

✔ Fiber optic multitube duct cable Z-DT.MT.144J.2KN, G.652D, 9.6 mm



- Anti-Rodent protection
- Two-layered HDPE jacket (black)
- Reinforced by a thick layer of glass fibers
- Multitube structure
- UV, water resistant
- Resistance to chemical agents
- Resistance to substances occurring in duct systems
- Reinforced by central FRP rod
- Hydrophobic gel in tube
- Optical fibers G.652D
- Ripcords

**Application:**

- Places exposed to rodent attacks
- Duct systems
- Distribution networks
- Campus networks
- Outside the buildings

Technical data	Product ID	Number of fibers	Number of fibers in tube	Number of tubes/fillers	Diameter [mm]	Jacket thickness [mm]	Weight [kg/km]
	Z-DT.MT-144J.2KN-12F	144	12	12/0	9.6	1.1	80

Table 1. Fiber optic duct ZTT cable 144F, multitube, 2kN, G.652D

Mechanical parameters	IEC standard	Z-DT.MT.144J.2KN
Tensile Strength	IEC 794-1-E1	2000N
Crush resistance	IEC 794 -1-E3	1500N/100mm
Impact resistance	IEC 794 -1-E4	20 impacts, 12 Nm
Repeated bending	IEC 794-1-E6	20 [cycles(15xD)], load 150N
Torsion resistance	IEC 794-1-E7	10 cycles 180°, load 150N
UV resistance	ISO 4892/2	✔
Water penetration resistance	IEC 794-1-F5B	✔
Abrasion resistance	IEC 794-1-E2	✔
Temperature cycling test	IEC 794-1-F1	2 thermal cycles in the range of -40°C+70°C

Table 2. Mechanical parameters of fiber optic duct ZTT cable 144F, multitube, 2kN, G.652D

Number	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aquamarine

Table 3. Fiber optic and tubes colour coding

**STRUCTURE OF CABLE**

- 1 - HDPE jacket
- 2 - Fiberglass
- 3 - Hydrophobic gel
- 4 - Ripcord (x2)
- 5 - Central FRP rod
- 6 - Optical fibers G.652D,
- 7 - Tube with optical fibers



- Storage and transport temperature: -40°C + 70°C
- Installation temperature: -15°C + 50°C
- Operation temperature: -30°C + 70°C

IEC 60793-1, IEC 60793-2, IEC 60794-4-20

