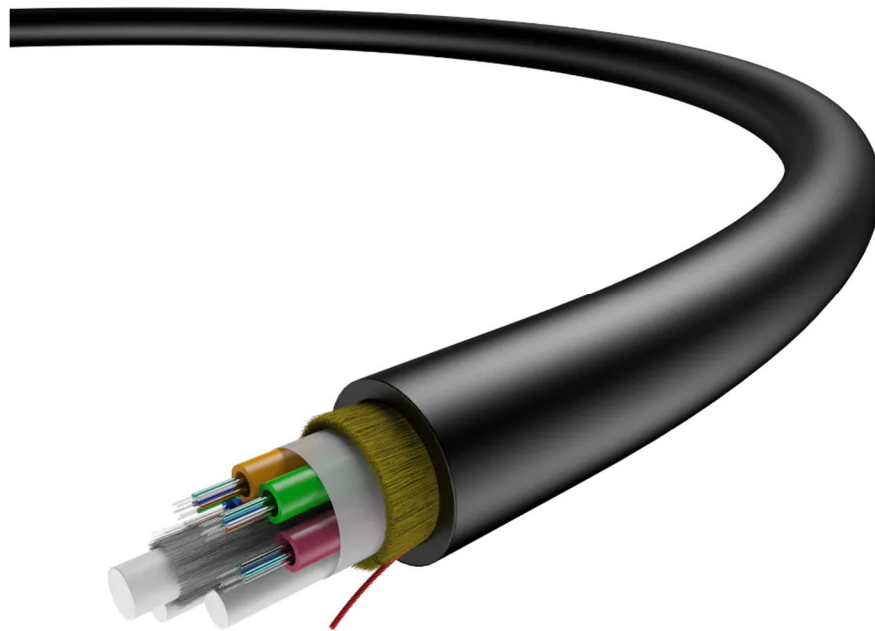


Optical Fiber CABLE

TECHNICAL DATA SHEET

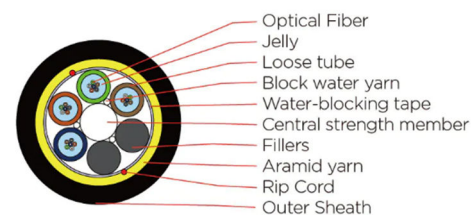
ADSS Single sheath All Dielectric Self-supporting Aerial Cable - ADSS-48FO



ADSS Single sheath All Dielectric Self-supporting Aerial Cable - ADSS-48FO

Product Description:

ADSS-48FO is a Single Sheath All-Dielectric Self-Supporting Aerial Fiber Optic Cable designed for outdoor aerial telecommunication and FTTH networks. The cable has a fully dielectric construction with no metallic components and incorporates a FRP central strength member, PBT loose tubes, aramid yarn reinforcement, water-blocking materials, and a black PE outer sheath.



Features

- All-dielectric construction
- No metallic components
- Self-supporting aerial installation
- Non-conductive structure
- Lightweight and small cable diameter
- High tensile strength
- Low linear expansion coefficient
- Wide operating temperature range

Construction

Parameter	Specification
Cable Type	ADSS
Fiber Count	48 Fibers
Fiber Category	G.652.D
Structure	1 + 6
Central Strength Member	FRP
Loose Tube Material	PBT
Number of Loose Tubes	4
Fibers per Tube	12
Filler	2
Water Blocking	Water-blocking yarns and tape
Rip Cord	2 pcs
Peripheral Strength Member	Aramid yarns
Outer Sheath Material	PE
Outer Sheath Color	Black

Mechanical & Dimensional Characteristics

Parameter	Specification
Cable Diameter	10.5 ± 0.5 mm
Cable Weight	100 ± 10 kg/km
Maximum Allowed Tensile (MAT)	2500 N
Standard Span	100 m
Crush Resistance – Short Term	2000 N/100 mm
Minimum Bend Radius – Operation	15 × Cable Diameter
Minimum Bend Radius – Installation	25 × Cable Diameter

Environmental Characteristics

Parameter	Specification
Operating Temperature	-40°C to +70°C
Installation Temperature	-20°C to +60°C
Storage & Shipping Temperature	-40°C to +70°C

Optical Fiber Characteristics

G.652.D Single-Mode Fiber

Parameter	Specification
Fiber Type	G.652.D
Operating Wavelength	1310 / 1550 nm
Attenuation – Typical	0.35 / 0.21 dB/km
Attenuation – Maximum	0.40 / 0.30 dB/km
Zero Dispersion Slope	≤ 0.091 ps/km·nm ²
Dispersion (1285–1340 nm)	-3.5 to +3.5 ps/km·nm
Mode Field Diameter @1310 nm	9.1 ± 0.4 μm
Cable Cutoff Wavelength	≤ 1260 nm
Cladding Diameter	125 ± 1.0 μm
Minimum Bend Radius	16 mm

Fiber Color Code

No.	Color
1	Blue
2	Orange
3	Green
4	Brown

5	Grey
6	Natural
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Aqua

Applicable Standard

Standard	Description
ITU-T G.652.D	Characteristics of single-mode optical fiber and cable
IEC 60794-4-20	ADSS aerial optical cable specification