



Cable Construction	
- Number of fibers	432
- Number of loose tubes	18
- Number of fibers per tube in 1 st layer	6
- Number of fibers per tube in 2 nd layer	12
- Loose Tubes	
- Material	PA+PBT
- Outer Diameter	3,0 mm ± 3%
- Type of filling compound	Thixotropic jelly
- Central Strength Member	
- Material	FRP
- Diameter	2,7 mm ± 0.05
- CSM Oversheathing diameter	3,3 mm ± 3%
- Water blocking material	Water blocking yarn over the cent. str. member
- Tube Assembly	
- Tube layout	6 tubes are SZ stranded around a central strength member and 12 tubes are SZ stranded on the inner layer.
- Core Wrapping	
- Material	On the outer layer and between inner and outer layer Water blocking tape
- Outer Sheath	
- Material	HDPE
- Thickness	1.5 mm (nominal)
- Cable diameter	20,6 mm ± 0,2
- Cable weight	340 kg/km

A-DQ(ZN)B2Y
432 FIBERS (SINGLE MODE FIBERS) NON-METALLIC ARMORED DUCT & DIRECT
BURIED TYPE F.O. CABLE TECHNICAL SPECIFICATIONS

- Mechanical characteristics		(All optical measurements at 1550 nm)	
Test	Test Standard	Specified Value	Acceptance Criteria
- Tensile Force Installation Operation	IEC 60794-1-2-E1	11000 N 9000 N	$\Delta\alpha$ reversible, fiber strain $\leq 0,33\%$ $\Delta\alpha \leq 0,05$ dB, no fiber strain
- Crush Resistance	IEC 60794-1-2-E3	3000 N/100 mm., max. 15 min	$\Delta\alpha \leq 0,05$ dB, no damage
- Impact	IEC 60794-1-2-E4	Anvil radius $r=10$ mm Impact energy $E=5$ J	$\Delta\alpha \leq 0,05$ dB, no damage
- Repeated bending	IEC 60794-1-2-E6	Radius $r=20 \cdot d$ (d =cable diameter) 100 N load, 50 cycles,	No damage
- Torsion	IEC 60794-1-2-E7	Number of cycles= 5, $\pm 180^\circ$ Load 100 N	$\Delta\alpha \leq 0,05$ dB, no damage There shall be no permanent change in attenuation after the test.
- Bend	IEC 60794-1-2-E11	Radius $r=20 \cdot d$ (d =cable diameter) 4 turns, 3 cycle	$\Delta\alpha \leq 0,05$ 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	CENKABLO <year of manufacture> <number of fibers> F <fiber type> <length marking in meter>
- Color of outer sheath ²	Black
- Color of loose tubes on inner layer ²	1. Red, 2. Green, the other 6 tubes are non-colored or white.
- Color of loose tubes on outer layer ²	1. Red, 2. Green, the other 10 tubes are non-colored or white.
- 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, 13. Red/1stripe, 14. Green/1stripe, 15. Yellow/1stripe, 16. Blue/1stripe, 17. White/1stripe, 18. Violet/1stripe, 19. Orange/1stripe, 20. Natural/1stripe, 21. Grey/1stripe, 22. Brown/1stripe, 23. Pink/1stripe, 24. Turquoise/1stripe

¹ This inscription is standard imprint. Other inscriptions are optional.

² The other tube, fiber and sheath colors are optional.

- Delivery Information	
- Drum length/Tolerance ³	2000 m $\pm 5\%$
- Drum Flange diameter ³	1550 mm
- Drum core diameter ³	580 mm
- Outside width ³	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 lengths are optional.

- Transmission characteristics
-Refer to fiber data