0.85 ± 0.05 mm |
| CX-FP-OS2B-SCSC-01M | — |
| CX-FP-OS2B-SCSC-01M-APC | PVC, white, 0.85 ± 0.05 mm |
| CX-FP-OS2B-SCSC-03M | — |
| CX-FP-OS2B-SCSC-03M-APC | PVC, white, 0.85 ± 0.05 mm |
| CX-FP-OS2B-SCSC-05M-APC | PVC, white, 0.85 ± 0.05 mm |

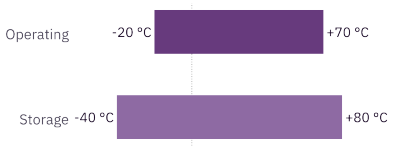
## Performance

Shown for CX-FP-OS2B-SCSC-05M-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 | SC/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.

**Request a quote or technical support**

Datasheets, test reports and samples available on request

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