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

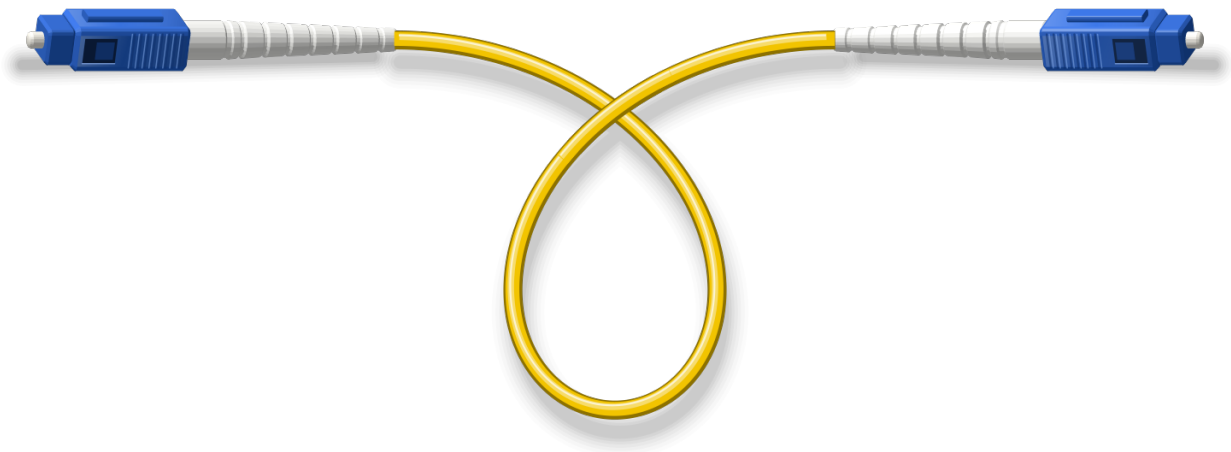
# Single-Mode G.657.A1 Simplex Patch Cord, SC/UPC-SC/UPC, 1 m

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

PART NO. **CX-FP-OS2B-SCSC-01M**

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

PRODUCT ILLUSTRATION



| ≤ 0.2 dB | SC/UPC ≥ 50 dB | 1 m | Simplex |
|---|---|---|---|
| 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

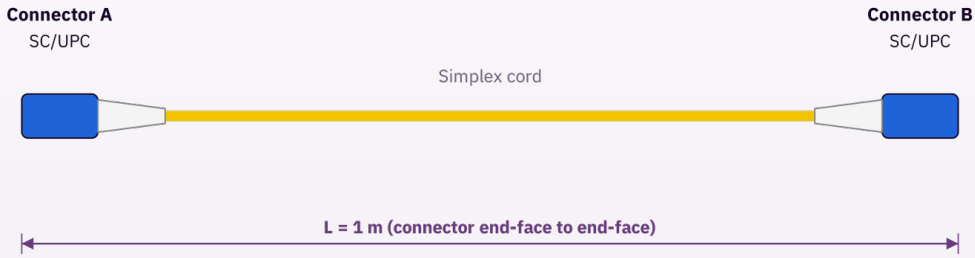
- Patch panels, ODFs and enclosures
- FTTH distribution boxes and ONT / OLT connections
- Data center and telecom-room patching

## STANDARDS & COMPLIANCE

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

# Technical Specifications

Single-Mode G.657.A1 Simplex Patch Cord, SC/UPC-SC/UPC, 1 m · CX-FP-OS2B-SCSC-01M




ASSEMBLY DRAWING

## GENERAL

| | |
|---|---|
| Connector A | **SC/UPC** |
| Connector B | **SC/UPC** |
| Length | **1 m** |
| Configuration | **Simplex** |
| Length tolerance | **0 / +100 mm (L ≤ 20 m)** |

## CONSTRUCTION

| | |
|---|---|
| Cable | **Simplex, 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 | **SC/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** |

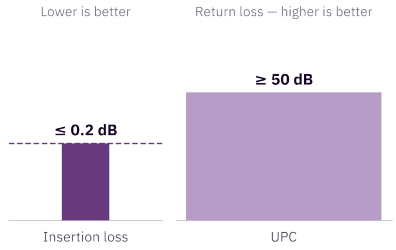
## ENVIRONMENTAL

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

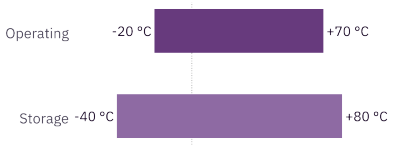
# Performance, Quality & Ordering

CX-FP-OS2B-SCSC-01M

## 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 |
| Return loss | SC/UPC ≥ 50 dB | IEC 61300-3-6 | A1, A2 |
| 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 | SCSC | 01M |
|---|---|---|---|---|
| CORNIX | Patch cord | Single-mode G.657.A | SC – SC | Length 1 m |

| Part number | Description |
|---|---|
| CX-FP-OS2B-LCLC-05M | Single-Mode G.657.A1 Simplex Patch Cord, LC/UPC-LC/UPC, 5 m |
| CX-FP-OS2B-SCA-LCU-01M | Single-Mode G.657.A1 Simplex Patch Cord, SC/APC-LC/UPC, 1 m |
| CX-FP-OS2B-SCA-LCU-03M | Single-Mode G.657.A1 Simplex Patch Cord, SC/APC-LC/UPC, 3 m |
| **CX-FP-OS2B-SCSC-01M** | **Single-Mode G.657.A1 Simplex Patch Cord, SC/UPC-SC/UPC, 1 m** |
| CX-FP-OS2B-SCSC-01M-APC | Single-Mode G.657.A1 Simplex Patch Cord, SC/APC-SC/APC, 1 m |
| CX-FP-OS2B-SCSC-03M | Single-Mode G.657.A1 Simplex Patch Cord, SC/UPC-SC/UPC, 3 m |
| CX-FP-OS2B-SCSC-03M-APC | Single-Mode G.657.A1 Simplex Patch Cord, SC/APC-SC/APC, 3 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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