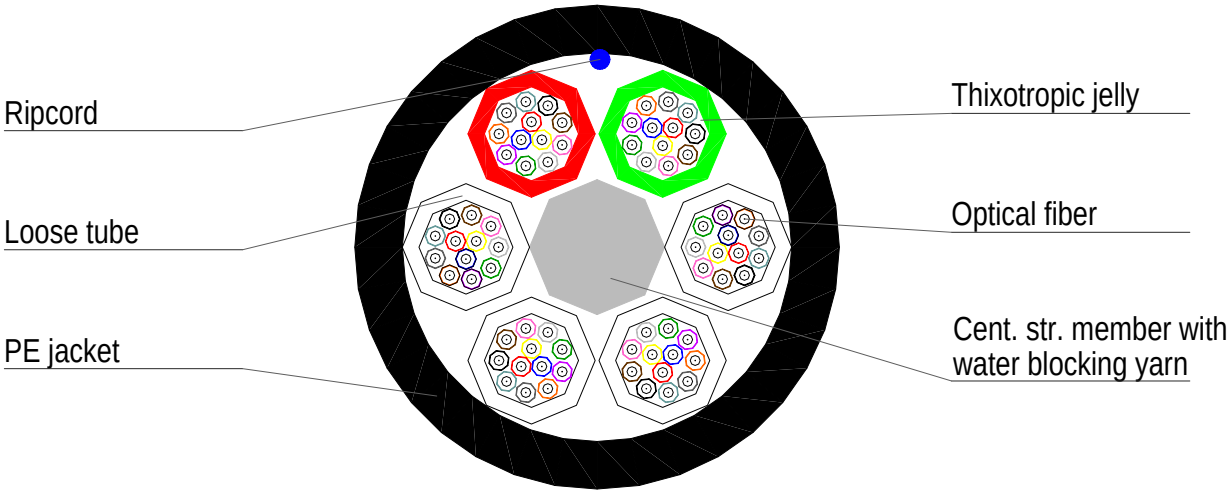
CENKABLO	12 to 72 F (SM (ITU-T G.652 D) DUCT TYPE MINI F.O. CABLE TECHNICAL SPECIFICATIONS



- Not to scale -

	Cable Construction						
-	Number of fibers	12	24	36	48	60	72
-	Number of loose tubes	1	2	3	4	5	6
-	Number of fibers per tube	12					
-	Number of fillers	5	4	3	2	1	0
-	Loose Tubes - Material - Outer Diameter - Type of filling compound	PBT 1,6 mm ± 3% Thixotropic jelly					
-	Fillers - Material	PBT					
-	Central Strength Member - Material - Diameter - Water blocking material	FRP 1,6 ± 0.05 mm Water blocking yarn over the cent. str. member					
-	Tube Assembly - Tube layout	Tubes and fillers (if required) are SZ stranded around a central strength member					
-	Outer Sheath - Material - Thickness	HDPE 0.6 mm (nominal)					
-	Cable diameter	6,2 mm ± 0,2					
-	Cable weight	30 kg/km					

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- **Mechanical characteristics**			(All optical measurements at 1550 nm)
Test	**Test Standard**	**Specified Value**	**Acceptance Criteria**
- Tensile Force Installation	IEC 60794-1-2-E1A	Load= 400 N,	Δα ≤0,1 dB but reversible to 0,05 dB/km
- Crush Resistance	IEC 60794-1-2-E3	Duration of load: 15 min, Force applied: 700 N/100 mm.	Δα ≤0,05 dB, no damage
- Repeated bending	IEC 60794-1-2-E6	Radius r=15*d (d=cable diameter) 50 N load, 50 cycles,	No damage
- Torsion	IEC 60794-1-2-E7	Number of cycles= 5, ± 180 ° Load 50 N	Δα ≤0,1 dB, no damage There shall be no permanent change in attenuation after the test.
- Bend	IEC 60794-1-2-E11	Radius r=20*d (d=cable diameter) 4 turns, 3 cycle	Δα ≤0,05 dB, no damage

- **Environmental Characteristics**			(All optical measurements at 1550 nm)
Test	**Test Standard**	**Specified Value**	**Acceptance Criteria**
- Temperature cycling	IEC 60794-1-2-F1	Operating -20 ºC to + 60 ºC, storage - 25 ºC to + 70 ºC,	Operation: Δα ≤0,05 dB/km Storage: Δα ≤0,1 dB/km but reversible to 0,05 dB/km
- Water penetration	IEC 60794-1-2-F5B	3 meter specimen,1 m water altitude	No leaked from the opposite end of the cable in 2 days.

- **Identification**	
- Cable Marking	1m ±1% Intervals in white color with hot print or ink-jet print.
- Identification of cable	CENKABLO <year of manufacturing> <number of fibers> F <type of fiber> <length marking in meter>
- Color of outer sheath and fillers (if required)	Black
- Color of loose tubes	1. Red, 2. Green, the others are non-colored or white.
- Color of fibers	1. Red, 2. Green, 3. Yellow, 4. Blue, 5. White, 6. Violet, 7. Orange, 8. Black, 9. Grey, 10. Brown, 11. Pink, 12. Turquoise

- **Delivery Information**	
- Drum length/Tolerance[1]	4000 m ± 5%
- Drum Flange diameter[1]	900 mm
- Drum core diameter[1]	500 mm
- Outside width[1]	780 mm
- Central hole diameter	85 mm

[1] *Drum dimensions can change depends on cable length on a drum.*

- **Transmission characteristics**
-Optical Attenuation: Max. 0,40 dB/km in λ = 1310 nm and max. 0,25 dB/km in λ = 1550 nm for 9/125 ITU-T G652.D fibers.

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