

Fiber optic: free structure

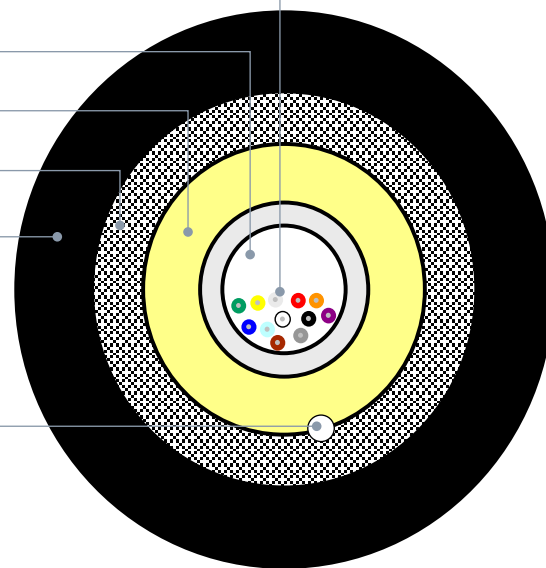
Tube filled with sealing gel

Anti-humidity fiberglass

Corrugated steel reinforcement

Outer sheath: HDPE

Ripping file



PRODUCT INFORMATION

APPLICATION

This cable is intended for outdoor applications, in ducts, or for direct burial.

Single-mode or multi-mode optical fiber follows and exceeds the IEC, ITU, and EIA/TIA specifications.

The central tube (2) made of PBT can hold up to 24 strands (1). The strands are colored for easy identification.

Beyond 12 strands, bundles of 12 strands are identified by a colored ribbon.

The tube is filled with self-locking gel, thixotropic gel to prevent water infiltration.

«Water blocking» fiberglass (3) is assembled around the central tube serving as rodent protection and moisture barrier. A corrugated steel armor (4) is placed longitudinally on the fiberglass.

The final protection is ensured by a UV-resistant HDPE sheath (6), extruded onto the steel strapping.

Two tear webbings (5) are positioned at 180° to facilitate deployment.

Color coding of fibers according to TIA/EIA 598A and IEC 304 norms.

Fiber number / tube	Color	Ring
1	Blue	-
2	Orange	-
3	Green	-
4	Brown	-
5	Gray	-
6	White	-
7	Red	-
8	Black	-
9	Yellow	-
10	Purple	-
11	Pink	-
12	Turquoise	-
13	Blue	Black
14	Orange	Black
15	Green	Black
16	Brown	Black
17	Gray	Black
18	White	Black
19	Red	Black
20	Translucent	Black
21	Yellow	Black
22	Purple	Black
23	Pink	Black
24	Turquoise	Black

(*)For more details, please refer to the document «optical performance».

MECHANICAL AND ENVIRONMENTAL PROPERTIES								
							IEC-60794-1-2 Test Method	TIA/EIA-455 FOTP No.
Number of fibers	2	4	6	8	12	24		
Number of tubes	1	1	1	1	1	1		
Nominal tube diameter [mm]	3.1	3.1	3.1	3.1	3.1	3.7		
Nominal outer diameter [mm]	7.4	7.4	7.4	7.4	7.4	7.4		
Nominal sheath thickness [mm]	1.5	1.5	1.5	1.5	1.5	1.5		
Maximum tensile strength (N)	2500 N						E1	33
Tensile strength during use	1500 N							
Minimum bending radius	20 x D						E11	104
Maximum crushing resistance (N)	5000 N						E3	41
Fire resistance	-							
Storage temperature	- 50°C to +70°C						F1	3
Operating temperature	- 40°C to +70°C						F1	3
Nominal weight [kg/km]	85	87	89	91	95	110		

REFERENCES			
Reference	Designation	Sheath color	 (m)
xFOLAEOS2	xx FO 9/125 OS2 LIBRE EXT LSZH	NOIR – RAL 9005	T1000

X = Number of fibers