



-Not to scale-

<b>Cable Construction</b>						
- Number of fibers	6	12	18	24	30	36
- Number of loose tubes x Number of fibers per tube	1x6	2x6	3x6	4x6	5x6	6x6
- Central strength member	2,2 ± 0,05 mm FRP ---					
- Diameter						
- Material						
- CSM Oversheathing diameter						
- Loose tube	PBT 2,1 ± 3% mm Thixotropic jelly					
-Material						
-Diameter						
-Type of filling compound						
- Filler (if required)	PE					
-Material						
- Tube assembly	Tubes and fillers (if required) are SZ stranded around a central strength member					
- Longitudinal water blocking	The cable core is flooded with filling compound.					
- Core wrapping	Polyester tape					
-Material						
- Armor & Rodent protection	Both sides copolymer coated corrugated steel tape					
-Material						
- Outer Sheath	MDPE 1,3 mm (nominal)					
- Material						
- Thickness						
- Cable diameter	10,8 mm ± 0,2					
- Cable weight (approx.)	125 kg/km					

<b>- Mechanical characteristics</b>			(All optical measurements at 1550 nm)
Test	Test Standard	Specified Value	Acceptance Criteria
- Tensile Force Installation Operation	IEC 60794-1-2-E1	Max. 1500 N Max. 700 N	$\Delta\alpha$ reversible, $\epsilon_f \leq 0,33\%$ $\Delta\alpha = <0,05$ dB, no fiber strain
- Cable Bend	IEC 60794-1-2-E11	R= 20 x D, 4 turns, 3 cycles	$\Delta\alpha = <0,05$ dB, no damage
- Impact	IEC 60794-1-2-E4	5 Nm, 3 impacts at different points, R= 10 mm,	$\Delta\alpha = <0,05$ dB, no damage on tubes
- Repeated bending	IEC 60794-1-2-E6	R= 20 x D, 20 N load, 30 cycles, t $\leq$ 2 min/10 cycles	No damage
- Crush Resistance	IEC 60794-1-2-E3	Max. 2500 N/100 mm.	$\Delta\alpha = <0,05$ dB, no damage

<b>- Environmental Characteristics</b>			
Test	Test Standard	Specified Value	Acceptance Criteria
- Water penetration	IEC 60794-1-2-F5B	3 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	-30 to + 70 °C	$\Delta\alpha = <0,05$ dB/km at 1550 nm

<b>- Identification</b>	
- Cable Marking	1m $\pm$ 1% Intervals in white color with hot print.
- Identification of cable <sup>1</sup>	<number of fibers> F <fiber type> CENKABLO <year of manufacture> <length marking in meter>
- Color of filler	Black
- Color of loose tube <sup>2</sup>	1.Red, 2.Green, Others: Natural
- Color of fibers <sup>2</sup>	1.Red 2.Green, 3.Yellow, 4.Blue, 5.White, 6.Violet
- Color of outer sheath <sup>2</sup>	Black

<sup>1</sup> It is standard imprint. Other identifications are optional.

<sup>2</sup> The other tube, fiber and sheath colors are optional.

<b>- Delivery Information</b>	
- Drum length/Tolerance <sup>3</sup>	2000 m $\pm$ 5%
- Drum Flange diameter <sup>3</sup>	1000 mm
- Drum core diameter <sup>3</sup>	500 mm
- Outside width <sup>3</sup>	780 mm
- Central hole diameter	85 mm

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

<b>- Transmission characteristics</b>
-Refer to fiber data