

Optical Fiber CABLE

TECHNICAL DATA SHEET

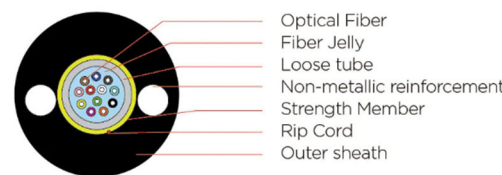
Miniature ADSS Drop Cable – Double Sheath for Access Network Drop Cable



Miniature ADSS Drop Cable – Double Sheath for Access Network Drop Cable

Product Description:

The Miniature ADSS Drop Cable is designed for access network drop applications. The 250 μm optical fibers are positioned in a loose tube made of high-modulus plastic. The loose tube is filled with a water-resistant filling compound. A water-blocking material is applied to maintain a compact and watertight cable structure.



Two parallel non-metallic reinforcement members are incorporated into the cable structure to provide mechanical strength. The cable is completed with a Polyethylene (PE) outer sheath.

Features

- Can be installed without a power outage.
- Protective cover with superior corrosion resistance.
- Lightweight and small cable diameter, reducing the impact of ice, wind force, and load on towers and supports.
- Precision control of aramid reinforcement technology improves the cable's tensile ability.
- Precision control of fiber length and cable twisted pitch ensures excellent tensile performance and temperature characteristics.

Dimensions and Construction

Item	Parameter	Description
Optical Fiber	Fiber Count	1–12 FO
	Fiber Type	G.652D
	Fiber Color	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Aqua
Loose Tube	Color	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Aqua
	Material	PBT
	Structure	Jelly
Strength Member	Material	2 × FRP
Sheath	Material	PE
	Color	Black
Additional Strength	Material	Selective High-Tensile Yarn

Fiber Color Code

Fiber No.	Color
1	Blue
2	Orange
3	Green
4	Brown
5	Grey
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Aqua

Cable Construction

Component	Specification
-----------	---------------

Optical Fiber	250 μm
Fiber Count	1–12 FO
Fiber Type	G.652D
Loose Tube Material	PBT
Loose Tube Structure	Jelly
Filling Compound	Water-resistant filling compound
Water Blocking	Water-blocking material
Strength Members	2 $\times$ FRP
Additional Strength	Selective High-Tensile Yarn
Outer Sheath Material	PE
Outer Sheath Color	Black
Cable Type	Miniature ADSS Drop Cable
Construction	Double Sheath
Installation	Aerial / Outdoor

Applications

- Aerial

- Outdoor
- Access network drop cable applications.

Optical Fiber Attenuation – Single Mode

Parameter	G.652D	G.657A1	G.657A2	G.657B3
Wavelength	1310 / 1550 nm	1310 / 1550 nm	1310 / 1550 nm	1310 / 1550 nm
Attenuation – Typical	0.35 / 0.21 dB/km	0.35 / 0.21 dB/km	0.35 / 0.21 dB/km	0.35 / 0.21 dB/km
Attenuation – Maximum	0.40 / 0.30 dB/km	0.40 / 0.30 dB/km	0.40 / 0.30 dB/km	0.40 / 0.30 dB/km
Zero Dispersion Slope	≤ 0.091 ps/(km·nm ²)	≤ 0.092 ps/(km·nm ²)	≤ 0.092 ps/(km·nm ²)	≤ 0.092 ps/(km·nm ²)
Dispersion (1285–1340 nm)	-3.5 to +3.5 ps/(nm·km)	-3.5 to +3.5 ps/(nm·km)	-3.5 to +3.5 ps/(nm·km)	-3.5 to +3.5 ps/(nm·km)
Mode Field Diameter @1310 nm	9.1 ± 0.4 μm	8.8 ± 0.4 μm	8.8 ± 0.4 μm	8.6 ± 0.4 μm
Cable Cutoff Wavelength	≤ 1260 nm	≤ 1260 nm	≤ 1260 nm	≤ 1260 nm

Minimum Bend Radius	16 mm	10 mm	7.5 mm	5 mm
Cladding Diameter	$125 \pm 1.0 \mu\text{m}$	$125 \pm 1.0 \mu\text{m}$	$125 \pm 1.0 \mu\text{m}$	$125 \pm 1.0 \mu\text{m}$