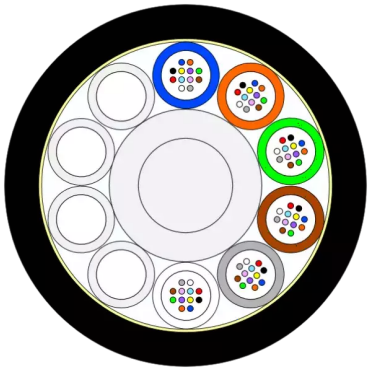
Aerial - Loose tube cables Max span 100m

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

	Installation coefficient 0.9%	Summer	Winter
Weather conditions	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

	Span distance	Installation pulling force	Installation allowable sag	Maximum allowable sag	Max Operating force
Cable behaviour	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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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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