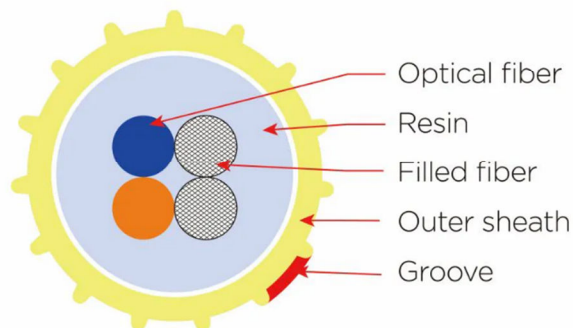


Optical Fiber CABLE

TECHNICAL DATA SHEET

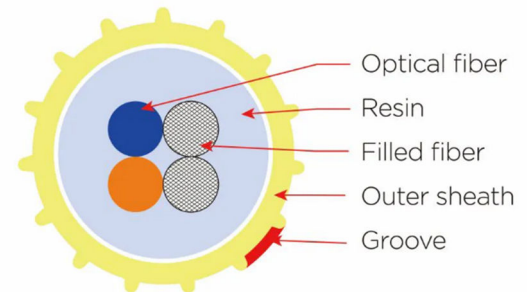
Enhanced Performance Fiber Optic Unit (EPFU) air-blown ultra-thin fiber optic cable



Enhanced Performance Fiber Optic Unit (EPFU) **air-blown ultra-thin fiber optic cable**

Product Description:

The **Enhanced Performance Fiber Optic Unit (EPFU)** is an ultra-thin, lightweight fiber optic cable designed specifically for **air-blown installation into microducts**. Its compact construction and low-friction outer surface provide excellent blowing performance, making it ideal for FTTH and FTTx networks where existing microduct infrastructure is available.



EPFU technology allows rapid deployment of optical fiber while minimizing cable size, installation effort, and duct occupancy.

Features

- Ultra-thin and lightweight construction
- Designed for air-blown installation
- Available in multiple fiber counts
- Extremely small outer diameter
- Low-friction outer surface for efficient blowing
- Excellent blowing distance
- High installation speed

- Suitable for microduct infrastructure
- Flexible and easy to handle
- Low installation force
- Excellent fiber protection
- Water-resistant construction
- UV-resistant outer coating
- Suitable for FTTH and FTTx networks
- Enables future network expansion
- Minimizes duct space requirements

Applications

- **FTTH** – Fiber-to-the-Home networks
- **FTTx** – Fiber access networks
- **Microduct Networks** – Air-blown fiber deployment
- **Access Networks** – Subscriber connections
- **Metropolitan Networks** – High-density optical networks
- **Data Communication** – High-speed fiber communication

General Specifications

Parameter	Specification
Product Name	Enhanced Performance Fiber Optic Unit (EPFU)
Cable Type	Air-Blown Ultra-Thin Fiber Optic Cable
Fiber Type	Single-Mode
Fiber Standard	ITU-T G.657.A1 / G.652.D
Installation Method	Air-Blowing / Jetting
Application	Microduct
Cable Construction	Ultra-Thin Fiber Unit
Outer Sheath	Low-Friction Polymer
Sheath Color	Black
Installation	Indoor / Outdoor

Cable Construction

Component	Specification
Optical Fiber	Single-Mode Optical Fiber
Fiber Coating	250 μm
Fiber Protection	Compact Fiber Unit
Strength Member	Dielectric Strength Elements
Water Protection	Water-Resistant Material
Outer Layer	Low-Friction Polymer
Surface	Smooth / Low Friction
Construction	Ultra-Thin

Optical Fiber Characteristics

Parameter	G.657.A1 / G.652.D
Fiber Type	Single-Mode
Core / Cladding	9/125 μm
Operating Wavelength	1310 / 1550 nm
Typical Attenuation @1310 nm	≤ 0.35 dB/km
Typical Attenuation @1550 nm	≤ 0.21 dB/km

Maximum Attenuation @1310 nm	≤ 0.36 dB/km
Maximum Attenuation @1550 nm	≤ 0.22 dB/km
Cladding Diameter	125 ± 1 μ m
Coating Diameter	245 ± 10 μ m
Cable Cut-off Wavelength	≤ 1260 nm

Mechanical Characteristics

Parameter	Specification
Tensile Strength	According to cable design
Crush Resistance	According to cable design
Minimum Bend Radius	According to cable design
Cable Diameter	Ultra-thin; according to fiber count
Cable Weight	According to fiber count
Blowing Distance	According to cable and microduct design
Installation Method	Air-Blowing

Environmental Characteristics

Parameter	Specification
Operating Temperature	-40°C to +70°C
Installation Temperature	-20°C to +60°C
Storage Temperature	-40°C to +70°C
UV Resistance	Yes
Water Resistance	Yes
Outdoor Application	Yes

Fiber Color Code

Fiber No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua