

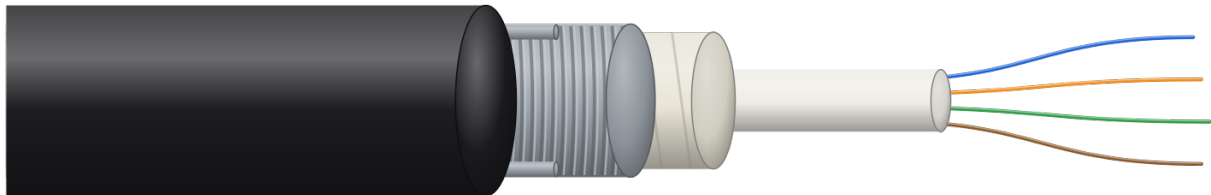
FIBER OPTIC CABLE

OS2 Single-Mode Outdoor Fiber Cable

SINGLE-MODE · G.652.D · LOOSE TUBE · DUCT & ARMORED

 FAMILY **F6** · 13 PART NUMBERS

SHOWN: CX-FB-OS2-04-OD-ARM


4

FIBER COUNT

0.35 dB/km

 ATTENUATION @ 1310 NM
(CABLED)

7.0 – 7.3 mm

CABLE OUTER DIAMETER

600 N / 1500 N

 TENSILE LOAD LONG / SHORT
TERM

OVERVIEW

Loose-tube single-mode cable developed for outside-plant routes between buildings, campus backbones and access networks. Non-armored PE versions are designed for duct installation; steel-tape armored versions add mechanical and rodent protection for direct-buried and demanding routes where applicable.

- ✓ ITU-T G.652.D single-mode fiber in gel-filled loose tubes
- ✓ Corrugated steel tape armor for crush and rodent protection (ARM)
- ✓ HDPE / PE outer sheath for outdoor duct and direct-buried routes
- ✓ Factory meter marking every 1 m
- ✓ OTDR test report supplied with every drum

APPLICATIONS

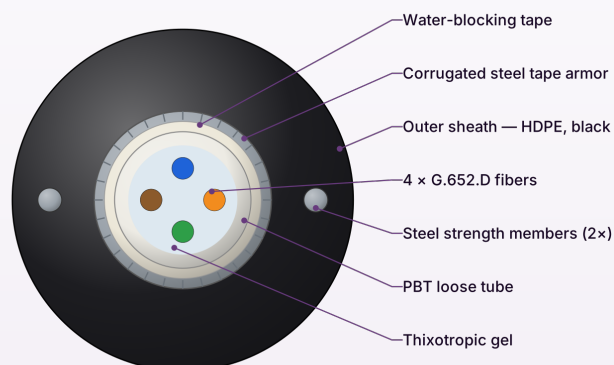
- Campus and inter-building backbones
- Duct and conduit installation
- Armored versions for direct-buried and rodent-exposed routes

STANDARDS & COMPLIANCE

ITU-T G.652.D IEC 60793 IEC 60794 RoHS compliant

Common Specifications

Values shared by all 13 part numbers in this family · variant-specific values on the following page



