

MICRO INDOOR LOW FRICTION OPTICAL CABLE (CFOI-BLI-CM-BA)



Construction	<ul style="list-style-type: none"> • ROHS Compliant; • Low friction; • Non dielectric;
Description	Compact dimensions cable with outer jacket made up of low friction material. The strength material is made up of 2 steel wires that can be used to push the cable through ducts.
Application	Developed specially for internal installations in FTTH and FTTA networks.
Installation Environment	Indoor
Operation Environment	Indoor network

Standard	<ul style="list-style-type: none"> • ITU-T G 657; • ANATEL - Lista de Requisitos Técnicos para Produtos de Telecomunicações Categoria I (CompactFiber OpticCableforInternal Installation). • EN 60332-1-2: "Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame"; • EN 61034-2: "Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements"; • EN 50399: "Common test method for cables under fire conditions. Heat release and smoke production measurement on cables during flame spread test. Test apparatus, procedures, results"; • EN 50267-2-3: "Common test method for cables under fire conditions. Test on gases evolved during combustion of materials from cables. Procedures. Determination of degree of acidity of gases for cables by determination of the weighted average of pH and conductivity";
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Standard	Requirement	Limit
EN 50399	Total Heat Release	≤ 70 MJ
	Peak Heat Release Rate	≤ 400 kW

	Fire index growth rate	≤ 1300 W/s
EN 60332-1-2	Height	≤ 425 mm

Certifications	ANATEL
Outer Jacket	Low friction thermoplastic material, flame retardant, LSZH (low smoke zero halogen).
Cable Flammability Rating	LSZH
Strength member	Two steel wires with 0.5 mm nominal diameter.
Fiber Type	Single mode BLI - A/B (<i>bending loss insensitive</i>)
Fiber Coating	Acrylate
Number of fibers	02
Fiber Identification	Fiber <ol style="list-style-type: none"> 1. Blue; 2. Blue and orange;
Dimension	1 Fiber <ul style="list-style-type: none"> • $1.6 \pm 0.16 \times 2.0 \pm 0.20$ 2 Fibers <ul style="list-style-type: none"> • $1.6 \pm 0.16 \times 2.3 \pm 0.23$
Nominal mass	1 Fiber <ul style="list-style-type: none"> • 7.3 kg/km 2 Fibers <ul style="list-style-type: none"> • 7.73 kg/km
Minimum radius of curvature during intallation	30 mm
	15 mm

Minimu curvature
radius during
operation

Operation Temperature (°C) -10 to +40 °C

Installation Temperature (°C) -10 to +40 °C

Storage Temperature (°C) -10 to +40 °C

Mechanical and
Environmental
Characteristics

Test	Type	Procedures	Singlemode Fibers
Mechanical	Tensile Strength	230 N	Maximum: 0.6% Tensioned 0.2% Rest
	Compressive Strenght	480 N/cm	≤ 0.4 dB
	Twist	10 cycles	≤ 0.4 dB
	Cyclic Flexing	25 cycles x 2 kgf (30 mm)	≤ 0.4 dB
	Bending	5 turns	≤ 0.4 dB
	Dynamic Friction Coefficient*	Weight 2.0 kg	≤ 0.125

* The dynamic friction coefficient is defined, in accordance to ANATEL Standarts for Compact Optical FiberCableforInternal Installation, as:

$$\mu = Ft/(2*Fo)$$

Where:

μ = Dynamic friction coefficient

Ft = Slip force [N]

Fo = Compression loadstrength [N]

Marking

FURUKAWA CFOI-BLI-CM-xx-BA-LSZH ZZ EUROCLASS Dca (s1a, d1, a1) mm/yyyy LOTE nL
 YAAMMDDHHmm (**)

Where:

xx Number of fibers (01 or 02)

ZZ "A1" (For G657-A1 optical fiber) or
 "A2" (For G657-A2 optical fiber)

mm/yyyy Date of manufacturing

nL Batch number

YAAMMDDHHmm Traceability
 (Y=Manufacturing Process; AA=Year; MM=Month;
 DD=Day; HH=Hour; mm=Minute)

	(**) Length marking in meters (xxxxm)
Package Type	RIB or Wood reel
Package Nominal Dimensional	RIB = 340x350x250 mm (+-3 mm) Wood reel = Outer diameter: 350 mm / Internal diameter: 220 mm / Central hole diameter: 80 mm
Standard Length	500 m (RIB) 1000 m (RIB) 1000 m (Wood reel)

[Part Numbers](#)