FIBER OPTIC CABLE

# Single-Mode FTTH Drop Cable (G.657.A2)

BEND-INSENSITIVE · G.657.A2 · FTTH DROP · FRP STRENGTH MEMBERS

FAMILY **F50 • 5 PART NUMBERS**

SHOWN: CX-FB-OS2B-01-IN-DROP-LSZH



| 1 | 0.36 / 0.22 dB/km | 2.0 × 3.0 ± 0.1 mm | 80 N / 40 N |
|---|---|---|---|
| FIBER COUNT | ATTENUATION @ 1310 / 1550 NM | CABLE DIMENSIONS | TENSILE LOAD SHORT / LONG TERM |

## OVERVIEW

Low-count single-mode drop cable developed for the final link to subscriber premises in FTTH and FTTx networks. The flat profile with FRP strength members is designed for easy stripping and routing in indoor risers and outdoor drop paths where applicable.

- Bend-insensitive ITU-T G.657.A2 fiber
- Flat profile with two FRP strength members
- Easy strip with no special tools
- Indoor LSZH and outdoor versions
- Ideal for FTTH subscriber drops

## APPLICATIONS

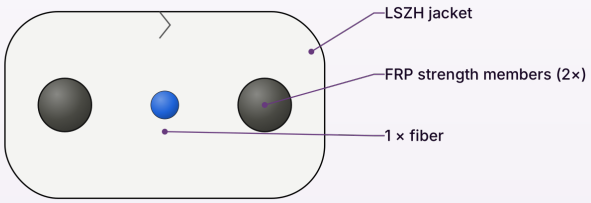
- FTTH subscriber drops
- Indoor riser and in-apartment routing
- Outdoor drop paths (FRP versions)

## STANDARDS & COMPLIANCE

ITU-T G.657 · ANSI/TIA-568.3-D · IEC 60332-1 (LSZH) · RoHS compliant

# Common Specifications

Values shared by all 5 part numbers in this family · variant-specific values on the following page




CROSS-SECTION (ILLUSTRATIVE, NOT TO SCALE) — SHOWN FOR CX-FB-OS2B-01-IN-DROP-LSZH

## OPTICAL CHARACTERISTICS

| | |
|---|---|
| Fiber type | **Single-mode, ITU-T G.657.A2 (bend-insensitive)** |

## ENVIRONMENTAL

| | |
|---|---|
| Operating temperature | **-20 °C to +60 °C** |

## Ordering Information

5 part numbers · individual datasheets available for every part number

| Part number | Description | Fiber count | Type | Jacket | Environment |
|---|---|---|---|---|---|
| **Indoor flat drop (LSZH)** | | | | | |
| CX-FB-OS2B-01-IN-DROP-LSZH | G.657.A2 Single-Mode FTTH Flat Drop Cable, 1F, Indoor, LSZH | 1 | Flat drop, 2 × FRP | LSZH, black | Indoor |
| CX-FB-OS2B-02-IN-DROP-LSZH | G.657.A2 Single-Mode FTTH Flat Drop Cable, 2F, Indoor, LSZH | 2 | Flat drop, 2 × FRP | LSZH, black | Indoor |
| CX-FB-OS2B-04-IN-DROP-LSZH | G.657.A2 Single-Mode FTTH Flat Drop Cable, 4F, Indoor, LSZH | 4 | Flat drop, 2 × FRP | LSZH, black | Indoor |
| **Outdoor drop (FRP)** | | | | | |
| CX-FB-OS2B-01-OD-DROP-FRP | G.657.A2 Single-Mode FTTH Outdoor Drop Cable, 1F, FRP | 1 | Outdoor drop, FRP strength members | — | Outdoor / aerial |
| CX-FB-OS2B-02-OD-DROP-FRP | G.657.A2 Single-Mode FTTH Outdoor Drop Cable, 2F, FRP | 2 | Outdoor drop, FRP strength members | — | Outdoor / aerial |

