



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	2,5 ± 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					
- Armor & rodent protection						
-Material	Corrugated steel tape					
- Outer Sheath						
- Material	MDPE					
- Thickness	2,5 mm (nominal)					
- Cable diameter	13,8 mm ± 0,2					
- Cable weight (approx.)	180 kg/km					

- Mechanical characteristics		
Test	Test Standard	Specified Value
- Tensile Force Installation Operation	IEC 60794-1-2-E1	Max. 1800 N Max. 1000 N
- Crush Resistance	IEC 60794-1-2-E3	Max. 2000 N/100 mm.
- Impact	IEC 60794-1-2-E4	20 Nm
- Repeated bending	IEC 60794-1-2-E6	$r = 20 \times D$, 20 N load, 30 cycles (r : radius, D : cable diameter)
- Torsion	IEC 60794-1-2-E7	5 cycles \pm 1 turn
- Cable Bend With load Without load	IEC 60794-1-2-E11	275 mm 210 mm

- Environmental Characteristics		
Test	Test Standard	Specified Value
- Temperature cycling	IEC 60794-1-2-F1	Storage -40 to + 80 °C, Installation -30 to + 50 °C, Operation -40 to + 70 °C $\Delta\alpha = <0,05 \text{ dB/km}$ at 1550 nm for SM fibers and $\Delta\text{dB} \leq 0.1 \text{ dB/km}$ at 1300 nm for MM fibers.
- Water penetration	IEC 60794-1-2-F5B	No leaked from the opposite end of the cable in 24 hours.

- Identification	
- Cable Marking	1m \pm 1% Intervals in white color with hot print.
- Identification of cable ¹	CENKABLO <year of manufacture> <number of fibers> FO <type of fibers> <length marking in meter>
- Color of fillers ² (if required)	Black
- Color of loose tube ²	Natural
- Color of fibers ²	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 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	1200 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