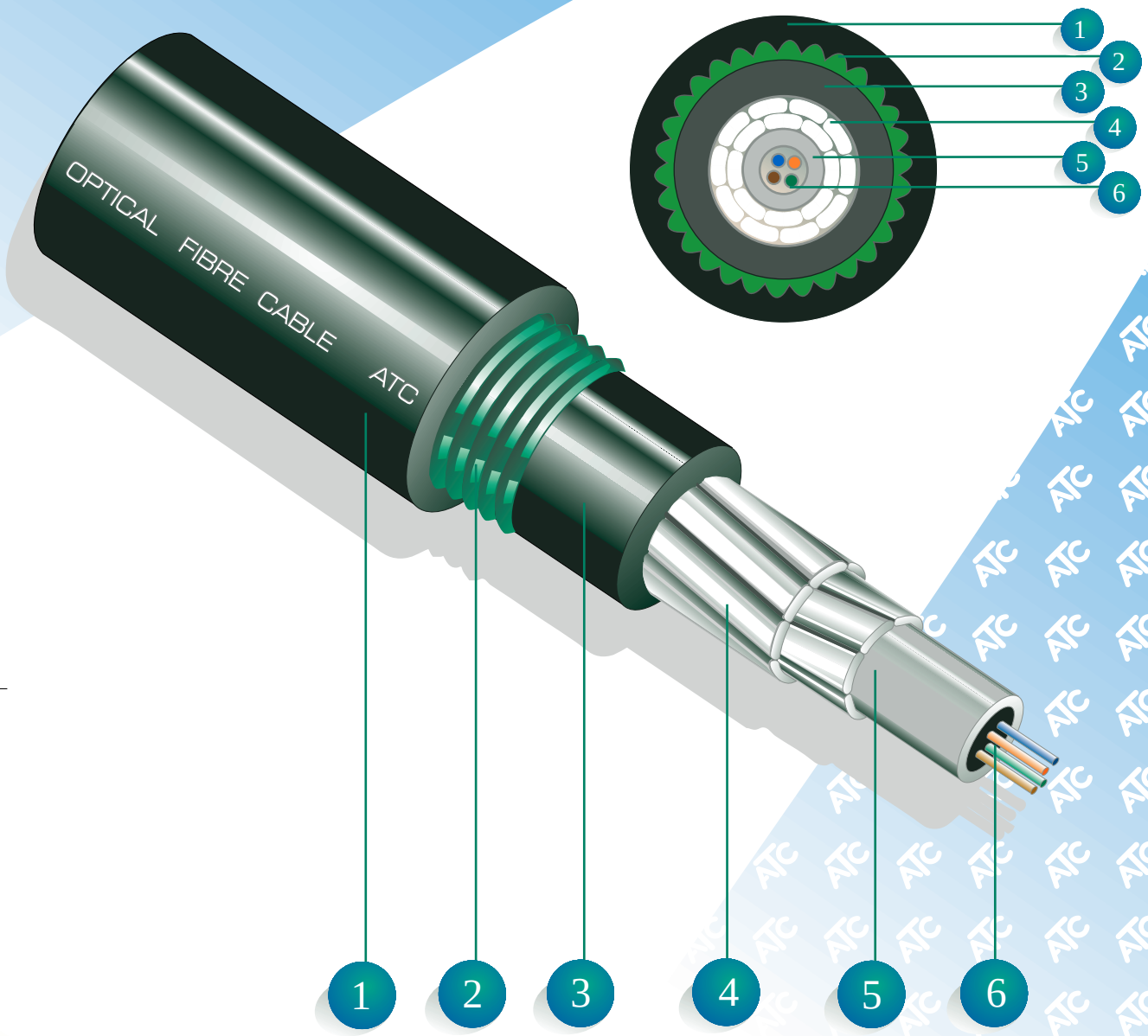
ARMOTUBE CABLE

(Low count duct cable with corrugated steel tape armouring)



Cable Description

1. Polyethylene outer sheath.
2. Plastic coated corrugated steel tape armour.
3. Polyethylene bedding sheath.
4. Non-metalic strength member.
5. Gel filled loose tube.
6. Colour coded fibres.

OUTDOOR OPTICAL FIBRE CABLE

Technical detail overleaf

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Product features

- The ATC “armotube” series are single loose tube cables specifically designed for employment of low fibre counts in a harsh environment.
- These cables have a corrugated steel tape armour, and are therefore suitable for direct burial, but can be used for a host of applications where the cable is subjected to an abnormal environment.
- The fibres are located in a single tube at the centre of the cable and are individually coloured for ease of identification.
- The series is furnished with high modulus glass strength members, applied contra-helically, to withstand high installation tensions, and to eliminate torsional stress.
- A longitudinally applied, plastic clad, corrugated steel tape armour protects the cable by essentially forming a metal lined, plastic pipe over the cable core, which provides an excellent moisture and chemical barrier.
- Damage due to lightning strikes in the vicinity of buried cable are eliminated, as the coated tape provides an open circuit at the overlap, eliminating a circumferential path for induced current.
- Corrugated steel tapes are widely recognised for their ability to resist rodent attack, and the polymer coating on the tape prevents corrosion spread, even after sheath damage.
- The tape is applied longitudinally, so the torsional stress normally associated with steel wire armoured cable is eliminated, which prevents cable spiralling, twisting, and kinking during installation.
- The steel tape armour is bonded to the sheath, which results in improved mechanical performance.
- In addition to Polyethylene, the cables are available in Low Smoke Zero Halogen (LSZH), fire retardant, non toxic sheaths to comply with the strictest building regulations.

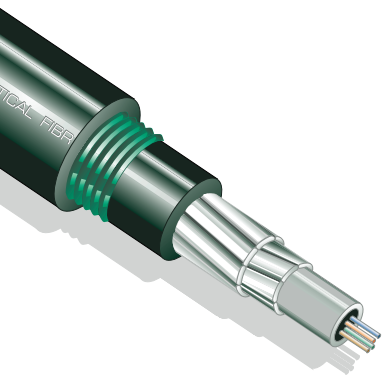
Typical properties

Fibre count (up to)	12
Diameter (mm)	13.7
Weight (kg/km)	180
Maximum short term load (N)*	2000
Maximum long term load (N)**	500
Minimum bend radius (mm)	200
Crush resistance (N) (via 100 mm x 100 mm plate)	5000
Impact test (2 Nm blows / 25 mm anvil)	50
Temperature range (˚C)	-10/+40

Note:

* Short term load is the load at which the fibre strain is less than one third of the fibre proof strain level.

**Long term load is the load at which no fibre strain occurs.



ISO 9001 SABS

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