FiberLight

Optical Fiber CABLE

TECHNICAL DATA SHEET

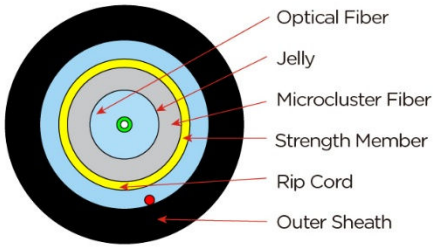
Double Sheath Access Network 1 Core Drop Fiber Optical Cable for Vertical Cabling



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

Product Description

The Double Sheath Access Network 1 Core Drop Fiber Optical Cable is a compact and robust optical fiber cable designed for vertical cabling, access networks and indoor/outdoor fiber distribution applications.



The cable incorporates one single-mode optical fiber protected by a double-sheath construction, providing enhanced mechanical and environmental protection compared with conventional single-sheath drop cables.

The cable is suitable for vertical routing inside buildings, access network connections, FTTH/FTTx applications and transitions between different installation environments.

Features

- 1 Core Single Mode optical fiber
- 9/125 µm optical fiber
- Available with bend-insensitive G.657 fiber
- Double-sheath construction for enhanced protection
- Suitable for vertical cabling applications
- Compact and lightweight design
- High mechanical protection

- Improved resistance to abrasion and external mechanical stress
- Suitable for indoor access network applications
- Suitable for vertical building installations
- Easy stripping and installation
- Flexible construction for convenient routing
- Suitable for FTTH and FTTx networks
- Suitable for building access and distribution applications
- Available with LSZH outer sheath according to application
- Non-metallic construction can be provided

Applications

- Vertical building cabling
- FTTH access networks
- FTTx networks
- Indoor access networks
- Building backbone connections
- Riser cabling
- Floor-to-floor fiber connections
- Indoor distribution networks
- Customer premises access
- Optical distribution systems

Cable Construction

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

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

Macrobending Characteristics

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

Sheath Characteristics

Parameter	Inner Sheath	Outer Sheath
Material	LSZH / PE	LSZH / PE
Function	Primary mechanical protection	Environmental and mechanical 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 requirements, where applicable
- RoHS – Restriction of Hazardous Substances, where applicable
- licable