



-Not to scale-

Cable Construction						
- Number of fibers	156	168	180	192	204	216
- Number of loose tubes x Number of fibers per tube	18x12					
- Central strength member						
- Diameter	2,4 ± 0,05 mm					
- Material	FRP					
- CSM Oversheathing diameter (mm)	---					
- Loose tube						
-Material	PBT					
-Diameter	2,30 ± 3% mm					
-Type of filling compound	Thixotropic jelly					
- Filler						
-Material	PE					
-Diameter	2,30 ± 3% mm					
- Tube Assembly						
- Tube layout	1 st layers of 6 tubes are SZ stranded around a central strength member and 2 nd layers of 12 tubes (or tubes and fillers) are SZ stranded around the 1.st layer.					
- Core filing compound	Petroleum gel					
- Core wrapping						
-Material	Polyester tape					
- Periphery strength members						
-Material	Glass yarn					
- Outer Sheath						
- Material	MDPE					
- Thickness	1,5 mm (nominal)					
- Cable diameter	15,6 mm ± 0,2					
- Cable weight (approx.)	198 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 With load Without load	IEC 60794-1-2-E11	R= 20 x D, 4 turns, 3 cycles R= 15 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,	No damage on tubes
- Repeated bending	IEC 60794-1-2-E6	R= 20 x D, 100 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	1 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 loose tube of 2nd layer ²	1.Red, 2.Green, Others: Natural
- Color of loose tube of 1st layer ²	1.Red, 2.Green, Others: Natural
- Color of fillers (if required)	Black
- Color of fibers ²	1.Red, 2.Green, 3.Blue, 4.Yellow, 5.White, 6.Grey, 7.Brown, 8.Violet, 9.Turquoise, 10.Black, 11.Orange, 12.Pink
- 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 ¹	2000 m \pm 3%
- Drum Flange diameter ¹	1250 mm
- Drum core diameter ¹	580 mm
- Outside width ¹	860 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