

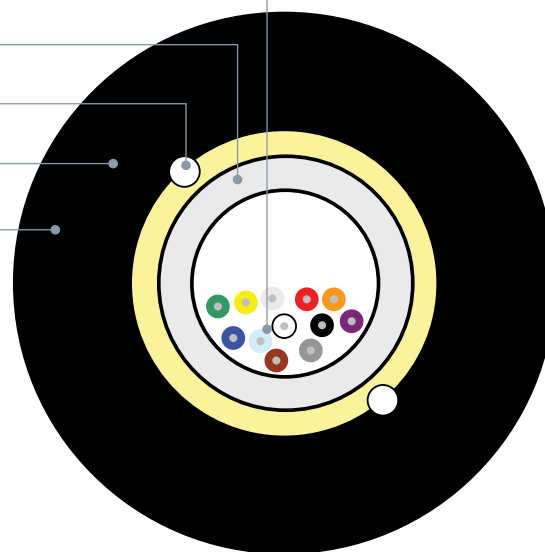
Optical fiber: Loose tube

Tube filled with waterproof gel

Anti-moisture glass fibers

Tearing strips

Outer sheath: HDPE



PRODUCT INFORMATION

APPLICATION

This cable is intended for outdoor applications, in conduits, or for direct burial. The single-mode or multimode 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 marked by a colored ribbon. The tube is filled with self-locking gel, thixotropic gel to prevent water infiltration. Strands of «water blocking» glass fibers (3) are assembled around the central tube serving as rodent protection and moisture barrier. Two tear webbings (4) are positioned at 180° to facilitate quickdraw. The final protection is ensured by a UV-resistant HDPE (5) sheath.

(*) For more details, see the document «optical performance».

Fiber color code according to TIA/EIA 598A and IEC 304 standards.

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

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							
Nominal tube diameter [mm]	3.1					3.7		
Nominal outer diameter [mm]	6.6					8.8		
Nominal sheath thickness [mm]	1.5							
Maximum tensile strength (N)	2500 N						E1	33
Tensile strength during use (N)	1500							
Minimum bending radius	20 x D						E11	104
Maximum crushing resistance (N)	4000						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]	50	52	54		56	60		

REFERENCES					
Reference	Designation	Sheath color	Diameter	Weight (Kg/Km)	 (m)
6FOLEOS2	6 FO 9/125 OS2 LIBRE EXT	NOIR – RAL 9005	7.6	54	T1000
12FOLEOS2	12 FO 9/125 OS2 LIBRE EXT	NOIR – RAL 9005	7.6	60	T1000