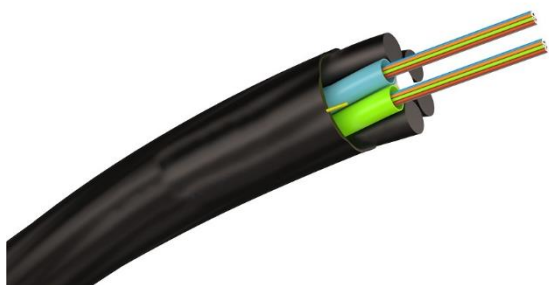


## Fiber optic microduct multitube 12-144J, G.652D



- ▶ HDPE jacket (black)
- ▶ Multitube structure
- ▶ UV, water resistant
- ▶ Resistance to chemical agents
- ▶ Resistance to substances occurring 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)

Number of fibers	Number of fibers in tube	Number of tubes/fillers	Cable diameter [mm]	Weight [kg/km]
12	12	1/5	5.6	29
24	12	2/4	5.6	29
48	12	4/2	5.6	29
72	12	6/0	5.6	29
96	12	8/0	6.4	39
144	12	12/0	7.9	58

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	



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

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