



Optical Fiber CABLE

TECHNICAL DATA SHEET

1FO Double Sheath Access Network Drop Fiber Optical Cable for Vertical Cabling



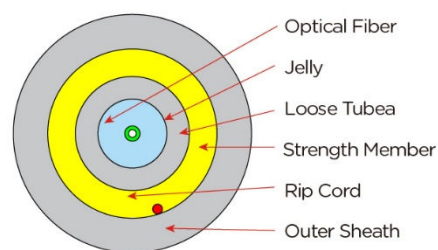
1FO Double Sheath Access Network Drop Fiber Optical Cable for Vertical Cabling

Product Description

The 1FO Double Sheath Access Network Drop Fiber Optical Cable is a compact and robust optical fiber cable designed for vertical cabling and access network applications.

The cable contains one single-mode optical fiber protected by a double-sheath structure, providing enhanced mechanical protection and improved resistance to external environmental and installation stresses.

The cable is suitable for vertical building cabling, riser applications, FTTH/FTTx access networks and indoor fiber distribution.



Features

- 1 Fiber Optic Core
- Single Mode 9/125 μm optical fiber
- ITU-T G.657.A2 bend-insensitive fiber
- Double-sheath construction for enhanced protection
- Designed for vertical and riser cabling
- Compact and lightweight construction
- High mechanical protection
- Good resistance to abrasion and installation stress



- Flexible and easy to route
- Suitable for FTTH and FTTx networks
- Suitable for indoor access network applications
- Suitable for floor-to-floor fiber connections
- LSZH outer sheath option for indoor installations
- Non-metallic construction
- Easy stripping and termination

Applications

- Vertical building cabling
- Riser cabling
- FTTH access networks
- FTTx networks
- Indoor access networks
- Floor-to-floor fiber connections
- Building backbone connections
- Indoor optical distribution
- Customer premises networks
- Optical distribution frames
- Building entrance cabling
- Indoor fiber termination and distribution

Cable Construction

Item	Cable Element	Description
1	Optical Fiber	1 × Single Mode
2	Fiber Size	9/125 μm
3	Fiber Standard	ITU-T G.657.A2
4	Primary Protection	Tight Buffer / Fiber Buffer
5	Strength Member	Aramid Yarn
6	Inner Sheath	Protective Sheath
7	Outer Sheath	LSZH / PE
8	Cable Structure	Double Sheath
9	Fiber Count	1FO

Optical Fiber Characteristics

Parameter	Specification
Fiber Type	Single Mode
Fiber Size	9/125 μm
Fiber Standard	ITU-T G.657.A2
Fiber Count	1
Operating Wavelength	1310 / 1550 nm
Maximum Attenuation @ 1310 nm	≤ 0.40 dB/km

Maximum Attenuation @ 1550 nm	≤ 0.30 dB/km
Cable Cut-off Wavelength	≤ 1260 nm
Proof Test	≥ 0.69 GPa

Bending Characteristics

Parameter	Specification
Fiber Category	G.657.A2
Minimum Fiber Design Radius	7.5 mm
Bending Performance	Bend-insensitive
Application	Tight Routing / Vertical Cabling

Sheath Characteristics

Parameter	Inner Sheath	Outer Sheath
Material	LSZH / PE	LSZH / PE
Function	Primary protection	Mechanical and environmental protection
Colour	According to design	Black / Customer Specified
Application	Indoor	Indoor / Outdoor
UV Resistance	According to material	Available for outdoor version

Standards and Compliance

The cable shall comply with applicable requirements of:

- ITU-T G.657.A2 – Characteristics of a bending-loss insensitive single-mode optical fiber and cable
- ITU-T G.652.D – Single-mode optical fiber characteristics, where applicable
- IEC 60793 – Optical Fibers
- IEC 60794 – Optical Fiber Cables
- IEC 60794-2 – Indoor Optical Fiber Cables
- IEC 60332 – Flame propagation, where applicable
- IEC 60754 – Halogen gas / acidity requirements, where applicable
- IEC 61034 – Smoke density, where applicable
- RoHS – Restriction of Hazardous Substances, where applicable