OPTICAL CABLE FIBER-LAN-AR INDOOR_OUTDOOR - EXP

Construction

ROHS Compliant
Metallic armour against rodents
Tight buffer

Description

Optical cable constituted by optical fibers insulated in thermoplastic material. Dielectric yarns are applied over optical fibers for traction resistance and waterblocking yarns for humidity protection. This core is covered with a thermoplastic inner jacket and over that jacket a corrugated steel tape is applied for rodent protection. A flame retardant thermoplastic outer jacket covers this set.

Application

Installation Environment	Indoor / Outdoor
Operation Environment	Installation in conduits and boxes of underground passage susceptible to temporary partial flooding and interconnection between lobby rooms.

Standard

- ITU-T G 651
- ITU-T G 652

Optical Fiber

SM (Singlemode), 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.

Buffer Insulation

Flame retardant thermoplastic material, 900 microns outer diameter.

Fiber Identification

Fiber	Color
01	Blue
02	Orange
03	Green
04	Brown
05	Slate
06	White
07	Red
08	Black
09	Yellow

10	Violet
11	Pink
12	Acqua

Strength member

Dielectric yarns

Inner Jacket

Flame retardant thermoplastic material.

Minimal Rodent Protection Thickness

Corrugated steel tape applied longitudinally over the inner jacket. This tape aims to grant mechanical protection, particularly against compression and rodents.

Rip Cord

Rip cords shall be included below cable's inner jacket and below corrugated steel tape.

Outer Jacket

Flame retardant thermoplastic material.

Cable Flammability Rating

Cable protection grade	Marking
General Optical Cable	COG
Optical Cable with Low Smoke Zero Halogen Jacket	LSZH

Physical Characteristics

Minimum bending radius (mm)	- During installation: 15 x cable outer diameter - After installed: 10 x cable outer diameter
Maximum tensile loading during installation (N)	1x Weight of the cable/km (Minimum 1850)
Maximum compression load (short term) (N/cm)	110
Installation temperature	0 ºC to 40 ºC
Storage temperature	-20 ºC to 70 ºC
Operation temperature	-20 ºC to 65 ºC

Dimension

Nominal outer diameter (mm)	2 Fibers	11.5
	4 Fibers	11.5
	6 Fibers	11.5
	8 Fibers	12.5
	10 Fibers	12.5
	12 Fibers	12.5
Nominal weight (kg/km)	2 Fibers	175
	4 Fibers	175
	6 Fibers	175
	8 Fibers	185
	10 Fibers	185
	12 Fibers	185

Marking

Outer jacket:

"FURUKAWA FIBER-LAN-AR INDOOR/OUTDOOR y wF z k month/year "Customer Name" LOTE nL (**)"

Where:

y = Optical fiber type

SM Singlemode fiber

BLI Singlemode bending loss insensitive fiber

MM Multimode fiber

w = Fiber count

z = Denomination for special fiber

G-652D	For singlemode ITU-T G-652D fiber
G-657A1	For singlemode ITU-T G-657A1 fiber
G-657A2	For singlemode ITU-T G-657A2 fiber
(62.5)	For multimode 62.5µm fiber
(50)	For multimode 50µm fiber
(50)OM3	For multimode 50µm EIA/TIA 492AAAC fiber
(50)OM4	For multimode 50µm EIA/TIA 492AAAD fiber

k = Jacket type

month/year = Period of manufacturing MM/YYYY

(**) = Length mark xxxxxx m

nL = Manufacturing lot

Package Type	Wooden reel
Standard Length	2100m - Tolerance de ±5%.

Codification