

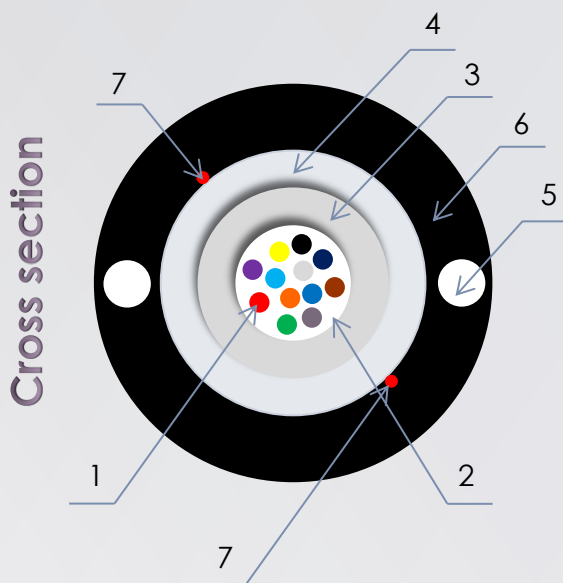
Fiber optic cables, DUCT ZTT 2-24J, single-tube, G.652D, 1 kN
Z-DT-UT.02-24J



ZTT 2-24J DUCT fiber optic cables are single-tube construction cables designed for laying in teletechnical sewerage systems. They were strengthened with glass fibers and two FRP (Fiber Reinforced Polymer) rods embedded in the outer layer. In addition, a double ripcord was used to facilitate the removal of the external cover of the cable. The tube with optical fibers contains a hydrophobic gel that protects them from moisture and vibration. Single-mode G.652D fibers have been used, which have a reduced "water peak" (Zero Water Peak). The cable is completely dielectric, with good tensile strength and pressure. The external cover is made of high-density polyethylene (HDPE, black) with high resistance to chemical agents and substances present in teletechnical sewerage system.

Product Code	Z-DT-UT.02J	Z-DT-UT.04J	Z-DT-UT.08J	Z-DT-UT.12J-2	Z-DT-UT.24J
Type of fibers	G.652D	G.652D	G.652D	G.652D	G.652D
Number of fibers	2	4	8	12	24
Outer diameter [mm]	5.2	5.2	5.2	5.2	6.2
Lose tube [mm]	2	2	2	2	3
FRP [mm]	0.58	0.58	0.58	0.58	0.58
Weight [kg/km]	24	24	24	24	35

Table 1. General data



Cable construction:

- 1 - Fibers
- 2 - Hydrophobic gel
- 3 - Central tube
- 4 - Fiberglass
- 5 - FRP (x2)
- 6 - Outer sheath (black)
- 7 - Ripcord (x2)

✓ Teletechnical sewerage systems

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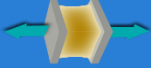
	Norm	Cables 02-12J, 5.2 mm	Cables 24J, 6.2 mm
Max. Tensile load [N]	IEC 60794-1-2-E1	800	
Crush resistance / 10cm [N]	IEC 60794-1-2-E3	1000	
Torsion [N]	IEC 60794-1-2-E7	100 (5 cycles, +/-180°)	
Repeated bending [mm]	IEC 60794-1-2-E6	52	62
Operation temperature [°C]	IEC 60794-1-2-F1	-40~+70	
Installation temperature [°C]	IEC 60794-1-2-F1	-30~+60	

Table 2. Strength parameters

Number	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua

Table 3. Fiber color identification

