



Cable Construction	
- Number of fibers	144
- Number of loose tubes	12
- Number of fillers	0
- Number of fibers per tube	12
- Loose Tubes	
- Material	PBT
- Outer Diameter	1,75 mm \pm 3%
- Type of filling compound	Thixotropic jelly
- Central Strength Member	
- Material	FRP
- Diameter	2,2 \pm 0.05 mm
- PE oversheathed diameter	5,4 \pm 0.05 mm
- Water blocking material	Water blocking yarn over the cent. str. member
- Tube Assembly	
- Tube layout	12 tubes are SZ stranded around a central strength member
- Outer Sheath	
- Material	HDPE
- Thickness	0.8 mm (nominal) \pm 0,1
- Cable diameter	10,6 mm \pm 0,2
- Cable weight	85 kg/km

- 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	Force applied: 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	Radius r= 250 mm (d=cable diameter) 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), Number of turns/helix=5,	$\Delta\alpha \leq 0,05$ 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,	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 144 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	2000 m $\pm 5\%$
- Drum Flange diameter ²	1000 mm
- Drum core diameter ²	500 mm
- Outside width ²	780 mm
- Central hole diameter	85 mm

²Drum 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.	