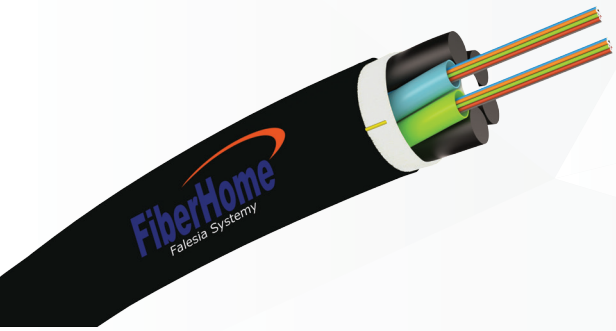
Fiber optic cables
(multitube microduct cables)

FiberHome

falesiasystemy

Fiber optic multitube microduct cable F-MICRO-MT.96J, 1kN, 6.3 mm, G.652D



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

Application:

- MictoDuct systems
- Duct systems
- Distribution networks
- Campus networks
- Outdoor

Technical data	Product ID	Type of fibers	Number of fibers	Number of fibers in tube	Number of tubes/fillers	Cable diameter [mm]	FRP rod diameter [mm]	Thickness of jacket [mm]	Weight [kg/km]
	F-MICRO-MT.96J	G.652D	96	12	8/0	6.3	2.3	0.45	33

Table 1. Fiber optic microduct FIBERHOME cable 96F, multitube, 1kN, G.652D

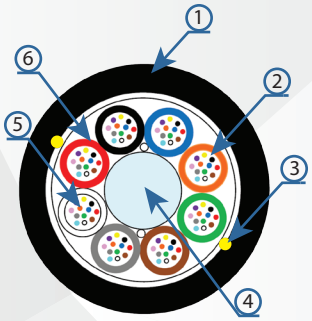
Mechanical parameters	IEC/ISO standard	F-MICRO-MT.96J
Tensile Strength	IEC 794-1-E1	1000 N
Crush resistance	IEC 794 -1-E3	1000 N/100 mm
Impact resistance	IEC 794 -1-E4	15 impacts, 10 Nm
Repeated bending	IEC 794-1-E6	20 [cycles(15xD)], load 80 N
Torsion resistance	IEC 794-1-E7	10 cycles 180˚, 120 N
UV 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 microduct FIBERHOME cable 96F, multitube, 1kN, G.652D

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

Optical parameters:

- *Max insertion loss (IL) for 1310 nm wavelenght : 0.32dB/km*
- *Max insertion loss (IL) for 1550 nm wavelenght : 0.18dB/km*



Stucture of cable 96F

1 - HDPE jacket
2 - Thixotropic gel
3 - Ripcords (x2)
4 - Central FRP rod
5 - Optical fibers G.652D
6 - Tube with optical fibers

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

Table 3. Fiber optic and tubes colour coding