ADSS Fiber Cable Double Jacket 96 Core

The all-dielectric self-supporting optical cable (ADSS) is metal-free, tension-resistant, self-supporting, high-insulation, non-inductive, thin, light, easy to construct and economical. It is a combined optical cable made by winding optical fiber bundles around the central reinforcement and subjected to protection measures such as insulation, waterproofing, reinforcement, and sheathing.

Place of Origin: Shenzhen, China

Brand Name: OPTICO

Model Number: OP-ADSS-96F-2D

Number of Conductors: ≥ 10

Product Name: ADSS Fiber Cable Double Jacket 96 Core

Jacket: PE/AT

Color: Black

Large Span: Over 1000m

Life Expectancy: Over 30 years

Application: Aerial

Operating Temperature: -40°C to+70°C

Standard: IEC 6079-1; IEEE 1222-2004

Strength Material: Kevlar

Fiber Count: 96 Cores or customized

Supply Ability: 30000 km/month

Packing: wooden drum

Port: Shenzhen

Double Layer Aerial ADSS Cable is used for communication cable of overhead high-voltage electricity transmission system,it also can be used as communication cable at the areas where lighting is frequent or distance is big.

ADSS cable is loose tube stranded. Fibers, 250μm , are positioned into a loose tube made of high modulus plastics. The tubes are filled with a water-resistant filling compound. The tubes (and fillers) are stranded around a FRP (Fiber Reinforced Plastic) as a non-metallic central strength member into a compact and circular cable core. After the cable core is filled with filling compound. it is covered with thin PE (polyethylene) inner sheath. After stranded layer of aramid yarns are applied over the inner sheath as strength member, the cable is completed with PE or AT (anti-tracking) outer sheath.

Features:

1. Can be installed without shutting off the power
2. Excellent AT performance. The maximum inductive at the operating point of AT sheath can reach 25kV
3. Light weight and small diameter reducing the load caused by ice and wind and the load on towers and upholder
4. Large span lengths and the largest span is over 1000m
5. Good performance of tensile strength and temperature
6. The design life span is 30 years
7. The actual status of overhead power lines is taken into full consideration when ADSS cable is being designed.
8. For overhead power lines under 110kV, PE outer sheath is applied.
9. For power lines equal to or over 110kV. AT outer sheath is applied.
10. The dedicate design of aramid quantity and stranding process can satisfy the demand on various spans.

Applications:

1,Outdoor aerial applications
2,Low voltage transmission system(≤12 kV)
3,Railway & Telecommunication pole route
4,Subscriber & Local Area Network
5,Voice, data, video & imaging system

The color of marking is white, but if the remarking is necessary, the white color marking shall be printed newly on a different position.
An occasional unclear of length marking is permitted if both of the neighboring markings are clear.
The both cable ends are sealed with heat shrinkable end caps to prevent water ingress

Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 794-1-2-E1	- Load: Short term tension - Length of cable: about 50m	- Fiber strain £ 0.15% - Loss change £ 0.1 dB @1550 nm - No fiber break and no sheath damage
Crush Test IEC 60794-1-2-E3	- Load: Short term crush - Load time: 1min	- Loss change £ 0.05dB@1550nm - No fiber break and no sheath damage.
Impact Test IEC 60794-1-2-E4	- Points of impact: 3 - Times of per point: 1 - Impact energy: 5J	- Loss change £ 0.1dB@1550nm - No fiber break and no sheath damage.
Temperature Cycling Test YD/T901-2001-4.4.4.1	- Temperature step: +20oC→-40oC→+70oC →+20oC - Time per each step: 12 hrs - Number of cycle: 2	- Loss change £ 0.05 dB/km@1550 nm - No fiber break and no sheath damage.

Certificates

CE

CPR

ISO

RoHS

Factory Workshop

Keyworks: ADSS fiber cable, self-support, aerial dielectric fiber cable;