



-Not to scale-

Cable Construction						
- Number of fibers	12	24	36	48	60	72
- Number of loose tubes x Number of fibers per tube	1x12	2x12	3x12	4x12	5x12	6x12
- Central strength member						
- Diameter	2,4 ± 0,05 mm					
- Material	FRP					
- CSM Oversheathing diameter	---					
- Loose tube						
-Material	PBT					
-Diameter	2,3 ± 3% mm					
-Type of filling compound	Thixotropic jelly					
- Filler (if required)						
-Material	PE					
- Core filling compound						
-Material	Petroleum gel					
- Core wrapping						
-Material	Polyester tape					
- Periphery strength Members						
-Material	Glass yarn					
- Outer Sheath						
- Material	MDPE					
- Thickness	1,5 mm (nominal)					
- Cable diameter	10,6 mm ± 0,2					
- Cable weight (approx.)	95 kg/km					

- Mechanical characteristics			
(All optical measurements at 1550 nm)			
Test	Test Standard	Specified Value	Acceptance Criteria
- Tensile Force Installation Operation	IEC 60794-1-2-E1	Max. 2700 N Max. 1500 N	$\Delta\alpha$ reversible $\Delta\alpha = <0,05$ dB
- 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	3 Nm, 5 impacts at different points, R= 300 mm,	$\Delta\alpha = <0,05$ dB, no damage on tubes
- Repeated bending	IEC 60794-1-2-E6	R= 20 x D, 25 kg load, 30 cycles, $t \leq 2$ min/10 cycles	No damage
- Crush Resistance	IEC 60794-1-2-E3	Max. 2000 N/100 mm.	$\Delta\alpha = <0,05$ dB, no damage

- Environmental Characteristics			
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

- Identification	
- Cable Marking	1m \pm 1% Intervals in white color with hot print.
- Identification of cable ¹	<number of fibers> F <fiber type> CENKABLO <year of manufacture> <length marking in meter>
- Color of filler (if required)	Black
- Color of loose tube ²	1.Red, 2.Green, Others: Natural
- 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 outer sheath	Black

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

² The other tube and fiber colors are optional.

- Delivery Information	
- Drum length/Tolerance ³	2000 m \pm 5%
- Drum Flange diameter ³	1000 mm
- Drum core diameter ³	500 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 lengths are optional.

- Transmission characteristics
-Refer to fiber data