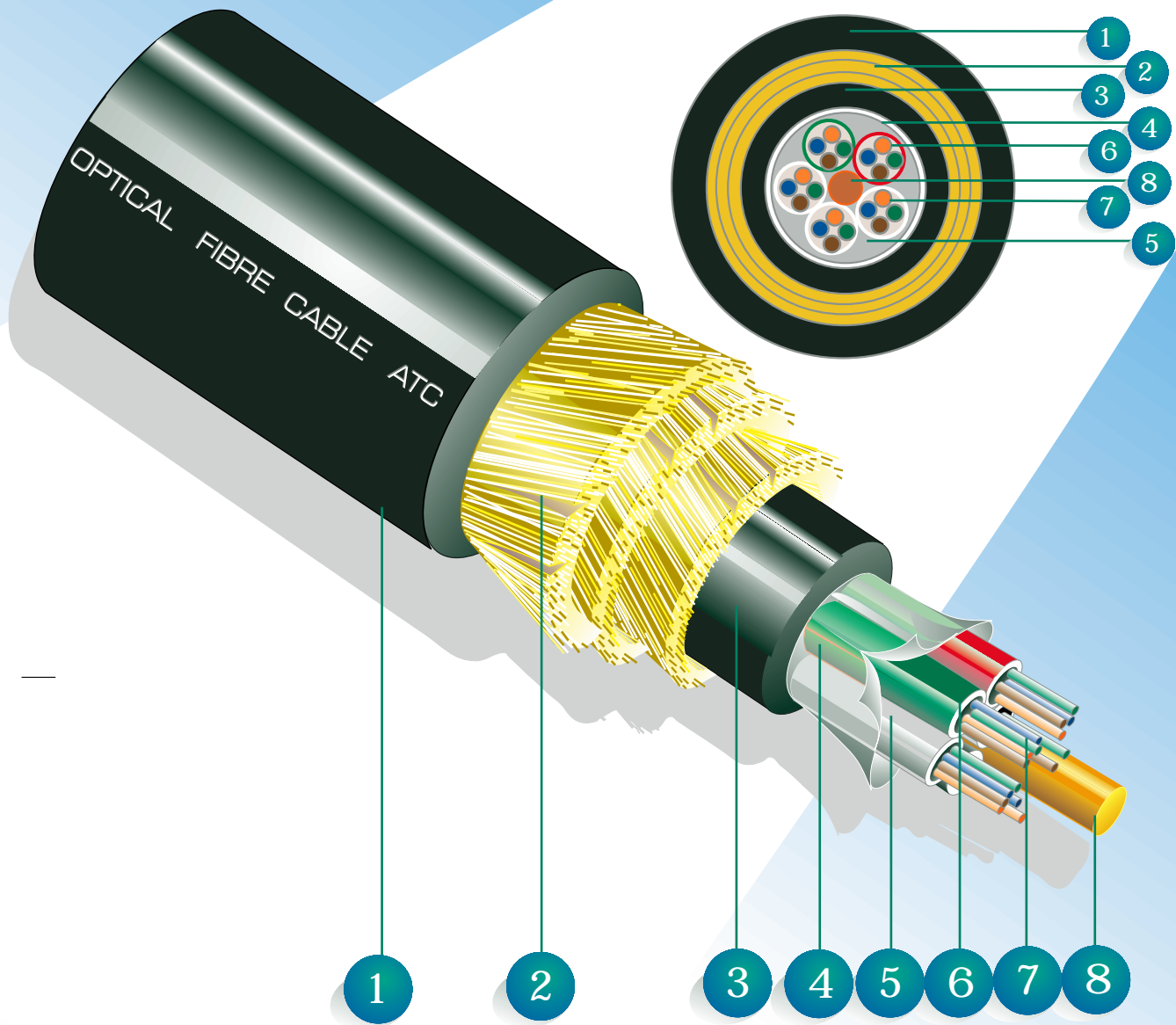




MEDIUM SPAN AERIAL CABLE

(Non-metallic, self-supporting cable for installation on pole routes and HV towers with a span length ≤ 250 m)



Cable Description

1. UV resistant outer sheath.
2. Triple 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

Technical detail overleaf

DATA SHEET: MSA/02
ISSUE DATE: 01/02/01



MEDIUM SPAN AERIAL CABLE

Non-metallic, self-supporting cable for installation on pole routes and HV towers with a span length ≤ 250 m)

Product features

- The ATC “medium span aerial” cable has specifically been designed for aerial self-supporting applications on pole routes or HV towers with span lengths up to 250 metres.
- 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.
- The series is furnished with aramid strength members, which enable the cable to withstand sustained Every Day Stress (EDS), as well as high loading during environmental extremes.
- The aramid is applied contra-helically in three layers, to eliminate installation and torsional stresses.
- The cable's smooth circular profile inhibits galloping, and when installed with 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

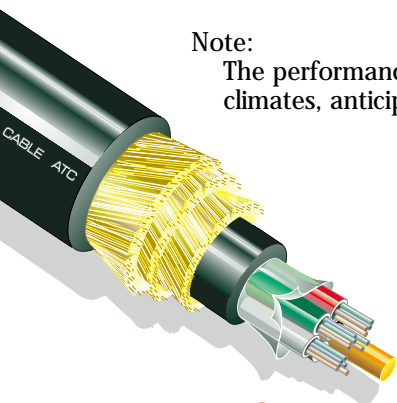
• Fibre count (up to)	30
• Overall diameter (mm)	13.0
• Cable weight (kg/km)	135
• Minimum bend radius (mm)	200
• Every Day Stress (EDS) - Installation load (N)	3 000
• Maximum working load (N)	5 200
• Ultimate Tensile Strength (UTS) (N)	20 000
• Temperature range (°C)	-20/+70

Performance characteristics

Span (m)	100	150	200	250
Normal sag (m)	0.6	1.3	2.2	3.4
Maximum deflection (m)	2.0	4.0	6.1	9.0

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.



DATA SHEET: MSA/02
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ATC (Pty) Ltd. P O Box 663, Brits 0250, South Africa.

Local enquiries:

Tel: (012) 381-1400

Fax: (012) 250-3412

E-mail: sales@atc-cable.co.za

Tel: (011) 314-1819

Fax: (011) 314-1833

E-mail: industrial@atc-cable.co.za

www.atc-cable.co.za

International enquiries:

Tel: +27 12 381-1400

Fax: +27 12 250-2072.

E-mail: exports@atc-cable.co.za