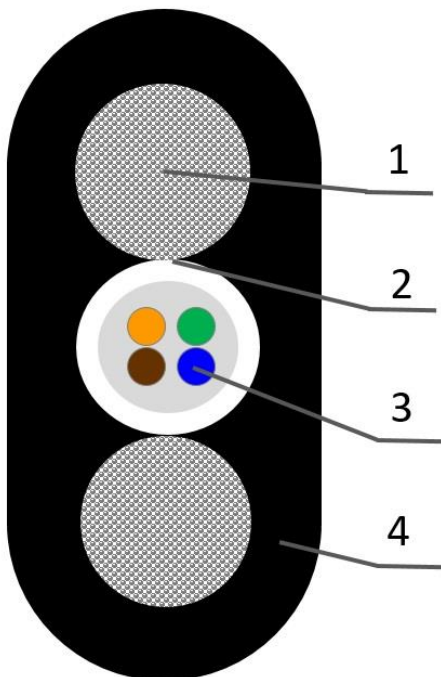


# Micro FTTx 2xFRP HDPE

## Cable Cross-Section



## Cable Structure

1. Strength Members, FRP ROD
2. Loose tube
3. Optical Fiber
4. Outer Sheath, Black HDPE

## Features

- High connecting usability, easy access to the fiber core;
- Simple structure, light weight and high practicability;
- Full dielectric design;
- Two parallel FRP strength members ensure good performance of crush and tension resistance to protect the fiber;
- If G.657 fiber be put in the cable, ensure the very good bending performance. (Bend radius 10mm/G.657A, Bend radius 7.5mm/G.657B);
- Black HDPE, UV protected.

## Cable Specification

Fiber count	1F	2F	4F
Messenger, Steel wire	Self-supported		
Strength member, FRP	1.2 mm		
Loos tube, PBT	1.2 mm		
Cable diameter	4.0*2.0(±0.1) mm		
Cable weight	18.5 (kg/km)	19.0 (kg/km)	20.0 (kg/km)
Operating temperature range (°C)	min -50, max +70 (°C)		
Tensile strength	Short term 800N		
	Long term 500N		
Crush resistance	Short term 2000 N/100mm		
	Long term 1000 N/100mm		
Fiber colour	Blue	Blue, Orange	Blue, Orange, Green, Brown

## Fiber Characteristics

Fiber Type	Attenuation 1310nm	Attenuation 1550nm	Min. bending radius	Min. bending radius (rip off the messenger wire) dynamic/static
G 652.D	≤0.40 dB/km	≤0.30 dB/km	120mm	30/60
G 657.D	≤0.35 dB/km	≤0.25 dB/km	120mm	10/25

## Mechanical & Environmental Characteristics

Test	Test Standards	Specified Value	Requirements
Tension	IEC 60794-1-2-E1	See Technical data	Additional attenuation: ≤0.4dB after test
Crush	IEC 60794-1-2-E3	See Technical data	Additional attenuation: ≤0.4dB after test
Impact	IEC 60794-1-2-E4	R=300mm, 10Nm, one in 3 different places	Additional attenuation: ≤0.4dB after test
Repeated bending	IEC 60794-1-2-E6	R=30H	Additional attenuation: ≤0.4dB after test
Temperature cycling	IEC 60794-1-2-F1	- 50°C to + 70°C	Additional attenuation: ≤0.4dB after test

\*All optical measurements at 1550nm

**Packing:** Non-returnable wooden or plastic drum, 1 or 2 km length



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