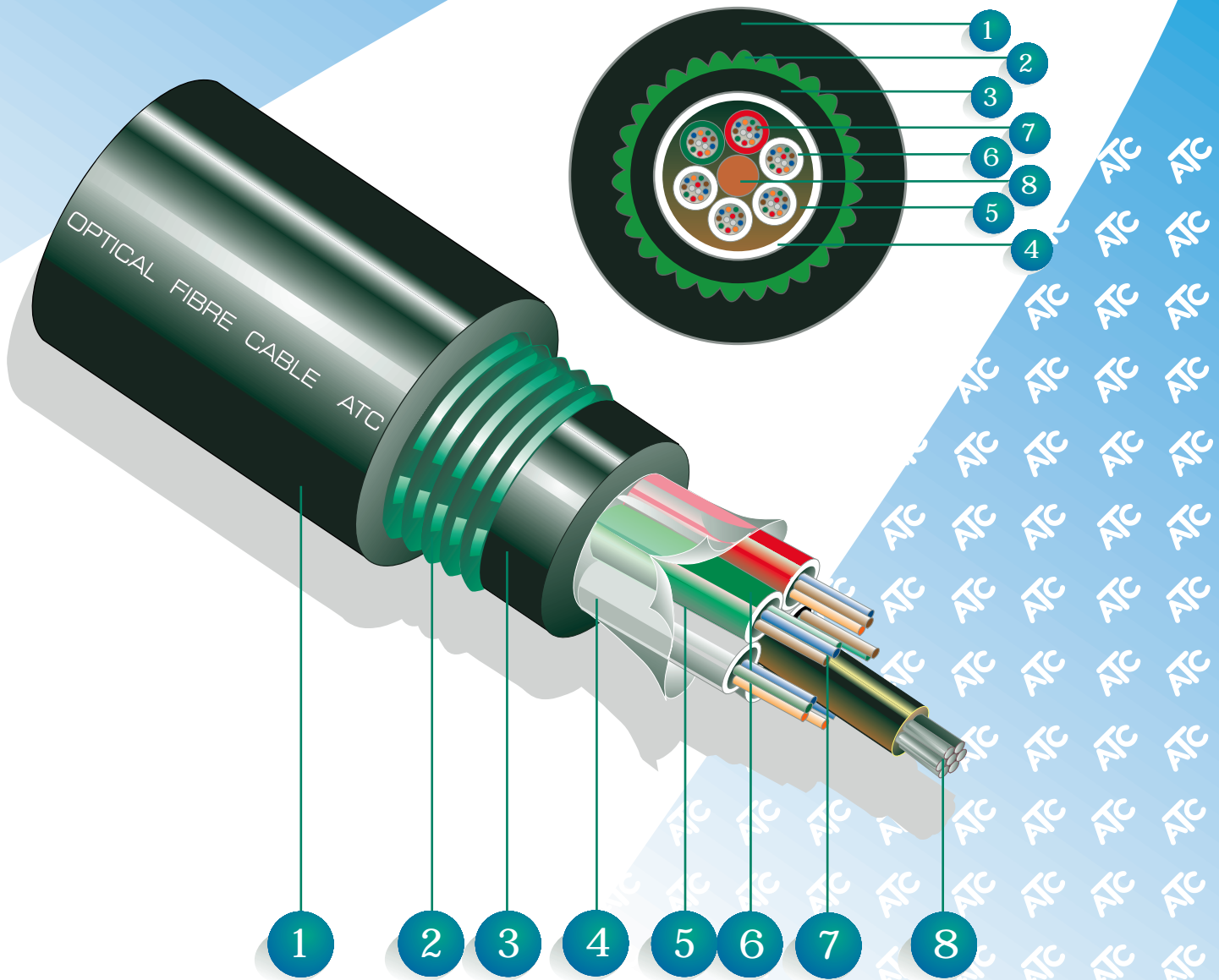


METALLIC EXTERNAL CABLE

(Metallic reinforced cable with corrugated steel tape armour)



Cable Description

1. Polyethylene outer sheath.
2. Plastic coated corrugated steel tape armour.
3. Polyethylene bedding sheath.
4. Core binder.
5. Interstitial water blocking gel.
6. Gel filled loose tubes.
7. Colour coded fibres.
8. Polyethylene coated, compacted steel centre strength member.

**OUTDOOR
OPTICAL
FIBRE
CABLE**



METALLIC EXTERNAL CABLE

(Metallic reinforced cable with corrugated steel tape armour)

Product features

- The ATC “metallic external” series are compact, loose tube cables specifically designed to tolerate a harsh environment, and is suitable for direct burial. It will however also provide the necessary protection for alternative applications where the cable is subjected to abnormal crush or impact forces during installation or service.
- The series is furnished with a polyethylene jacketed, compacted, post formed steel centre strength member.
- Each loose tube which has been stranded around the centre member, contains up to 12 individually coloured fibres, while additional identification is obtained by colouring the tubes.
- 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.
- 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 compacted steel strand together with the longitudinally applied tape, ensure minimal torsional stress which prevents cable spiralling, waving, twisting and kinking during installation.
- The steel tape armour is bonded to the sheath, which has the effect of distributing any mechanical stress uniformly throughout the cable, resulting in excellent bend, crush, puncture, and kink resistance.
- In addition, the cables are available in Low Smoke Zero Halogen (LSZH), fire retardant, non toxic sheaths to comply with the strictest building regulations.
- Available in a wide range of constructions on request, i.e. number of elements, tube size and fibres per tube.
- 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.

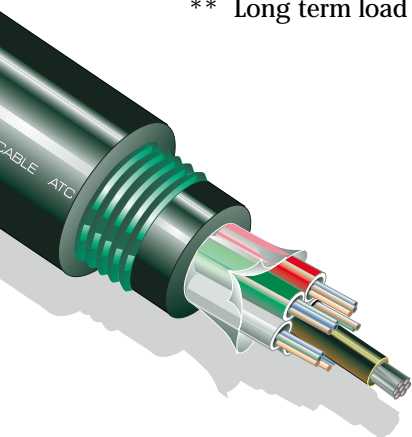
Typical properties

• Fibre count (up to)	36	72
• Diameter (mm)	15.4	19.5
• Weight (kg/km)	230	345
• Maximum short term load (N) *	2000	4 000
• Maximum long term load (N) **	800	2 000
• Minimum bend radius (mm)	200	250
• Crush resistance (N)(via 100 mmx 100 mm plate)	5 000	5 000
• Impact test (2 Nm blows / 25 mm anvil)	50	50
• Temperature range (°C)	-20/+70	-20/+70

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.



DATA SHEET: MEC/01
ISSUE DATE: 01/10/00

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