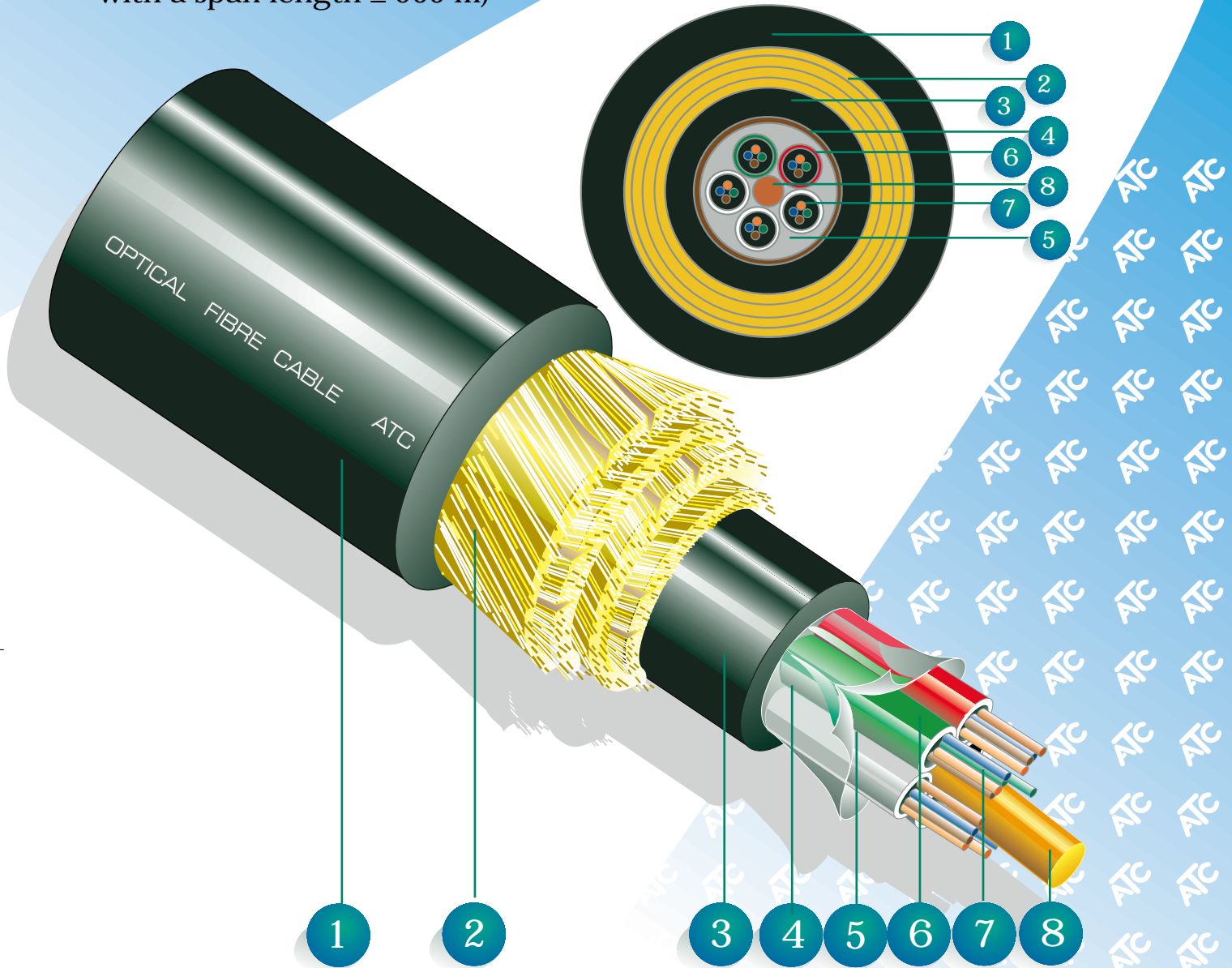




LONG SPAN AERIAL CABLE

(Non-metallic, self-supporting cable for installation on HV towers with a span length ≤ 500 m)



Cable Description

1. UV resistant outer sheath.
2. Quadruple layer aramid strength member.
3. Polyethylene bedding sheath.
4. Core binder.
5. Interstitial water blocking flooding compound.
6. Gel filled loose tubes.
7. Colour coded fibres.
8. GRP centre strength member.

OUTDOOR
OPTICAL
FIBRE
CABLE



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Product features

- The ATC “long span aerial” cable has been specifically designed for aerial self-supporting applications on HV towers, with span lengths up to 500 meters.
- The construction of the cable is totally non-metallic and can therefore be installed and maintained without the need to disrupt power services.
- An outstanding feature is the cable's excellent optical reliability for all service conditions.
- Aramid strength members are applied contra-helically in four layers to withstand installation and tensional stresses as well as high loading during environmental extremes.
- The cable's smooth circular profile inhibits galloping, and the use of correctly positioned vibration dampers will minimise aeolian vibration.
- The cable is protected by a robust polyethylene or tracking-resistant polymer sheath, with excellent UV resistance.
- The correct installation position of the cable in a high voltage environment is crucial to ensure long term reliability. Refer to ATC's Technical department for advice in this regard.
- 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

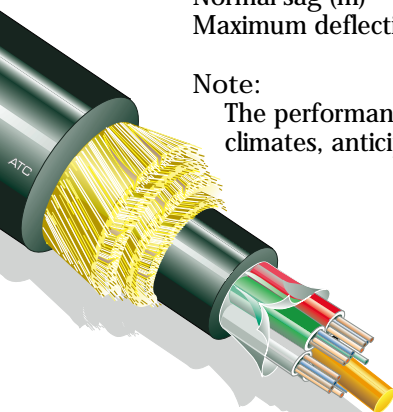
• Fibre count (up to)	30
• Nominal overall diameter (mm)	13.0
• Cable weight (kg/km)	135
• Minimum bend radius (mm)	200
• Every Day Stress (EDS) (N)	6 000
• Maximum working load (N)	9 000
• Ultimate tensile strength (UTS)(N)	35 000
• Operating temperature range (°C)	-20 to +70

Performance characteristics

Span (m)	200	300	400	500
Normal sag (m)	1.0	2.5	4.4	6.9
Maximum deflection (m)	4	8.2	13	19

Note:

The performance figures quoted in this document are specific to cable designed for tropical climates, anticipating no ice, but winds up to 125 km/h.



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