## Variant-Specific Specifications

Values that differ between part numbers

| Part number | Strength members | Jacket | Cable dimensions |
|---|---|---|---|
| CX-FB-OS2B-01-IN-DROP-LSZH | 2 × FRP, 0.5 mm | LSZH, black | 2.0 × 3.0 ± 0.1 mm |
| CX-FB-OS2B-02-IN-DROP-LSZH | 2 × FRP, 0.5 mm | LSZH, black | 2.0 × 3.0 ± 0.1 mm |
| CX-FB-OS2B-04-IN-DROP-LSZH | 2 × FRP, 0.5 mm | LSZH, black | 2.0 × 4.0 ± 0.2 mm |
| CX-FB-OS2B-01-OD-DROP-FRP | 2 × FRP, 0.5 mm (parallel) | — | — |
| CX-FB-OS2B-02-OD-DROP-FRP | 2 × FRP, 0.5 mm (parallel) | — | — |

| Part number | Cable weight | Max. attenuation @ 1310 / 1550 nm | Tensile load — short / long term |
|---|---|---|---|
| CX-FB-OS2B-01-IN-DROP-LSZH | 8.0 kg/km | 0.36 / 0.22 dB/km | 80 N / 40 N |
| CX-FB-OS2B-02-IN-DROP-LSZH | 8.5 kg/km | 0.36 / 0.22 dB/km | 80 N / 40 N |
| CX-FB-OS2B-04-IN-DROP-LSZH | 10.0 kg/km | 0.36 / 0.22 dB/km | 80 N / 40 N |
| CX-FB-OS2B-01-OD-DROP-FRP | — | 0.36 / 0.25 dB/km | — |
| CX-FB-OS2B-02-OD-DROP-FRP | — | 0.36 / 0.25 dB/km | — |

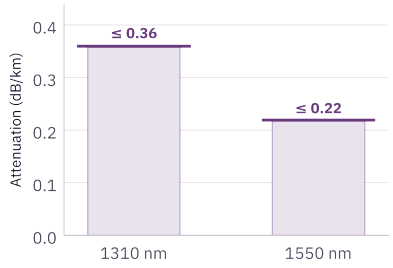
| Part number | Crush resistance — short / long term | Min. bend radius — static / dynamic | Installation temperature |
|---|---|---|---|
| CX-FB-OS2B-01-IN-DROP-LSZH | 1000 N / 500 N per 100 mm | 15 mm / 30 mm | -5 °C to +50 °C |
| CX-FB-OS2B-02-IN-DROP-LSZH | 1000 N / 500 N per 100 mm | 15 mm / 30 mm | -5 °C to +50 °C |
| CX-FB-OS2B-04-IN-DROP-LSZH | 1000 N / 500 N per 100 mm | 15 mm / 30 mm | -5 °C to +50 °C |
| CX-FB-OS2B-01-OD-DROP-FRP | — | 30 mm / 60 mm | -10 °C to +60 °C |
| CX-FB-OS2B-02-OD-DROP-FRP | — | 30 mm / 60 mm | -10 °C to +60 °C |

| Part number | Fiber color code |
|---|---|
| CX-FB-OS2B-01-IN-DROP-LSZH | Blue, Orange, Green, Brown |
| CX-FB-OS2B-02-IN-DROP-LSZH | Blue, Orange, Green, Brown |
| CX-FB-OS2B-04-IN-DROP-LSZH | Blue, Orange, Green, Brown |
| CX-FB-OS2B-01-OD-DROP-FRP | — |
| CX-FB-OS2B-02-OD-DROP-FRP | — |

## Performance

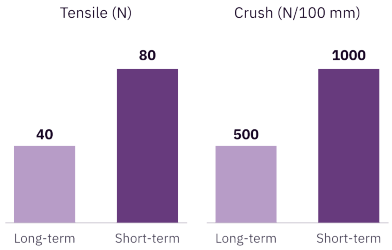
Shown for CX-FB-OS2B-01-IN-DROP-LSZH

## ATTENUATION PERFORMANCE

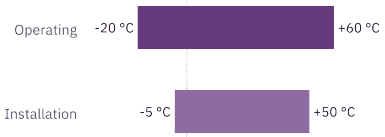



Maximum cabled attenuation per operating window.

## MECHANICAL PERFORMANCE




## TEMPERATURE RANGE




## FACTORY TEST REPORT — SUPPLIED WITH EVERY DRUM

OTDR TESTED 100%

| Test item | Requirement | Method |
|---|---|---|
| attenuation @ 1310 / 1550 nm | 0.36 / 0.22 dB/km | OTDR, per fiber |
| Cable length | As ordered, verified | OTDR |
| Sheath, marking, appearance | No defects | Visual |

Every drum is tested fiber-by-fiber before shipment and supplied with its OTDR test report and drum label (type, length, drum no., batch).

## Request a quote or technical support

Datasheets, test reports and samples available on request

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