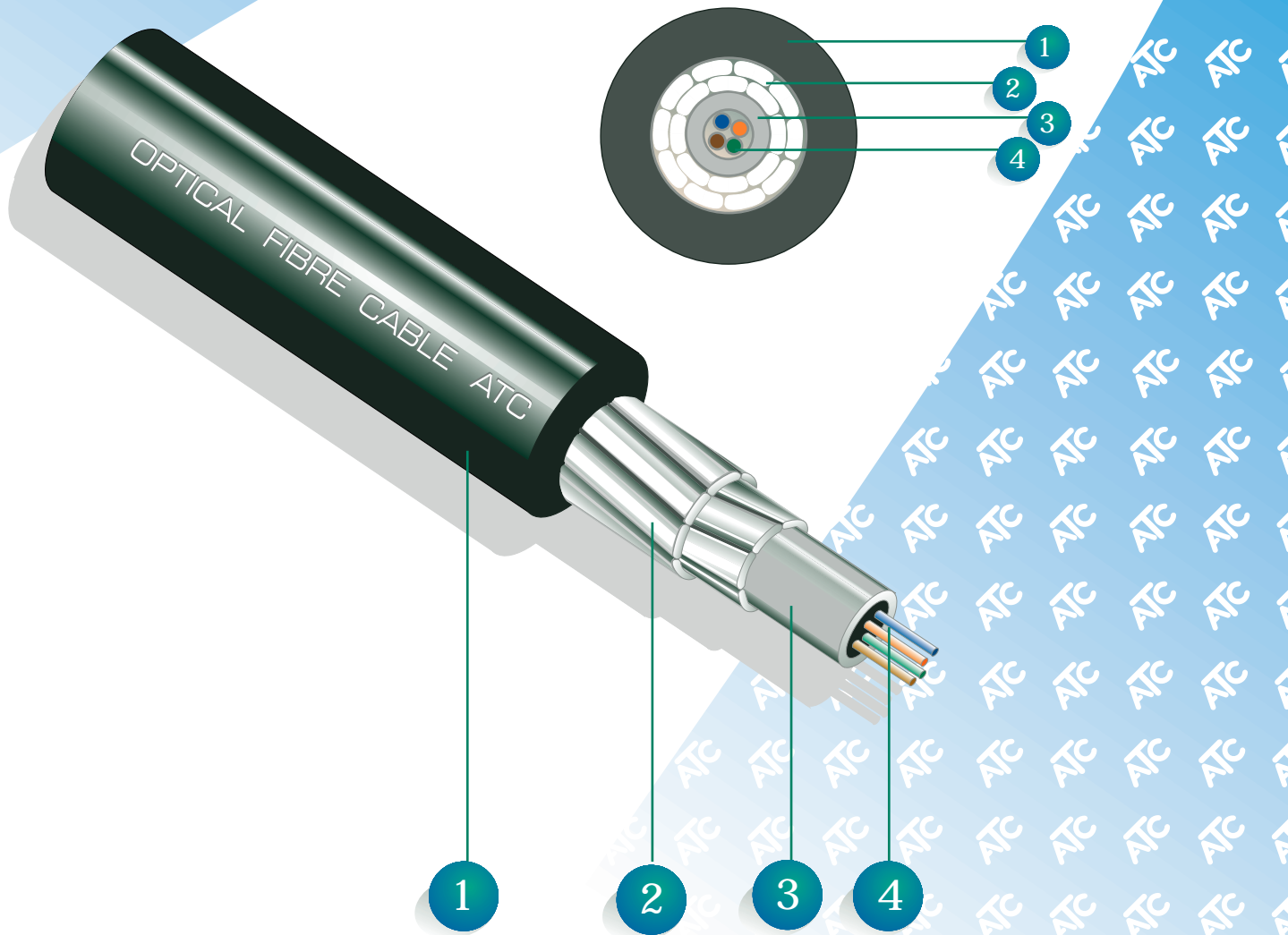




# LOW COUNT AERIAL CABLE

(Non-metallic, self-supporting cable for installation on pole routes with a span length  $\leq 83$  m)



## Cable Description

1. UV resistant Polyethylene outer sheath.
2. Double layer impregnated glass (IGC) strength member.
3. Gel filled loose tube.
4. Colour coded fibres.

OUTDOOR  
OPTICAL  
FIBRE  
CABLE



# LOW COUNT AERIAL CABLE

(Non-metallic, self-supporting cable for installation on pole routes with a span length  $\leq 83$  m)

## Product features

- The ATC “low count aerial cable” is a single loose tube aerial self-supporting cable specifically designed for installation on pole routes with spans up to 83 m.
- Though these cables are not ideally suited to the duct environment, they can be used as such, to avoid unnecessary splicing at the ends of self-supporting routes.
- The cable's main features are its low installation cost, and the speed with which this can be effected due to its lightweight and self-supporting characteristics.
- A non-metallic construction ensures lightning immunity, an important feature for aerial cable.
- The cable is furnished with non-metallic strength members, which enable it to withstand sustained Every Day Stress (EDS), as well as high loading during environmental extremes.
- The strength members are applied contra-helicly to eliminate torsional stress.
- These glass strength members have a similar thermal expansion co-efficient to that of optical fibres, and are incorporated in the construction, thereby increasing the cable's tolerance to temperature extremes.
- The cable's smooth circular profile inhibits galloping.
- The fibres are located in a single loose tube at the centre of the cable and are individually coloured for easy identification.
- The sheathing material is well dosed with Carbon Black to give the cable excellent UV resistance.
- It is recommended that only installation hardware verified according to the ATC CLAMP-APPROVAL SPECIFICATION be used. (Please contact the ATC Technical Department in this regard.)

## Typical properties

• Fibre count (up to)	8
• Diameter (mm)	8.0
• Weight (kg/km)	57
• Maximum installation load (EDS) (N)	500
• Maximum working load (N)	1 300
• Sag at EDS (m) (70 m span)	0.7
• (83 m span)	0.9
• Deflection at worst load (m) (70 m span)	1.5
• (83 m span)	1.9
• Termination grip slippage test (N)	>3000
• Minimum bend radius (mm) (right angle)	100
• (for coiling)	200
• Crush resistance (N) (via 100 mm x 100 mm plate)	2000
• Impact test (2 Nm blows / 25 mm anvil)	2
• Temperature range (°C)	-20/+70

### NOTE:

Maximum working load is the load at which fibre strain begins, and exceeds the highest anticipated cable load. (The highest anticipated load is calculated, assuming a wind speed of 125 km/h and no ice loading.)



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