



-Not to scale-

Cable Construction						
- Number of fibers	4	8	12	16	20	24
- Number of loose tubes x Number of fibers per tube	1x4	2x4	3x4	4x4	5x4	6x4
- Central strength member	2,1 ± 0,05 mm FRP ---					
- Diameter						
- Material						
- CSM Oversheathing diameter						
- Loose tube	PBT 1,9 ± 3% mm Thixotropic jelly					
-Material						
-Diameter						
-Type of filling compound						
- Filler (if required)	PE					
-Material						
- Core flooding compound	Petroleum gel					
- Core wrapping	Polyester tape					
-Material						
- Periphery strength Members	Glass yarn					
-Material						
- Outer Sheath	MDPE 1,5 mm (nominal)					
- Material						
- Thickness						
- Cable diameter	9,7 mm ± 0,2					
- Cable weight (approx.)	80 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	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

- 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	-40 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	Black
- Color of loose tube ²	1.Red, 2.Green, Others: Natural
- Color of fibers	1.Red, 2.Green, 3.Yellow, 4.Blue
- Color of outer sheath	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	900 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 delivery lengths are optional.

- Transmission characteristics
-Refer to fiber data