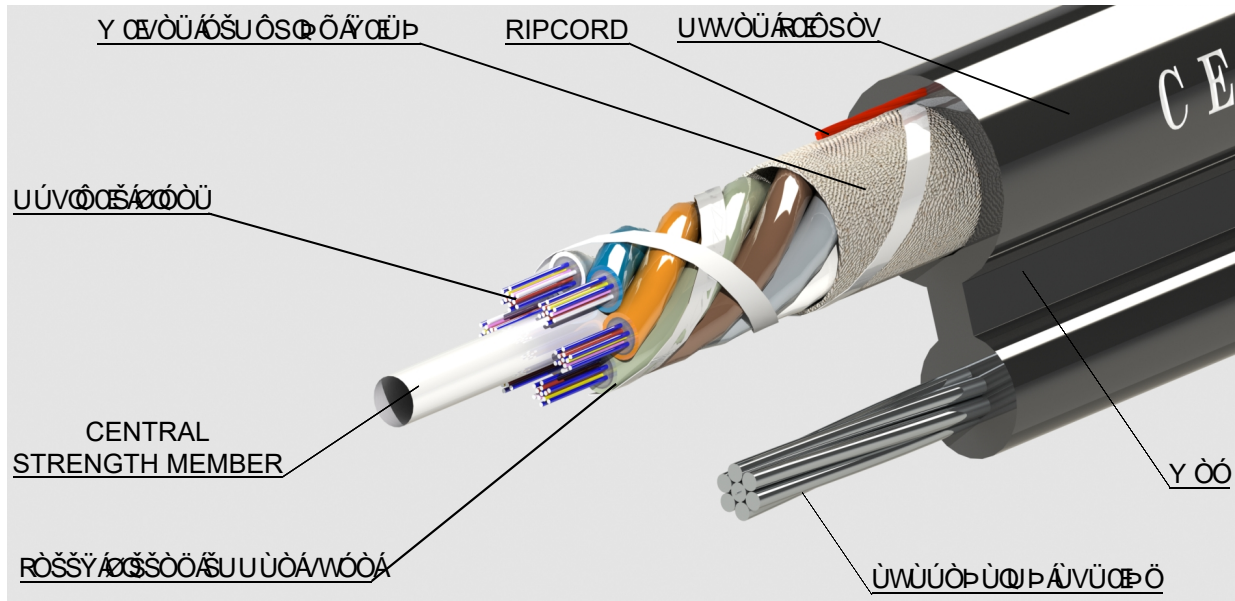


A-DQ-2YT
6 to 36 FIBERS (ITU-T G.652D) OUTDOOR AERIAL TYPE F.O. CABLE
TECHNICAL SPECIFICATIONS



Cable Construction						
- 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 FRP Water swellable yarn over the CSM with helically application.					
- Diameter (mm)						
- Material						
- Water blocking material						
- Loose tube	PC+PBT 2,15 ± 3% Thixotropic jelly					
-Material						
-Diameter (mm)						
-Type of filling compound						
- Filler (if required)	PE					
-Material						
- Core wrapping	Water blocking tape					
-Material						
- Peripheral strength members	Glass Yarn					
-Material						
Suspension strand	7x1,0 mm galvanized steel rope					
-Over sheathing diameter	6,0 ± 0,2 mm					
- Web dimension	H:2,8 ± 0,3 mm and W:2,5 ± 0,2 mm					
- Outer Sheath	HDPE 1,5 (nominal)					
- Material						
- Thickness (mm)						
- Cable diameter (mm)	10,4 x 19,0 ± 0,2					
- Cable weight (approx.) (kg/km)	145					

- Mechanical characteristics		(All optical measurements at 1550 nm)	
Test	Test Standard	Specified Value	Acceptance Criteria
- Tensile Force	IEC 60794-1-2-E1B	Load= 6000 N, Duration of load: 15 min, Cable length \geq 50 m	Change in attenuation to be reversible. Max. fiber elongation $\epsilon_r \leq 0.33 \%$
- Crush Resistance	IEC 60794-1-2-E3	Length of plate: 100 mm Duration of load: 15 min, Number of positions where the load shall be applied : 3, Force applied: 1500 N/100 mm.	Change in attenuation to be reversible. $\Delta\alpha \leq 0,05$ dB during and after the test No damage.
- Impact	IEC 60794-1-2-E4	One impact in 3 different places spaced not less than 500 mm apart Anvil radius $r = 10$ mm Impact energy $E = 3$ J	No damage $\Delta\alpha \leq 0,05$ dB
- Repeated bending	IEC 60794-1-2-E6	Cable length $L \geq 1$ m, Radius $r = 15$ d; but ≥ 250 mm ($d =$ cable diameter) Number of cycles = 100, Duration of cycle: aprox. 2s, Load = 100N	Under visual examination without magnification there shall be no damage to the sheath or the cable elements
- Torsion	IEC 60794-1-2 E7	1 meter specimen, load is 100 N, 1 turn 180° each directions, 3 cycles	$\Delta\alpha \leq 0,1$ dB/100m during the test $\Delta\alpha \leq 0,05$ dB after the test, no damage on cable jacket
- Cable Kink	IEC 60794-1-2-E10	Radius $r = 4$ d; but ≥ 60 mm Number of cycles = 10	No kink of the cable shall be visible
- Bend	IEC 60794-1-2-E11A	Radius $r = 15$ d; but ≥ 250 mm ($d =$ cable diameter), Number of turns/ helix = 5, Number of cycles = 3	Change in attenuation to be reversible. $\Delta\alpha \leq 0,05$ dB after the test No damage.

- Environmental Characteristics		(All optical measurements at 1550 nm)	
Test	Test Standard	Specified Value	Acceptance Criteria
- Water penetration	IEC 60794-1-2-F5B	3 meter specimen, 1 m water altitude	In all cable elements the penetration shall be ≤ 1 m after 7 days
- Temperature cycling	IEC 60794-1-2-F1	Operation -30 to $+70$ °C, Installation -5 to $+50$ °C, Transport&storage -30 to $+70$ °C	$\Delta\alpha_{\text{operation}} \leq 0,05$ dB/km $\Delta\alpha_{\text{storage}} \leq 0,1$ dB/km, but reversible to $\leq 0,05$ dB/km

- Identification	
- Cable Marking	1m $\pm 1\%$ Intervals in white color with hot print.
- Identification of cable ¹ (upside)	<project name> CENKABLO <year of manufacture> <number of fibers> F <fiber type> <length marking in meter> \rightarrow
- Identification of cable ¹ (underside)	< sine wave> < telephone handset mark>
- Color of filler (if required)	Black
- Color of loose tube ²	First tube: Red, Others: White, Last tube: Blue,
- Color of fibers	1. Blue, 2. Orange, 3. Green, 4. Brown
- Color of outer sheath	Black with two yellow stripes along the length of the cable, diametrically opposite each other.

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 (m)	2000 ± 5%
- Drum Flange diameter ³ (mm)	1200
- Drum core diameter ³ (mm)	580
- Outside width ³ (mm)	780
- Central hole diameter (mm)	85

³Drum 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