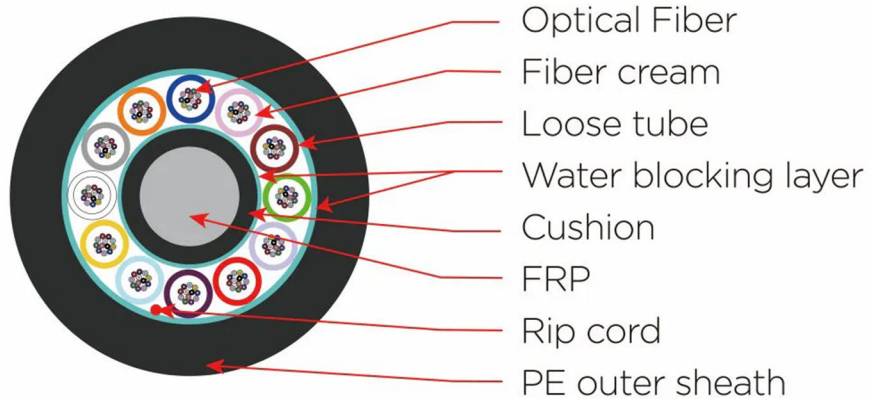


Optical Fiber CABLE

TECHNICAL DATA SHEET

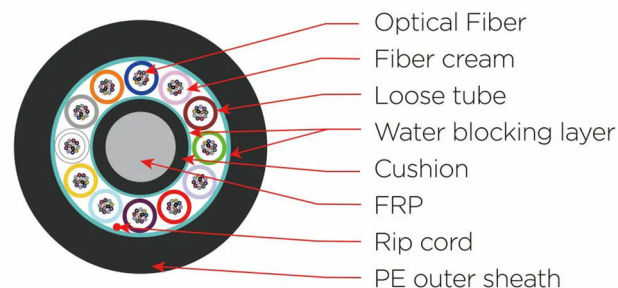
Layer-stranded PE sheathed air-blown micro cable (24-288 cores)



Layer-stranded PE sheathed air-blown micro cable (24-288 cores)

Product Description:

The Layer-Stranded PE Sheathed Air-Blown Micro Cable is a high-density optical fiber cable designed for installation in microducts using air-blowing technology. The layer-stranded construction provides a compact and flexible cable structure with high fiber density, while the PE outer sheath provides mechanical protection, moisture resistance, and reliable performance in outdoor environments.



The cable is available from 24 to 288 optical fibers and is suitable for FTTH, FTTx, access, metropolitan, backbone, and high-capacity communication networks.

General Specifications

Parameter	Specification
Product Name	Layer-Stranded PE Sheathed Air-Blown Micro Cable
Cable Type	Air-Blown Micro Optical Fiber Cable
Fiber Count	24–288 FO
Fiber Type	Single-Mode
Fiber Standard	ITU-T G.652.D

Cable Structure	Layer-Stranded
Installation Method	Air-Blowing / Jetting
Application	Microduct
Outer Sheath Material	PE
Outer Sheath Color	Black
Cable Construction	Compact / High-Density
Installation	Indoor / Outdoor

Optical Characteristics

Component	Specification
Optical Fiber	Single-Mode G.652.D
Fiber Coating	250 μ m
Fiber Arrangement	Layer-Stranded
Central Strength Member	Dielectric Strength Member
Water Protection	Water-Blocking Material
Outer Sheath	PE
Outer Sheath Color	Black
Surface	Low-Friction

Mechanical Characteristics

Parameter	Specification
Tensile Strength	According to cable design
Crush Resistance	According to cable design
Minimum Bend Radius – Installation	According to cable design
Minimum Bend Radius – Operation	According to cable design
Cable Diameter	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

Moisture Resistance	Excellent
Outer Sheath	PE

Cable Features

- Available in 24–288 optical fibers
- Designed for air-blowing / jetting installation
- Layer-stranded construction
- High fiber density in a compact cable design
- Lightweight and flexible
- Low-friction outer surface for efficient blowing
- PE outer sheath for mechanical and environmental protection
- Excellent moisture and water resistance
- UV-resistant sheath for outdoor applications
- Easy and fast installation in microducts
- Suitable for long-distance air-blowing deployment
- Low installation force
- Excellent fiber protection
- Suitable for high-capacity optical networks
- Supports future network expansion

Applications

- **FTTH** – Fiber-to-the-Home networks
- **FTTx** – Fiber access and distribution networks
- **Microduct Networks** – Air-blown fiber deployment
- **Access Networks** – High-density subscriber networks
- **Metropolitan Networks** – High-capacity optical networks
- **Backbone Networks** – High-fiber-count communication links
- **Data Centers** – High-density fiber connectivity

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