



Cable Construction				
- Number of fibers	4	6	8	12
- Number of loose tubes	1 central tube			
- Loose tube	PC+PBT			
-Material	2,5 ± 3% mm			
-Diameter	Thixotropic jelly			
-Type of filling compound	Glass yarn with water blocking elements			
- Peripheral strength member	Corrugated steel tape			
- Material	HDPE			
- Armor & rodent protection	1,4 mm ± 0,1			
-Material	7,6 mm ± 0,2			
- Outer Sheath	65 kg/km ± 10 %			
- Material				
- Thickness				
- Cable diameter				
- Cable weight (approx.)				

- Mechanical characteristics				(All optical measurements at 1550 nm)
Test	Test Standard	Specified Value	Acceptance Criteria	
- Tensile Force Short Term / Installation Long Term / Operation	IEC 60794-1-2-E1	Max. 1000 N Max. 700 N	$\epsilon_f \leq 0,5 \%$, $\Delta\alpha$ reversible $\epsilon_f \leq 0,33 \%$, $\Delta\alpha \leq 0,05$ dB	
- Cable Bend With load Without load	IEC 60794-1-2-E11	R= 20 x D, 4 turns, 3 cycles R= 15 x D, 4 turns, 3 cycles	$\Delta\alpha \leq 0,05$ dB, no damage	
- Impact	IEC 60794-1-2-E4	5 Nm, 3 impacts at different points, R= 10 mm,	No damage on tubes	
- Repeated bending	IEC 60794-1-2-E6	R= 20 x D, 10 N load, 30 cycles, t ≤ 2 min/10 cycles	No damage	
- Crush Resistance	IEC 60794-1-2-E3	Max. 3000 N/100 mm.	$\Delta\alpha \leq 0,05$ dB, no damage	

- Environmental Characteristics			
Test	Test Standard	Specified Value	Acceptance Criteria
- Water penetration	IEC 60794-1-2-F5B	1 meter specimen, 1 m water altitude	No leaked from the opposite end of the cable in 24 hours.
- Temperature cycling	IEC 60794-1-2-F1	-40 to + 80 °C	$\Delta\alpha \leq 0,05$ dB/km at 1550 nm

- Identification	
- Cable Marking	1m \pm 1% Intervals in white color with ink-jet or hot print.
- Identification of cable ¹	CENKABLO <year of manufacture> <number of fibers> FO <type of fibers> <length marking in meter>
- Color of loose tube ²	Natural
- Color of fibers ²	1.Red, 2.Green, 3.Blue, 4.Yellow ,5.White, 6.Grey, 7.Brown, 8.Violet, 9.Turquoise, 10.Black, 11.Orange, 12.Pink
- Color of outer sheath ²	Black

¹ This inscription is standard imprint. It can be changed according to request.

² The other tube, fiber and sheath colors are optional.

- Delivery Information	
- Drum length/Tolerance ³	2000 m \pm 5%
- Drum Flange diameter ³	900 mm
- Drum core diameter ³	580 mm
- Outside width ³	780 mm
- Central hole diameter	85 mm

³ Drum dimensions can change depends on cable length on a drum. Standard delivery length is 2 km. Other delivery lengths are optional.

- Transmission characteristics
-Refer to fiber data