CORNIX

PRODUCT DATASHEET

CNX-DS-F05-007 · REV 1.0 · 06 OCTOBER 2026

FIBER OPTIC CABLE · OS2 SINGLE-MODE INDOOR FIBER CABLE

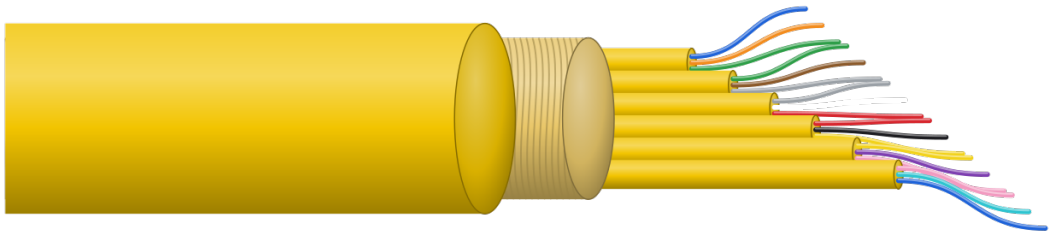
OS2 Single-Mode Indoor Fiber Cable, 48F, LSZH

SINGLE-MODE · G.652.D · TIGHT-BUFFERED · LSZH JACKET

PART NO. **CX-FB-OS2-48-IN-LSZH**

Also marked on products / QR labels as: CX-FC-SM-IN-48-LSZH

PRODUCT ILLUSTRATION



48	0.36 dB/km	14.8 ± 0.5 mm	1000 N
FIBER COUNT	ATTENUATION @ 1310 NM	CABLE OUTER DIAMETER	TENSILE LOAD SHORT TERM

OVERVIEW

Tight-buffered single-mode distribution cable developed for indoor backbone and horizontal fiber runs, riser pathways and equipment-room interconnects. The 900 µm buffered fibers are designed to support direct connectorization and field termination where applicable.

- 900 µm tight-buffered fibers for direct connectorization
- LSZH jacket for occupied indoor spaces
- Aramid yarn strength member for safe pulling
- ITU-T G.652.D low-water-peak single-mode fiber
- Color-coded fibers for fast identification

APPLICATIONS

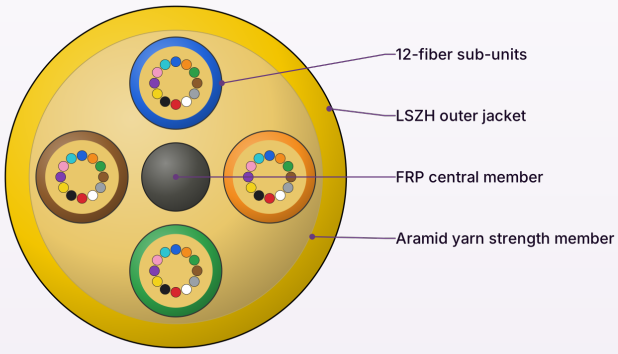
- Building backbone and riser links
- Telecommunications rooms and data centers
- Direct connectorization / field termination

STANDARDS & COMPLIANCE

ITU-T G.652.D · IEC 60793 · IEC 60794 · ANSI/TIA-568.3-D · IEC 60332-1 · RoHS compliant

Technical Specifications

OS2 Single-Mode Indoor Fiber Cable, 48F, LSZH · CX-FB-OS2-48-IN-LSZH



CROSS-SECTION (ILLUSTRATIVE, NOT TO SCALE)

GENERAL

Fiber count	**48**

CONSTRUCTION

Jacket material	**LSZH**
Construction	**Tight-buffered multi-subunit cable**
Tight buffer	**900 µm**
Strength member	**Aramid yarn + FRP central member**
Jacket color	**Yellow**

OPTICAL CHARACTERISTICS

Fiber type	**Single-mode 9/125 µm, ITU-T G. 652.D (OS2)**
Max. attenuation @ 1310 nm	**0.36 dB/km**
Max. attenuation @ 1550 nm	**0.22 dB/km**

MECHANICAL

Tensile load — short term	**1000 N**
Tensile load — long term	**300 N**
Crush resistance	**1320 N/100 mm**
Min. bend radius — static / dynamic	**10 × OD / 20 × OD**

PHYSICAL

Cable outer diameter	**14.8 ± 0.5 mm**
Cable weight (approx.)	**184 kg/km**

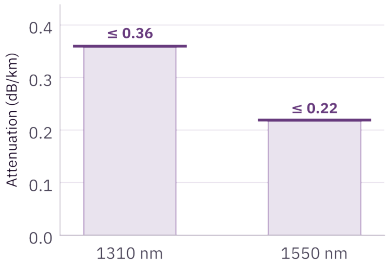
ENVIRONMENTAL

Operating temperature	**-20 °C to +60 °C**
Installation temperature	**-5 °C to +50 °C**
Storage temperature	**-20 °C to +60 °C**

Performance, Quality & Ordering

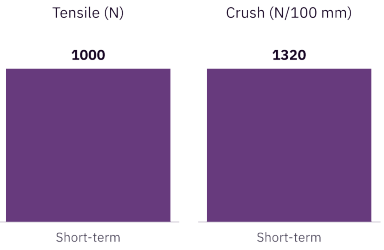
CX-FB-OS2-48-IN-LSZH

ATTENUATION PERFORMANCE

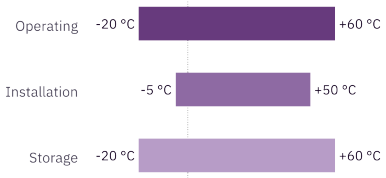


Maximum cabled attenuation per operating window.

MECHANICAL PERFORMANCE



TEMPERATURE RANGE



FACTORY TEST REPORT — SUPPLIED WITH EVERY DRUM

OTDR TESTED 100%

Test item	Requirement	Method
attenuation @ 1310 nm	0.36 dB/km	OTDR, per fiber
attenuation @ 1550 nm	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).

ORDERING INFORMATION

CX	FB	OS2	48	IN	LSZH
CORNIX	Fiber cable	Single-mode G.652.D	48 fibers	Indoor	LSZH jacket

Part number	Description
CX-FB-OS2-04-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 4F, LSZH
CX-FB-OS2-06-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 6F, LSZH
CX-FB-OS2-08-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 8F, LSZH
CX-FB-OS2-12-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 12F, LSZH
CX-FB-OS2-24-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 24F, LSZH
CX-FB-OS2-48-IN-LSZH	**OS2 Single-Mode Indoor Fiber Cable, 48F, LSZH**
CX-FB-OS2-96-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 96F, LSZH

8 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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