

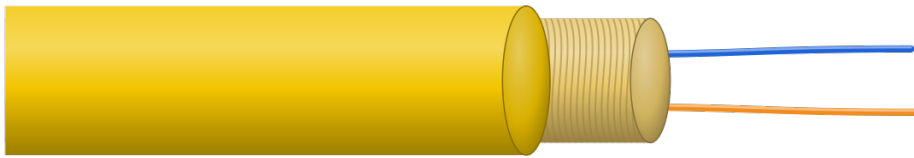
FIBER OPTIC CABLE

OS2 Single-Mode Indoor Fiber Cable

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

FAMILY **F5** · 8 PART NUMBERS

SHOWN: CX-FB-OS2-02-IN-LSZH

**2**

FIBER COUNT

0.36 dB/km

ATTENUATION @ 1310 NM

3.2 mm

CABLE OUTER DIAMETER

660 N

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

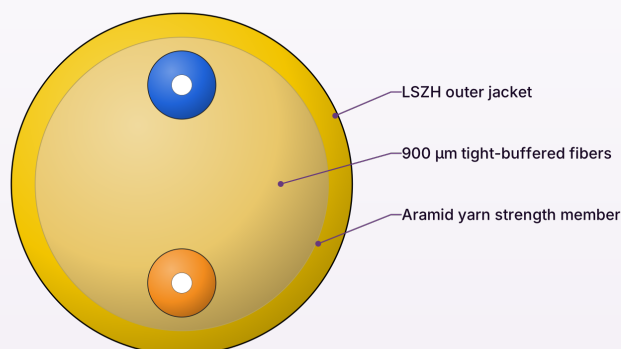
ANSI/TIA-568.3-D

IEC 60332-1

RoHS compliant

Common Specifications

Values shared by all 8 part numbers in this family · variant-specific values on the following page



CROSS-SECTION (ILLUSTRATIVE, NOT TO SCALE) — SHOWN FOR CX-FB-OS2-02-IN-LSZH

CONSTRUCTION

Jacket material	LSZH
Tight buffer	900 µm
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

Min. bend radius — static / dynamic	10 × OD / 20 × OD
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ENVIRONMENTAL

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

Ordering Information

8 part numbers · individual datasheets available for every part number

Part number	Description	Fiber count	Fiber	Jacket	Environment
Distribution cable (up to 24 fibers)					
CX-FB-0S2-02-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 2F, LSZH	2	OS2 / G.652.D	LSZH	Indoor
CX-FB-0S2-04-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 4F, LSZH	4	OS2 / G.652.D	LSZH	Indoor
CX-FB-0S2-06-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 6F, LSZH	6	OS2 / G.652.D	LSZH	Indoor
CX-FB-0S2-08-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 8F, LSZH	8	OS2 / G.652.D	LSZH	Indoor
CX-FB-0S2-12-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 12F, LSZH	12	OS2 / G.652.D	LSZH	Indoor
CX-FB-0S2-24-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 24F, LSZH	24	OS2 / G.652.D	LSZH	Indoor
Multi-subunit cable (above 24 fibers)					
CX-FB-0S2-48-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 48F, LSZH	48	OS2 / G.652.D	LSZH	Indoor
CX-FB-0S2-96-IN-LSZH	OS2 Single-Mode Indoor Fiber Cable, 96F, LSZH	96	OS2 / G.652.D	LSZH	Indoor

Variant-Specific Specifications

Values that differ between part numbers

Part number	Construction	Strength member	Cable outer diameter
CX-FB-0S2-02-IN-LSZH	Tight-buffered distribution cable	Aramid yarn	3.2 mm
CX-FB-0S2-04-IN-LSZH	Tight-buffered distribution cable	Aramid yarn	4.8 mm
CX-FB-0S2-06-IN-LSZH	Tight-buffered distribution cable	Aramid yarn	5.1 mm
CX-FB-0S2-08-IN-LSZH	Tight-buffered distribution cable	Aramid yarn	5.6 mm
CX-FB-0S2-12-IN-LSZH	Tight-buffered distribution cable	Aramid yarn	6.2 mm
CX-FB-0S2-24-IN-LSZH	Tight-buffered distribution cable	Aramid yarn	8.2 mm
CX-FB-0S2-48-IN-LSZH	Tight-buffered multi-subunit cable	Aramid yarn + FRP central member	14.8 ± 0.5 mm
CX-FB-0S2-96-IN-LSZH	Tight-buffered multi-subunit cable	Aramid yarn + FRP central member	20.7 ± 0.5 mm

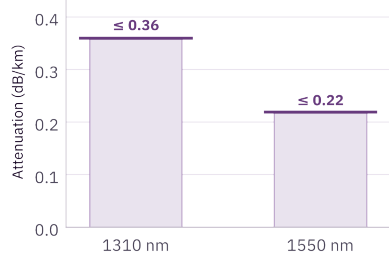
Part number	Cable weight (approx.)	Tensile load — short term	Tensile load — long term
CX-FB-0S2-02-IN-LSZH	10 kg/km	660 N	200 N
CX-FB-0S2-04-IN-LSZH	18 kg/km	660 N	200 N
CX-FB-0S2-06-IN-LSZH	22.5 kg/km	660 N	200 N
CX-FB-0S2-08-IN-LSZH	28 kg/km	660 N	200 N
CX-FB-0S2-12-IN-LSZH	38 kg/km	660 N	200 N
CX-FB-0S2-24-IN-LSZH	63 kg/km	1320 N	200 N
CX-FB-0S2-48-IN-LSZH	184 kg/km	1000 N	300 N
CX-FB-0S2-96-IN-LSZH	391 kg/km	1000 N	300 N

Part number	Crush resistance
CX-FB-0S2-02-IN-LSZH	1000 N/100 mm
CX-FB-0S2-04-IN-LSZH	1000 N/100 mm
CX-FB-0S2-06-IN-LSZH	1000 N/100 mm
CX-FB-0S2-08-IN-LSZH	1000 N/100 mm
CX-FB-0S2-12-IN-LSZH	1000 N/100 mm
CX-FB-0S2-24-IN-LSZH	1320 N/100 mm
CX-FB-0S2-48-IN-LSZH	1320 N/100 mm
CX-FB-0S2-96-IN-LSZH	1320 N/100 mm

Performance

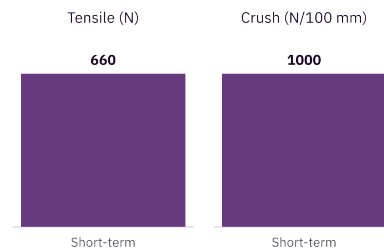
Shown for CX-FB-OS2-02-IN-LSZH

ATTENUATION PERFORMANCE

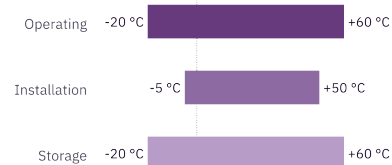


Maximum cabled attenuation per operating window.

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).

Request a quote or technical support

Datasheets, test reports and samples available on request

rfq@cornixglobal.com
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cornixglobal.com

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