Fiber optic microduct multitube cables Z-MICRO-MT.12-144J, G.652D

- HDPE jacket (black)
- Multitube structure
- UV, water resistant
- Resistance to chemical agents
- Resistance to substances occuring in duct systems
- Reinforced by central FRP rod
- Hydrophobic gel in tubes
- Optical fibers G.652D
- Ripcord

Applications:

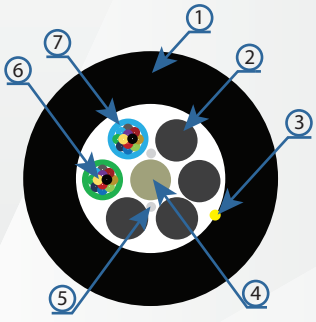
- Microduct systems
- Distribution networks
- Campus networks
- Inside the building (in LSOH pipes)

Technical data	Product ID	Number of fibers	Number of fibers in tube	Number of tubes/fillers	Cable diameter [mm]	Weight [kg/km]
	Z-MICRO-MT.12J-12F	12	12	1/5	5.4	29
	Z-MICRO-MT.24J-12F	24	12	2/4	5.4	29
	Z-MICRO-MT.48J-12F	48	12	4/2	5.4	29
	Z-MICRO-MT.72J-12F	72	12	6/0	5.4	29
	Z-MICRO-MT.96J-12F	96	12	8/0	6.4	39
	Z-MICRO-MT.144-12F	144	12	12/0	7.9	58

Table 1. Fiber optic microduct ZTT cables 12-144F, multitube, G.652D

Mechanical parameters	IEC standard	Cables Z-MICRO-MT.12-72J	Cables Z-MICRO-MT.96-144J
Tensile Strength	IEC 794-1-E1	1000 N	1200 N
Crush resistance	IEC 794 -1-E3	750 N/100 mm	
Impact resistance	IEC 794 -1-E4	15 impacts, 12 Nm	
Repeated bending	IEC 794-1-E6	15 [cycles(15xD)]	
Torsion resistance	IEC 794-1-E7	10 cycles 180˚, load 120 N	
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 microduct ZTT cables 12-144F, multitube,G.652D



STRUCTURE OF CABLE (example for 24F (12F/T)

1 - HDPE jacket (black)
2 - Filler
3 - Ripcord
4 - Central FRP rod
5 - Water-absorbing yarns
6 - Optical fibers G.652D
7 - Tube with optical fibers

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

Table 3. Fiber optic colour coding

- *Storage and transport temperature: -40°C ÷ 70°C*
- *Installation temperature: -10°C ÷ 55°C*
- *Operation temperature: -30°C ÷ 60°C*