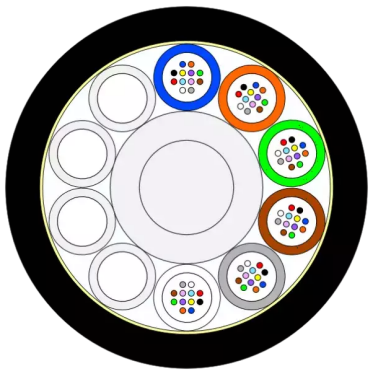
# ADSS - Loose tube cables

**AERIAL LOOSE TUBE CABLE 6X12SM SP1912**

This  cable is used for Access, Distribution, City Network and FTTx applications.It is designed to be  installed on poles and can be also installed in duct.



## STANDARDS

EN 187000
IEC 60794

## Characteristics & Applications

- Anti-Tracking HDPE outersheath for aerial installation on MV network.
- Aramid yarns armouring
- Central strength member reinforcement
- All dielectric design
- Waterproof dry core structure
- Small size ADSS design to minimize the effect of ice and wind

## Fibre Type

The cable is available with different fibre types.

## Construction

- Jelly filled tubes containing  coloured fibres
- Central FRP strength member
- Aramid yarns armouring
- HDPE outer sheath

### Installation Table for Aerial

*All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.*

**Installation properties: SP1912 with 12 fibres per tube**

The cable parameters are calculated according to the weather (summer and winter) defined below.
In different environmental conditions, please contact us to define the behavior of the cable

| Weather conditions | Installation coefficient 0.9% | Summer | Winter |
|---|---|---|---|
| | Wind speed | 105 km/h | 0 km/h |
| | Dynamic pressure | 520 N/m² | 0 N/m² |
| | Ice load | 0.00 kg/m | 0.62 kg/m |
| | Ice type | - | Ice |
| | Ice thickness | 0.0 mm | 11.9 mm |
| | Operating temperature | 15 °C | -5 °C |
| | Installation temperature | 15 °C | 15 °C |

| Cable behaviour | Span distance | Installation pulling force | Installation allowable sag | Maximum allowable sag | Max Operating force |
|---|---|---|---|---|---|
| | 50 m | 750N | 0.45m | 2.92 | 1800N |
| | 70 m | 1050N | 0.63m | 3.85 | 2290N |
| | 90 m | 1350N | 0.81m | 4.72 | 2750N |
| | 110m | 1650N | 0.99m | 5.55 | 3189N |
| | 130m | 1950N | 1.17m | 6.36 | 3613N |

* Ratio between the sag and the distance between two poles

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# Aerial Loose Tube Cable 6x12SM SP1912

## Characteristics

| | |
|---|---|
| **Construction characteristics** | |
| Fiber optic type | SM |
| Armour type | Aramid yarn |
| Outer sheath | Anti-tracking |
| Metal free | Yes |
| Strength member | FRP |
| Construction type | Loose Tube |
| **Dimensional characteristics** | |
| Number of tubes | 10 |
| Approximate weight | 108 kg/km |
| Number of optical fibres | 72 |
| Nominal outer diameter (mm) | 11.8 mm |
| **Mechanical characteristics** | |
| Maximum tensile load during service (Tl) | 370.0 daN |
| Maximum admissible traction load (Tm) | 500 daN |
| Crush resistance (IEC 60794-1-E3) | 300 N/cm |
| **Usage characteristics** | |
| Operating temperature, range | -30...70 °C |
| Storage temperature, range | -40...70 °C |
| Installation type | Aerial - self-supporting |
| Ambient installation temperature, range | 0...40 °C |
| Bending factor when laying | 20 (xD) |

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