CROSS-SECTION (ILLUSTRATIVE, NOT TO SCALE) — SHOWN FOR CX-FB-OS2-04-OD-ARM

CONSTRUCTION

Jacket color	Black
--------------	--------------

OPTICAL CHARACTERISTICS

Fiber type	Single-mode 9/125 μm, ITU-T G. 652.D (OS2)
------------	---

MECHANICAL

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

Ordering Information

13 part numbers · individual datasheets available for every part number

Part number	Description	Fiber count	Construction	Sheath	Environment
Armored — central loose tube (GYXTW type)					
CX-FB-0S2-04-0D-ARM	OS2 Single-Mode Outdoor Armored Fiber Cable, 4F (central loose tube, GYXTW type)	4	Central loose tube, steel-tape armored	HDPE, black	Outdoor
CX-FB-0S2-08-0D-ARM	OS2 Single-Mode Outdoor Armored Fiber Cable, 8F (central loose tube, GYXTW type)	8	Central loose tube, steel-tape armored	HDPE, black	Outdoor
CX-FB-0S2-12-0D-ARM	OS2 Single-Mode Outdoor Armored Fiber Cable, 12F (central loose tube, GYXTW type)	12	Central loose tube, steel-tape armored	HDPE, black	Outdoor
CX-FB-0S2-24-0D-ARM	OS2 Single-Mode Outdoor Armored Fiber Cable, 24F (central loose tube, GYXTW type)	24	Central loose tube, steel-tape armored	HDPE, black	Outdoor
Armored — stranded loose tube					
CX-FB-0S2-48-0D-ARM	OS2 Single-Mode Outdoor Armored Fiber Cable, 48F (stranded loose tube, GYTS type)	48	Stranded loose tube, steel-tape armored	PE, black	Outdoor
CX-FB-0S2-96-0D-ARM	OS2 Single-Mode Outdoor Armored Fiber Cable, 96F (stranded loose tube, GYTS type)	96	Stranded loose tube, steel-tape armored	PE, black	Outdoor
Non-armored duct cable (PE)					
CX-FB-0S2-04-0D-PE	OS2 Single-Mode Outdoor Duct Fiber Cable (GYFTY), 4F, PE	4	Stranded loose tube, non-armored	PE	Outdoor / duct
CX-FB-0S2-06-0D-PE	OS2 Single-Mode Outdoor Duct Fiber Cable (GYFTY), 6F, PE	6	Stranded loose tube, non-armored	PE	Outdoor / duct
CX-FB-0S2-12-0D-PE	OS2 Single-Mode Outdoor Duct Fiber Cable (GYFTY), 12F, PE	12	Stranded loose tube, non-armored	PE	Outdoor / duct
CX-FB-0S2-24-0D-PE	OS2 Single-Mode Outdoor Duct Fiber Cable (GYFTY), 24F, PE	24	Stranded loose tube, non-armored	PE	Outdoor / duct
CX-FB-0S2-48-0D-PE	OS2 Single-Mode Outdoor Duct Fiber Cable (GYFTY), 48F, PE	48	Stranded loose tube, non-armored	PE	Outdoor / duct
CX-FB-0S2-96-0D-PE	OS2 Single-Mode Outdoor Duct Fiber Cable (GYFTY), 96F, PE	96	Stranded loose tube, non-armored	PE	Outdoor / duct
CX-FB-0S2-144-0D-PE	OS2 Single-Mode Outdoor Duct Fiber Cable (GYFTY), 144F, PE	144	Stranded loose tube, non-armored	PE	Outdoor / duct

Variant-Specific Specifications

Values that differ between part numbers

Part number	Cable type	Loose tube	Strength members
CX-FB-0S2-04-0D-ARM	GYXTW-4B1.3 — central loose tube, armored	PBT, natural, $\varnothing 1.8 \pm 0.1$ mm, filled with thixotropic gel	2 × 1.0 mm phosphated steel wires
CX-FB-0S2-08-0D-ARM	GYXTW-8B1.3 — central loose tube, armored	PBT, natural, $\varnothing 1.8 \pm 0.1$ mm, filled with thixotropic gel	2 × 1.0 mm phosphated steel wires
CX-FB-0S2-12-0D-ARM	GYXTW-12B1.3 — central loose tube, armored	PBT, natural, $\varnothing 2.4 \pm 0.1$ mm, filled with thixotropic gel	2 × 1.0 mm phosphated steel wires
CX-FB-0S2-24-0D-ARM	GYXTW-24B1.3 — central loose tube, armored	PBT, natural, $\varnothing 2.4 \pm 0.1$ mm, filled with thixotropic gel	2 × 1.0 mm phosphated steel wires
CX-FB-0S2-48-0D-ARM	GYTS — stranded loose tube, steel-tape armored	—	—
CX-FB-0S2-96-0D-ARM	GYTS — stranded loose tube, steel-tape armored	—	—
CX-FB-0S2-04-0D-PE	GYFTY — stranded loose tube, non-metallic	—	—
CX-FB-0S2-06-0D-PE	GYFTY — stranded loose tube, non-metallic	—	—
CX-FB-0S2-12-0D-PE	GYFTY — stranded loose tube, non-metallic	—	—

Part number	Cable type	Loose tube	Strength members
CX-FB-0S2-24-0D-PE	GYFTY — stranded loose tube, non-metallic	—	—
CX-FB-0S2-48-0D-PE	GYFTY — stranded loose tube, non-metallic	—	—
CX-FB-0S2-96-0D-PE	GYFTY — stranded loose tube, non-metallic	—	—
CX-FB-0S2-144-0D-PE	GYFTY — stranded loose tube, non-metallic	—	—

Part number	Water blocking	Aarmor	Outer sheath
CX-FB-0S2-04-0D-ARM	Water-blocking tape	Corrugated steel tape	HDPE, black; thickness 2.2 ± 0.1 mm
CX-FB-0S2-08-0D-ARM	Water-blocking tape	Corrugated steel tape	HDPE, black; thickness 2.2 ± 0.1 mm
CX-FB-0S2-12-0D-ARM	Water-blocking tape	Corrugated steel tape	HDPE, black; thickness 3.0 ± 0.1 mm
CX-FB-0S2-24-0D-ARM	Water-blocking tape	Corrugated steel tape	HDPE, black; thickness 3.0 ± 0.1 mm
CX-FB-0S2-48-0D-ARM	—	Corrugated steel tape	PE, black
CX-FB-0S2-96-0D-ARM	—	Corrugated steel tape	PE, black
CX-FB-0S2-04-0D-PE	—	—	—
CX-FB-0S2-06-0D-PE	—	—	—
CX-FB-0S2-12-0D-PE	—	—	—
CX-FB-0S2-24-0D-PE	—	—	—
CX-FB-0S2-48-0D-PE	—	—	—
CX-FB-0S2-96-0D-PE	—	—	—
CX-FB-0S2-144-0D-PE	—	—	—

