



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

**Product Type** Optic Cable

**Construction**

ROHS Compliant
Low friction
Non dielectric

**Description**

Cable with compact dimensions and low friction external sheath. Specially developed for internal installations such as FTTH and FTTA networks. Steel wires are used as strength members, which allow the cable be pushed or pulled through ducts.

**Applications**

<b>Installation Environment</b>	Indoor
<b>Operation Environment</b>	Indoor network

**Standards Compliance**

- ITU-T G 657;
- ANATEL - Lista de Requisitos Técnicos para Produtos de Telecomunicações Categoria I (Compact Fiber Optic Cable for Internal Installation);
- EN 50399, EN 60332-1-2, EN 61034-2 and EN 50267-2-3.

**Certifications**

- ANATEL;
- Dca (s1, d1, a1).

**Optical Fiber**

Singlemode Bending Loss Insensitive - ITU-T G-657 A1 or A2.

**Fiber Coating**

Acrylate

**Fiber Identification**

Fiber	Colors
01F	Blue
02F	Blue and Orange

**Tensile Strength Yarns**

Two steel wires with 0.5 mm nominal diameter.

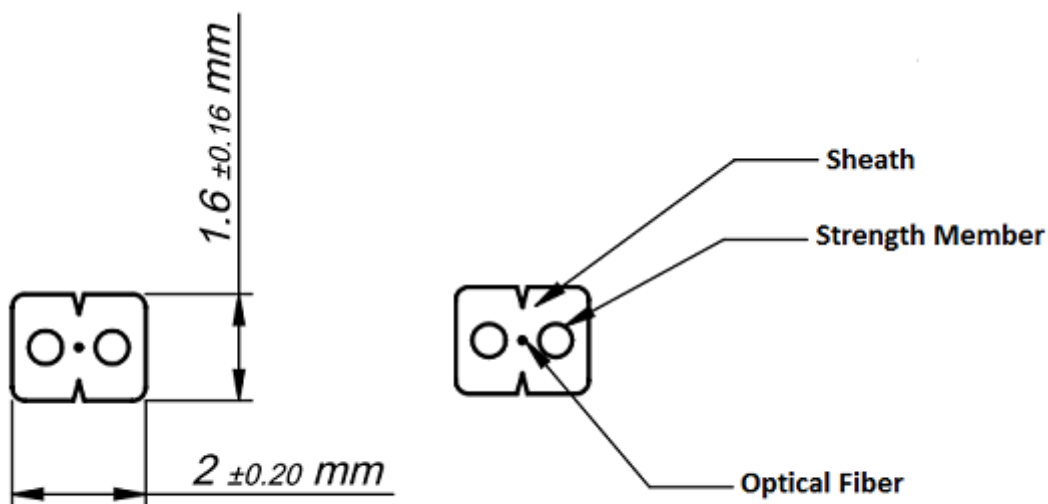
**Outer Jacket**

Low friction thermoplastic material, flame retardant, LSZH (low smoke zero halogen).

Dimension

CHARACTERISTIC	UNIT	VALUE	
Optical fiber count	fibers	1	2
Steel wire strength members nominal diameter	mm	0.5	0.5
Outer nominal dimensions	mm	1.6 ± 0.16 x 2.0 ± 0.20	1.6 ± 0.16 x 2.3 ± 0.23
Nominal weight	kg/km	7.3	7.73

Cross Section



**Micro Indoor Low Friction O1 Fiber**

Physical Characteristics

CHARACTERISTIC	UNIT	VALUE
Operation temperature	°C	-10 to +40
Installation temperature	°C	-10 to +40
Storage temperature	°C	-10 to +40
Minimum bend radius during installation	mm	30
Minimum bend radius during operation	mm	15
Maximum tensile load	N	230

**Mechanical and environmental characteristics**

Test	Type	Procedures	Singlemode Fibers
Mechanical	Tensile Strength	230 N	Maximum: 0.6% Tensioned 0.2% Rest
	Compressive Strength	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 Fiber Cable for Internal Installation, as:

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

Where:

$\mu$  = Dynamic friction coefficient

$Ft$  = Slip force [N]

$Fo$  = Compression load strength [N]

**Marking**

**FURUKAWA CFOI-BLI-CM-xx-BA-LSZH ZZ mm/yyyy LOTE nL YAAMMDHHmm (\*\*)**

Where:

<b>xx</b>	Number of fibers (01 or 02)
<b>ZZ</b>	"A1" (For G657-A1 optical fiber)
	"A2" (For G657-A2 optical fiber)
<b>mm/yyyy</b>	Date of manufacturing
<b>nL</b>	Batch number
<b>YAAMMDHHmm</b>	Traceability ( <b>Y</b> =Manufacturing Process; <b>AA</b> =Year; <b>MM</b> =Month; <b>DD</b> =Day; <b>HH</b> =Hour; <b>mm</b> =Minute)
<b>(**)</b>	Length marking in meters (xxxxm)

**Package**

<b>Package</b>	Reelex® box	RIB (Reel-In-a-Box)
<b>Length (m)</b>	1000	500
<b>Nominal Dimension (mm)</b>	310 x 310 x 250	250 x 255 x 215
<b>Gross Weight (kg)</b>	7.8	6.5