

Optical Fiber CABLE

TECHNICAL DATA SHEET

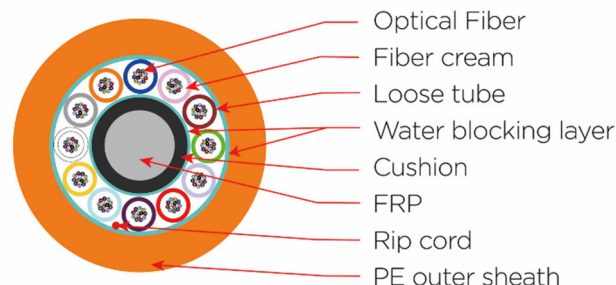
Layer-twisted nylon sheathed air-blown micro cable (24-288 cores)



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Product Description:

The Layer-Twisted Nylon Sheathed Air-Blown Micro Cable is a high-density micro-optical fiber cable designed for installation in micro ducts using air-blowing technology. The layer-twisted construction provides efficient fiber management and a compact cable diameter, while the nylon outer sheath offers excellent mechanical strength, flexibility, abrasion resistance, and low friction during installation.



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

General Specifications

Parameter	Specification
Product Name	Layer-Twisted Nylon 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-Twisted

Installation Method	Air-Blowing / Jetting
Application	Micro duct
Outer Sheath Material	Nylon
Sheath Color	Black
Cable Construction	Compact / High-Density
Installation	Indoor / Outdoor

Optical Characteristics

Parameter	Specification
Fiber Type	G.652.D Single-Mode
Core / Cladding	9/125 μm
Operating Wavelength	1310 / 1550 nm
Maximum Attenuation @1310 nm	≤ 0.36 dB/km
Maximum Attenuation @1550 nm	≤ 0.22 dB/km
Typical Attenuation @1310 nm	≤ 0.35 dB/km
Typical Attenuation @1550 nm	≤ 0.21 dB/km
Cladding Diameter	125 ± 1 μm
Coating Diameter	245 ± 10 μm
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 – 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
Abrasion Resistance	Excellent

Cable Features

- Available in 24–288 optical fibers
- Designed for air-blown installation
- Layer-twisted cable construction
- High fiber density with compact outer diameter
- Lightweight construction
- Low-friction nylon outer sheath
- Excellent abrasion and mechanical resistance
- High blowing efficiency and installation distance
- Suitable for small-diameter microducts
- Excellent flexibility and handling characteristics
- Low installation force
- Water-resistant construction
- Suitable for high-density fiber networks
- Easy installation and network expansion
- Available with single-mode optical fibers

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

Available Fiber Counts

Fiber Count	Configuration
24 FO	Layer-Twisted
48 FO	Layer-Twisted
72 FO	Layer-Twisted
96 FO	Layer-Twisted
144 FO	Layer-Twisted
192 FO	Layer-Twisted
216 FO	Layer-Twisted
288 FO	Layer-Twisted