



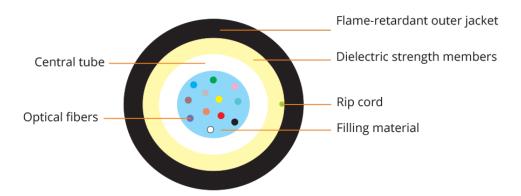
INDOOR/OUTDOOR CENTRAL TUBE **OPTICAL CABLE - OPTIC-LAN**

Construction	RoHS Compliant					
	Dielectric					
	Loose Tube					
Description	Optical cable constituted by a single central tube with 12 optical fibers maximum capacity.					
Installation Environment	Instalation	Outdoor (PE)				
	Environment	Indoor/Outdoor (OFNG and LSZH)				
	Operation	Underground Duct				
	Environment	Conduits and underground passage boxes				
Standard	access netw • ITU-T G-65	vork; 2 - Characteristics of 57 - Characteristics	of a 50/125 μm multimode graded index optical fibre cable for the optical a single-mode optical fibre and cable; of a bending-loss insensitive single-mode optical fibre and cable for the			
Optical Fiber	SM (Singlemode), E	BLI (Bending Loss Ins	sensitive), MM (Multimode) OM1, OM2, OM3 and OM4.			
Optical Characteristics	Fiber		Characteristics			
	Single mode		According to technical specification 2000 (Annex A)			
	Multi mode (OM1, OM2, OM3 and OM4)		According to technical specification 1999 (Annex B)			
Fiber Coating	Optical fiber with an	acrylate coating.				
Fiber Identification	Fiber		Color			
Tibel recitalisation	01		Blue			
	02		Orange			
	03		Green			
	04		Brown			
	05		Slate			
	06		White			
	07		Red			
	08		Black			
	09		Yellow			
	10		Violet			
			Diale			
	11 12		Pink Acqua			



Buffer Tube	The loose tubes are filled with a repellent compound that prevents the entrance and migration of humidity. These tubes must protect the fibers from mechanic efforts.		
Strength member	Dielectric fibers		
Rip Cord	One rip cord shall be included under the jackets.		
Outer Jacket	Black thermoplastic material,resistantto UVraysand weathering.		
Cable Flammability Rating	Cable Protection Grade	Marking	
	Not Flame Retardant	NR	
	Flame Retardant	RC	
	Optical Fiber Nonconductive General-Purpose (OFNG)	COG	
	Optical Cable with Low Smoke Zero Halogen Jacket (LSZH-3)	LSZH	

Cross Section



OPTIC-LAN 12 FIBERS

Physical Characteristics	Test	Requirement	Unity	Singlemode Fibers	Multimode Fibers
	Mechanical	Deformation caused by traction	Load: 1 x Weight of the	Maximum: 0.2% Pulled	
		•	cable (N)	0.05% At rest	
		Compression	Minimum 100 N/cm	≤ 0.1 dB	≤ 0.2 dB
		Alternated Flexion	50 cycles	≤ 0.1 dB	≤ 0.2 dB
		Torsion	10 cycles	≤ 0.1 dB	≤ 0.2 dB
		Bending	25 cycles x 2 kgf	≤ 0.1 dB	≤ 0.2 dB
		Impact	20 cyclesx 1,5 kgf	Must not present fibe	r rupture
	Environmental	Thermal cycle	-20 °C to +85 °C	≤ 0.1 dB/km	≤ 0.2 dB/km
		Water penetration	Water column 1 m x 1 h	Must not leak	



Dimension

CHARACTERISTIC	UNIT	TYPICAL VALUE
Optical Fiber Count	Fibers	2 to 12
Maximum Outer diameter	mm	5.7
Nominal Weight	kg/km	37

Mechanical and Environmental Characteristics

Radio Mínimo de Curvatura Durante la Instalación	mm	124
Radio Mínimo de Curvatura Después de Instalado	mm	62
Temperatura durante la operación	°C	-20 a +65
Carga durante la Instalación (máx.)	kgf	60

Marking

"FURUKAWA OPTIC-LAN x wF z k MONTH/YEAR LOTE nL (**)"

Where:

X = Type of optical fiber

SM For singlemode fibers

BLI For bending loss insensitive fibers

MM For multimode fibers

W = Fiber count

Z = Denomination for special fiber

 G-652D
 For SM ITU-T G.652.D fibers

 G-657A-1
 For SM BLI G.657.A1 fibers

 (62.5)
 For Multimode 62.5μm

 (50)
 For Mutimode 50μm

(50) OM3 For Multimode 50μm OM3 EIA/TIA 492AAAC fibers (50) OM4 For Multimode 50μm OM4 EIA/TIA 492AAAD fibers

K = Cable protection grade

Cable with normal polyethylene jacket - No marking

Cable with flame retardant jacket - RC

OFNG Cable - COG LSZH Cable - LSZH

MONTH/YEAR = Fabrication Date (MM/YYYY)

nL = Batch number

(**) = Length marking (xxxx m)

Package Type

Wooden reel





Standard Length

2100m

Tolerance ±5%.

Part Numbers