Part number	Identification stripe	Fiber color sequence	Cable outer diameter
CX-FB-0S2-04-0D-ARM	None	Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua	7.0 – 7.3 mm
CX-FB-0S2-08-0D-ARM	—	Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua	7.0 – 7.3 mm
CX-FB-0S2-12-0D-ARM	Violet	Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua	10.0 ± 0.3 mm
CX-FB-0S2-24-0D-ARM	Yellow	Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua	10.0 ± 0.3 mm
CX-FB-0S2-48-0D-ARM	—	—	10.2 ± 0.5 mm
CX-FB-0S2-96-0D-ARM	—	—	12.6 ± 0.5 mm
CX-FB-0S2-04-0D-PE	—	—	11.0 ± 0.5 mm
CX-FB-0S2-06-0D-PE	—	—	11.0 ± 0.5 mm
CX-FB-0S2-12-0D-PE	—	—	11.0 ± 0.5 mm
CX-FB-0S2-24-0D-PE	—	—	11.0 ± 0.5 mm
CX-FB-0S2-48-0D-PE	—	—	11.7 ± 0.5 mm
CX-FB-0S2-96-0D-PE	—	—	13.4 ± 0.5 mm
CX-FB-0S2-144-0D-PE	—	—	16.1 ± 0.5 mm

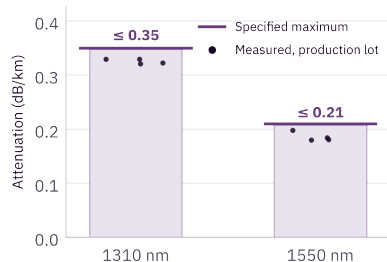
Part number	Cable weight	Max. attenuation @ 1310 nm (cabled)	Max. attenuation @ 1550 nm (cabled)
CX-FB-0S2-04-0D-ARM	approx. 56.0 kg/km	0.35 dB/km	0.21 dB/km
CX-FB-0S2-08-0D-ARM	approx. 56.0 kg/km	0.35 dB/km	0.21 dB/km
CX-FB-0S2-12-0D-ARM	approx. 91.0 kg/km	0.35 dB/km	0.21 dB/km
CX-FB-0S2-24-0D-ARM	approx. 91.0 kg/km	0.35 dB/km	0.21 dB/km
CX-FB-0S2-48-0D-ARM	—	—	—
CX-FB-0S2-96-0D-ARM	—	—	—
CX-FB-0S2-04-0D-PE	—	—	—
CX-FB-0S2-06-0D-PE	—	—	—

Part number	Cable weight	Max. attenuation @ 1310 nm (cabled)	Max. attenuation @ 1550 nm (cabled)
CX-FB-OS2-12-0D-PE	—	—	—
CX-FB-OS2-24-0D-PE	—	—	—
CX-FB-OS2-48-0D-PE	—	—	—
CX-FB-OS2-96-0D-PE	—	—	—
CX-FB-OS2-144-0D-PE	—	—	—

Performance

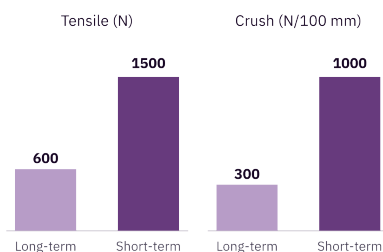
Shown for CX-FB-OS2-04-OD-ARM

ATTENUATION PERFORMANCE

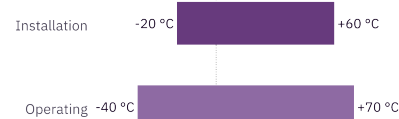


Measured values: production lot May 2026, every fiber tested (GYXTW-4B1.3).

MECHANICAL PERFORMANCE



TEMPERATURE RANGE



PRODUCTION TEST REPORT — GYXTW-4B1.3, DRUM LENGTH 4,000 M, 4 FIBERS TESTED (MAY 2026)

OTDR TESTED 100%	Test item	Requirement	Min	Avg	Max	Result
	Attenuation @ 1310 nm (dB/km)	≤ 0.35	0.321	0.326	0.330	PASS
	Attenuation @ 1550 nm (dB/km)	≤ 0.21	0.180	0.186	0.198	PASS
	Sheath, ID marking, appearance, packing	Visual	Inspected			PASS

Every drum ships with its own OTDR test report sealed in a weatherproof pouch, with sequential meter marking every 1 m.

Request a quote or technical support

Datasheets, test reports and samples available on request

rfq@cornixglobal.com
 sales@cornixglobal.com
 cornixglobal.com

CORNIX® continuously improves its products; specifications are subject to change without notice. Values are maximum / minimum unless stated otherwise. Illustrations are representative. © 2026 CORNIX LLC. All rights reserved.