



## MICRO INDOOR LOW FRICTION OPTICAL CABLE (CFOI-BLI-A/B-CM-BA-LSZH) - ABNT

Construction	ROHS Compliant Low friction Non dielectric
Description	Cable with compact dimensions and low friction external sheath. Specially developed for internal instalations such as FTTH and MDU networks. Steel wires are used as strength members, which allow the cable be pushed or pulled through ducts.
Application	Developed specially for internal installations in FTTH and MDU networks.
Installation Environment	Indoor.
Operation Environment	Indoor networks.
Standard	<ul style="list-style-type: none"> <li>• ITU-T G 657;</li> <li>• ANATEL - Lista de Requisitos Técnicos para Produtos de Telecomunicações Categoria I (CompactFiber OpticCableforInternal Installation).</li> </ul>
Certifications	ANATEL.
Optical Characteristics	According to Furukawa technical specification ET2000.
Fiber Coating	Optical fiber with an acrylate coating.
Fiber Identification	<b>Fiber:</b> <ol style="list-style-type: none"> <li>1. Green;</li> <li>2. Yellow.</li> </ol>
Strength member	Two steel wires with 0.5 mm nominal diameter.
Outer Jacket	Low friction thermoplastic material, flame retardant, LSZH (low smoke zero halogen).
Cable Flammability Rating	Flame retardant material with low smoke emition and free halogen (LSZH - low smoke zero halogen).
Dimension	<ul style="list-style-type: none"> <li>• 1 Fiber:                             <ul style="list-style-type: none"> <li>• <math>1,6 \pm 0,16 \times 2,0 \pm 0,20</math>;</li> </ul> </li> </ul>

- 2 Fibers:
  - $1,6 \pm 0,16 \times 2,3 \pm 0,23$ ;

Nominal mass	7,73 kg/km.
Minimum radius of curvature during intallation	30 mm.
Minimum curvature radius during operation	15 mm.

Mechanical and Environmental Characteristics	Requirement	Methodology	Single mode fibers
	Tensile strength	230 N	Maximum: 0,6% tensioned 0,2% rest
	Compressive strength	480 N/cm	$\leq 0,4$ dB
	Twist	10 ciclos	$\leq 0,4$ dB
	Cyclic Flexing	25 ciclos x 2kgf (30 mm)	$\leq 0,4$ dB
	Bending	5 voltas	$\leq 0,4$ dB
	Dynamic Friction Coefficient	Massa 2,0 kg	$\leq 0,125$

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

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

Where:

$\mu$  = Dynamic friction coefficient

$Ft$  = Slip force [N]

$Fo$  = Compression loadstrength [N]

Maximum Tensile Load	230 N.
Installation Temperature (°C)	-10 to 40°C.
Operation Temperature (°C)	-10 to 40°C.
Storage Temperature (°C)	-10 to 40°C.

Marking **FURUKAWA CFOI-BLI-CM-xx-BA-LSZH ANATEL nANATEL YYYYYYYY-ZZ-WW MM/AA (\*\*)**

Where:

xx	Number of fibers
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nANATEL	Number of the ANATEL certificate
YYYYYYYY	Serial number
ZZ	Verificator number
WW	Bath
MM	Month of Manufacture
AA	Year of Manufactures
(**)	Length marking in meters (xxxxxm)

Package Type	RIB (Reel-In-Box).
Standard Length	500 or 1000 m ± 1% tolerance over the nominal length.
Package Nominal Dimensional	500 m: 250 x 255 x 215 mm. 1000 m: 340 x 250 x 350 mm

[Part Numbers](#)