



- Not to scale -

Cable Construction				
- Number of fibers	36	48	60	72
- Number of loose tubes	3	4	5	6
- Number of fillers	3	2	1	0
- Number of fibers per tube	12			
- Loose Tubes	PBT			
- Material	1,75 mm \pm 3%			
- Outer Diameter	Thixotropic jelly			
- Type of filling compound	FRP			
- Central Strength Member	1,8 \pm 0.05 mm			
- Material	Water blocking yarn over the cent. str. member			
- Diameter	6 tubes are SZ stranded around a central strength member			
- Water blocking material	HDPE			
- Tube Assembly	0.75 mm (nominal) \pm 0,1			
- Tube layout	6,8 mm \pm 0,2			
- Outer Sheath	36 kg/km			
- Material				
- Thickness				
- Cable diameter				
- Cable weight				

- Mechanical characteristics		(All optical measurements at 1550 nm)	
Test	Test Standard	Specified Value	Acceptance Criteria
- Tensile Force Installation	IEC 60794-1-2-E1A	Load= 1000 N	$\Delta\alpha \leq 0,1$ dB but reversible to 0,05 dB/km
- Crush Resistance	IEC 60794-1-2-E3	1500 N/100 mm.	$\Delta\alpha \leq 0,05$ dB, no damage
- Impact	IEC 60794-1-2-E4	Impact energy E=5J	$\Delta\alpha \leq 0,05$ dB, no damage
- Repeated bending	IEC 60794-1-2-E6	100 N load, 100 cycles,	No damage
- Torsion	IEC 60794-1-2-E7	Number of turns/cycle= ± 1 , Load 100 N	$\Delta\alpha \leq 0,1$ dB, no damage There shall be no permanent change in attenuation after the test.
- Bend	IEC 60794-1-2-E11	Radius r= 250 mm (d=cable diameter)	$\Delta\alpha \leq 0,05$ 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 °C to + 60 °C, storage - 25 °C to + 70 °C, Cable length: ≥ 1 km	Operation: $\Delta\alpha \leq 0,05$ dB/km Storage: $\Delta\alpha \leq 0,1$ 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 $\pm 1\%$ Intervals in white color with hot print.
- Identification of cable	CENKABLO <year of manufacturing> MINI <number of fibers> F <fibre type> <length marking in meter>
- Color of outer sheath ¹	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
- Color of filler elements (if required)	Black

¹Other colors are optional.

- Delivery Information		
- Drum length/Tolerance ²	1000 m $\pm 5\%$	2000 m $\pm 5\%$
- Drum Flange diameter ²	600 mm	800 mm
- Drum core diameter ²	350 mm	500 mm
- Outside width ²	420 mm	520 mm
- Central hole diameter	33 mm	85 mm

² Drum dimensions can change depends on cable length on a drum. Other drum lengths are available.

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