CORNIX

PRODUCT DATASHEET

CNX-DS-F82-001 · REV 1.0 · 06 OCTOBER 2026

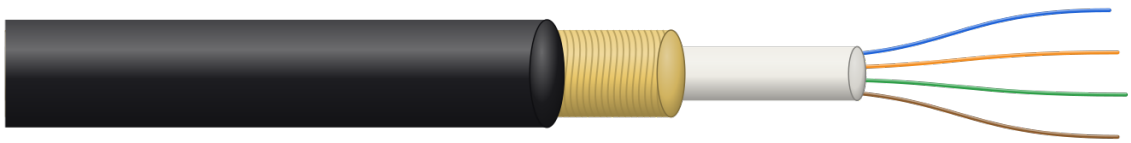
FIBER OPTIC CABLE · AIR-BLOWN MICRO-DUCT FIBER CABLE

Air-Blown Micro-Duct Fiber Cable, 4F, G.657.A1 (GCYFXTY-4C)

SINGLE-MODE · G.657.A1 · MICRO-DUCT · AIR-BLOWN INSTALLATION

PART NO. **CX-FB-OS2B-04-OD-ABF**

PRODUCT ILLUSTRATION



4	0.35 / 0.21 dB/km	3.8 ± 0.2 mm	32 N / 108 N
FIBER COUNT	ATTENUATION @ 1310 / 1550 NM	CABLE OUTER DIAMETER	TENSILE LOAD LONG / SHORT TERM

OVERVIEW

Lightweight micro-duct optical cable developed for installation by air blowing into micro-duct systems. The small diameter and low weight support long blowing distances, staged network build-out and high fiber density in congested duct routes.

- Micro-duct cable for air-blown installation
- Bend-insensitive ITU-T G.657.A1 fiber
- Ultra-small 3.8 mm diameter, 11 kg/km
- Gel-filled PBT loose tube
- HDPE sheath for long blowing distances

APPLICATIONS

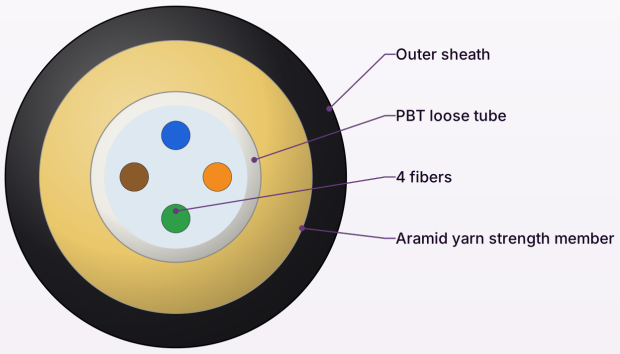
- FTTx micro-duct networks
- Campus and city micro-duct routes
- Staged and future-proof duct installations

STANDARDS & COMPLIANCE

ITU-T G.657.A1 · IEC 60793 · IEC 60794 · RoHS compliant

Technical Specifications

Air-Blown Micro-Duct Fiber Cable, 4F, G.657.A1 (GCYFXTY-4C) · CX-FB-OS2B-04-OD-ABF



CROSS-SECTION (ILLUSTRATIVE, NOT TO SCALE)

GENERAL

Fiber count	**4**

CONSTRUCTION

Cable type	**GCYFXTY — micro-duct, air-blown**
Loose tube	**PBT, natural, Ø 2.5 ± 0.1 mm, gel-filled**
Water blocking	**Water-blocking yarn**
Strength member	**Aramid yarn**
Ripcord	**Red, 1 pc**
Outer sheath	**HDPE, black; thickness 0.5 ± 0.05 mm**
Fiber color sequence	**Blue, Orange, Green, Brown**

OPTICAL CHARACTERISTICS

Fiber type	**Single-mode, ITU-T G.657.A1 (bend-insensitive)**
Max. attenuation @ 1310 / 1550 nm	**0.35 / 0.21 dB/km**
Mode field diameter @ 1310 / 1550 nm	**8.6 – 9.4 µm / 9.5 – 10.5 µm**
Cable cut-off wavelength	**≤ 1260 nm**
Macrobend loss (10 turns, 15 mm, 1550 nm)	**≤ 0.25 dB**

MECHANICAL

Tensile load — long / short term	**32 N / 108 N**
Crush resistance — long / short term	**150 N/100 mm / 450 N/100 mm**
Min. bend radius — static / dynamic	**12.5 × OD / 20 × OD**

PHYSICAL

Cable outer diameter	**3.8 ± 0.2 mm**
Cable weight	**approx. 11.0 kg/km**

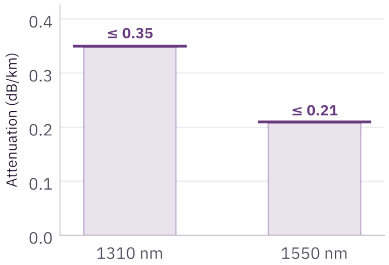
ENVIRONMENTAL

Installation temperature	**-20 °C to +50 °C**
Operating temperature	**-40 °C to +60 °C**

Performance, Quality & Ordering

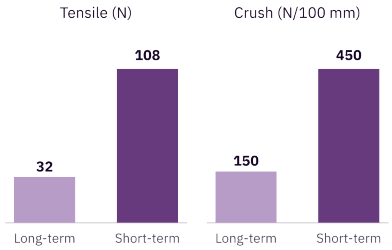
CX-FB-OS2B-04-OD-ABF

ATTENUATION PERFORMANCE

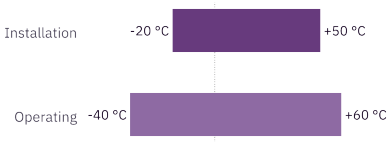


Maximum cabled attenuation per operating window.

MECHANICAL PERFORMANCE



TEMPERATURE RANGE



FACTORY TEST REPORT — SUPPLIED WITH EVERY DRUM

OTDR TESTED 100%

Test item	Requirement	Method
attenuation @ 1310 / 1550 nm	0.35 / 0.21 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	OS2B	04	OD	ABF
CORNIX	Fiber cable	Single-mode G.657.A	4 fibers	Outdoor	Air-blown micro-duct

Part number	Description
CX-FB-OS2B-04-OD-ABF	Air-Blown Micro-Duct Fiber Cable, 4F, G.657.A1 (GCYFXTY-4C)

Request a quote or technical support

Datasheets, test reports and samples available on request

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