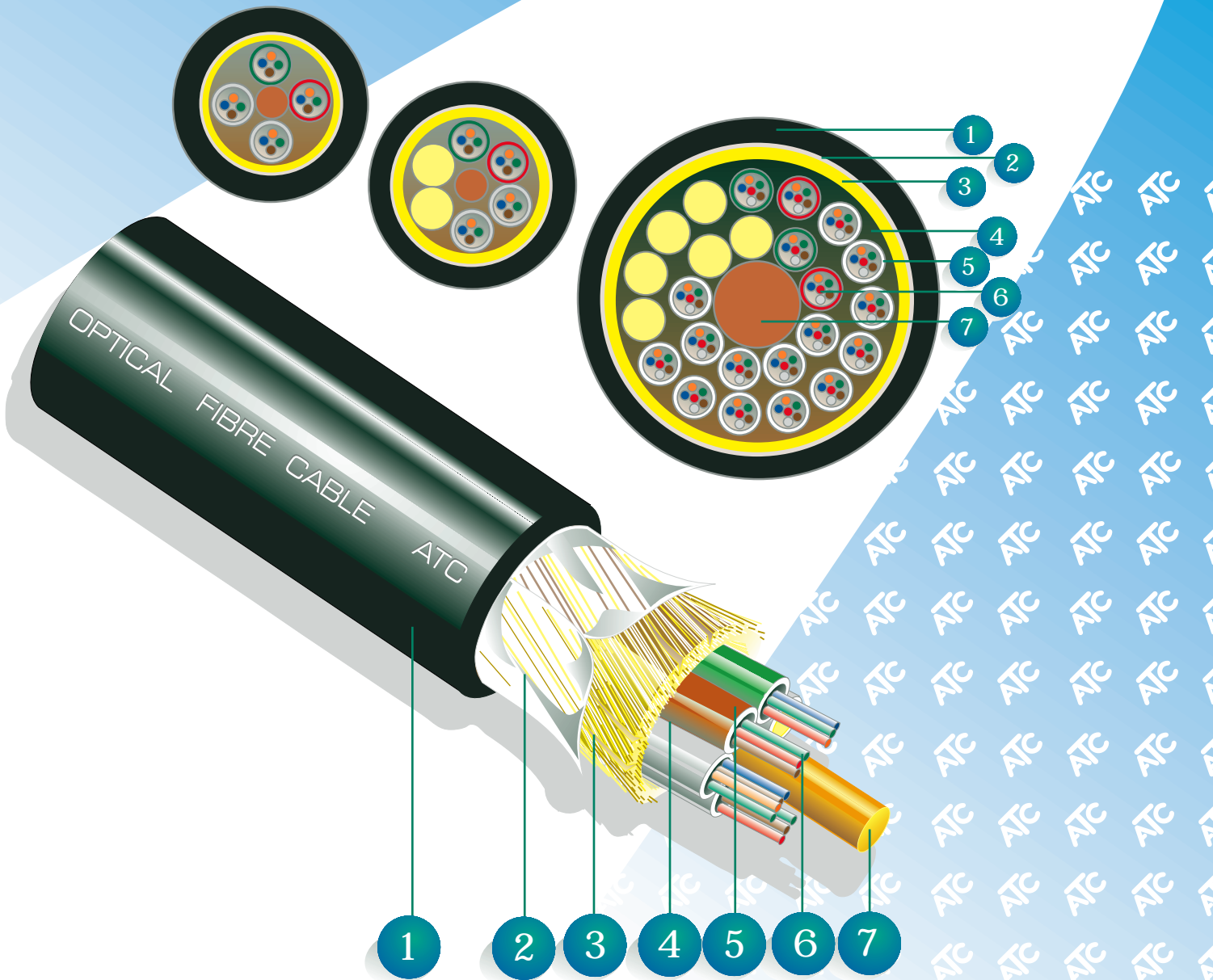




# HEAVY DUTY DUCT CABLE

(Non-metallic loose tube duct cable)



## Cable Description

1. Polyethylene water resistant sheath.
2. Core binder.
3. Aramid strength member.
4. Interstitial water blocking flooding compound.
5. Gel filled loose tubes.
6. Colour coded fibres.
7. GRP centre strength member.

OUTDOOR  
OPTICAL  
FIBRE  
CABLE

Technical detail overleaf

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# HEAVY DUTY DUCT CABLE

(Non-metallic loose tube duct cable)

## Product features

- The ATC “heavy duty duct” series are compact, loose tube cables specifically designed for long haul duct applications, but will tolerate aerial installation if UV protected and lashed.
- A non-metallic construction ensures lightning immunity.
- These cables are exceptionally robust and provide excellent protection from crushing forces.
- The series is furnished with aramid strength members which enable the cable to withstand enormous tensile loading during installation.
- One outstanding feature is that they provide sustained reliability over a wide temperature range. The fibres are free to move in the gel filled tubes, and can therefore remain relatively stress free while the cable contracts and expands with temperature differences.
- The tough water resistant sheath and the water blocking flooding compound ensures its suitability for the duct environment.
- These cables can be highly populated with fibre, making it possible to utilise duct space efficiently.
- Available in a wide range of constructions (number of elements, tube size, and fibres per tube) and fibre counts on request.
- In addition, the cables are available with Low Smoke Zero Halogen (LSZH), sheath to comply with the strictest building regulations.
- Each loose tube contains up to 12 individually coloured fibres.
- Additional identification is obtained by colouring the loose tubes, either by reference marker scheme or individually.

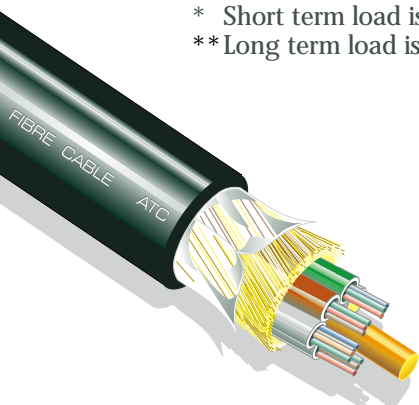
## Typical properties

• Fibre count (Up to)	24	36	48	72	96	144	216
• Construction (Number of elements )	4	6	8	6	8	12	18
• Diameter of cable (mm)	9.7	11.0	12.20	13.4	15.4	19.2	20.1
• Weight of cable (kg/km)	75	105	120	150	190	270	300
• Maximum short term load (N)*	1 200	1 300	1 450	2 000	2240	3180	3520
• Maximum long term load (N)**	500	500	500	500	500	500	500
• Minimum bend radius (mm)	115	130	145	160	185	230	240
• Crush resistance (N)(via 100 mm x 100 mm plate)	2 500	2 500	2 500	2 500	2 500	2 500	2 500
• Impact resistance (2 Nm blows / 25 mm anvil)	10	10	10	10	10	10	10
• Temperature range (°C)	-20/+70	-20/+70	-20/+70	-20/+70	-20/+70	-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.



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