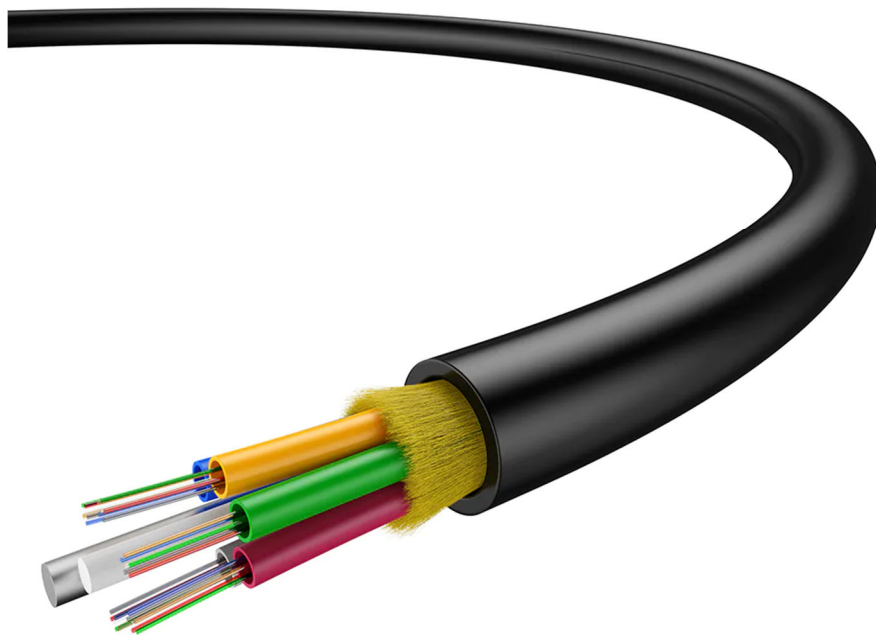


Optical Fiber CABLE

TECHNICAL DATA SHEET

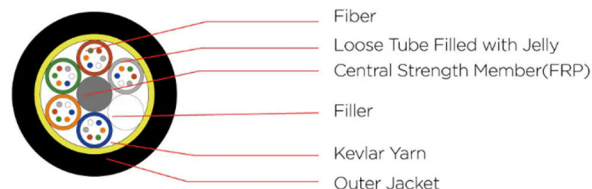
Outdoor FTTH ADSS Fiber Optic Cable All Dielectric Self Supporting



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Product Description:

Outdoor FTTH ADSS Fiber Optic Cable is an all-dielectric, self-supporting aerial fiber optic cable designed for outdoor FTTH/FTTx and telecommunication networks. The cable contains no metallic components and can be installed aerially without an additional messenger wire.



The cable typically consists of single-mode optical fibers housed in loose tubes, a dielectric FRP central strength member, aramid yarn reinforcement, water-blocking materials, and a UV-resistant polyethylene outer sheath.

Features

- All-dielectric construction
- Self-supporting aerial installation
- No metallic messenger required
- Excellent tensile strength
- Lightweight construction
- UV-resistant outdoor sheath
- Water-blocking protection
- Low optical attenuation

Construction

Component	Specification
Cable Type	ADSS
Construction	All Dielectric Self-Supporting
Fiber Type	Single-Mode
Fiber Standard	ITU-T G.652.D
Fiber Category	OS2
Fiber Count	2–144+ fibers, depending on design
Fiber Coating	250 μm
Loose Tube Material	PBT
Central Strength Member	FRP
Peripheral Strength Member	Aramid Yarn
Water Blocking	Water-blocking material / swellable material
Inner Sheath	MDPE / PE
Outer Sheath	HDPE / PE
Outer Sheath Color	Black
Installation	Outdoor / Aerial

Optical Specifications

Parameter	Specification
Fiber Type	Single-Mode
Fiber Standard	ITU-T G.652.D
Core / Cladding	9/125 μm
Operating Wavelength	1310 / 1550 nm
Attenuation @ 1310 nm	≤ 0.36 dB/km
Attenuation @ 1550 nm	≤ 0.22 dB/km
Cable Cut-off Wavelength	≤ 1260 nm
Fiber Coating Diameter	250 μm

Mechanical Specifications

Parameter	Specification
Central Strength Member	FRP
Peripheral Strength Member	Aramid Yarn
Tensile Strength	According to span design
Rated Tensile Strength (RTS)	According to cable design
Maximum Allowable Tension (MAT)	According to cable design

Crush Resistance	According to cable design
Minimum Bend Radius – Installation	$\geq 20 \times \text{Cable OD}$
Minimum Bend Radius – Operation	$\geq 10 \times \text{Cable OD}$
Installation	Aerial / Self-Supporting

Environmental Specifications

Parameter	Specification
Installation Temperature	-10°C to +70°C*
Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +70°C
Outer Sheath	UV-resistant PE/HDPE
Water Protection	Longitudinal water blocking
Installation Environment	Outdoor