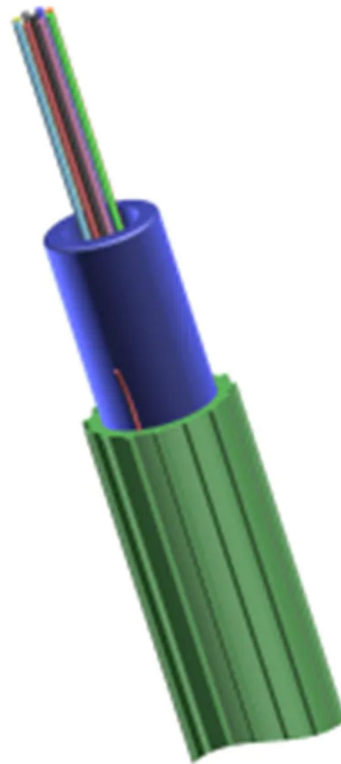


## Optical Fiber CABLE

### TECHNICAL DATA SHEET

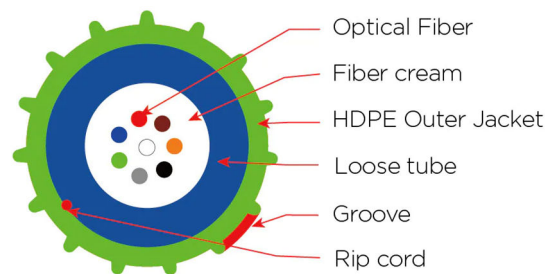
#### Mini 2-24 Cores Air-blowing Micro Optical Fiber Cable



## **Mini 2-24 Cores Air-blowing Micro Optical Fiber Cable**

### **Product Description:**

The Mini 2–24 Cores Air-Blowing Micro Optical Fiber Cable is a compact and lightweight optical fiber cable designed for high-speed communication networks and installation through micro ducts using air-blowing technology. Its small diameter and low weight enable efficient installation over long distances while minimizing duct space requirements. The cable is suitable for FTTH, FTTx, access, metropolitan, and data communication networks.



### **General Specifications**

| <b>Parameter</b>    | <b>Specification</b>                                  |
|---------------------|-------------------------------------------------------|
| Product Name        | Mini 2–24 Cores Air-Blowing Micro Optical Fiber Cable |
| Cable Type          | Air-Blowing Micro Optical Fiber Cable                 |
| Fiber Count         | 2 / 4 / 6 / 8 / 12 / 16 / 24 FO                       |
| Fiber Type          | Single-Mode                                           |
| Fiber Standard      | ITU-T G.652.D                                         |
| Installation Method | Air-Blowing / Jetting                                 |
| Application         | Microduct Networks                                    |
| Construction        | Mini Micro Cable                                      |

|                  |                                  |
|------------------|----------------------------------|
| Outer Sheath     | HDPE                             |
| Sheath Color     | Black                            |
| Water Protection | Water-Resistant / Water-Blocking |
| Installation     | Indoor / Outdoor                 |

## Optical Characteristics

| Parameter                    | Specification              |
|------------------------------|----------------------------|
| Fiber Type                   | G.652.D Single-Mode        |
| Core / Cladding              | 9/125 $\mu\text{m}$        |
| Operating Wavelength         | 1310 / 1550 nm             |
| Maximum Attenuation @1310 nm | $\leq 0.36$ dB/km          |
| Maximum Attenuation @1550 nm | $\leq 0.22$ dB/km          |
| Typical Attenuation @1310 nm | $\leq 0.35$ dB/km          |
| Typical Attenuation @1550 nm | $\leq 0.21$ dB/km          |
| Cladding Diameter            | $125 \pm 1$ $\mu\text{m}$  |
| Coating Diameter             | $245 \pm 10$ $\mu\text{m}$ |
| Cable Cut-off Wavelength     | $\leq 1260$ nm             |

## Mechanical Characteristics

| Parameter                          | Specification                          |
|------------------------------------|----------------------------------------|
| Tensile Strength                   | According to cable design              |
| Crush Resistance                   | According to cable design              |
| Minimum Bend Radius – Installation | $\geq 20 \times \text{Cable Diameter}$ |
| Minimum Bend Radius – Operation    | $\geq 10 \times \text{Cable Diameter}$ |
| Cable Diameter                     | According to fiber count               |
| Cable Weight                       | According to fiber count               |
| Blowing Distance                   | According to cable / 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            |

## Cable Features

- Available from 2 to 24 optical fibers
- Designed for air-blowing installation
- Compact and lightweight construction
- Small outer diameter for micro duct applications
- Low friction outer sheath for smooth blowing
- Excellent blowing performance over long distances
- High installation efficiency
- Low optical attenuation
- Excellent fiber protection
- Flexible and easy to install
- Suitable for new and existing micro duct infrastructure
- UV-resistant outer sheath for outdoor applications
- Water-resistant construction

## Applications

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

## 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 |