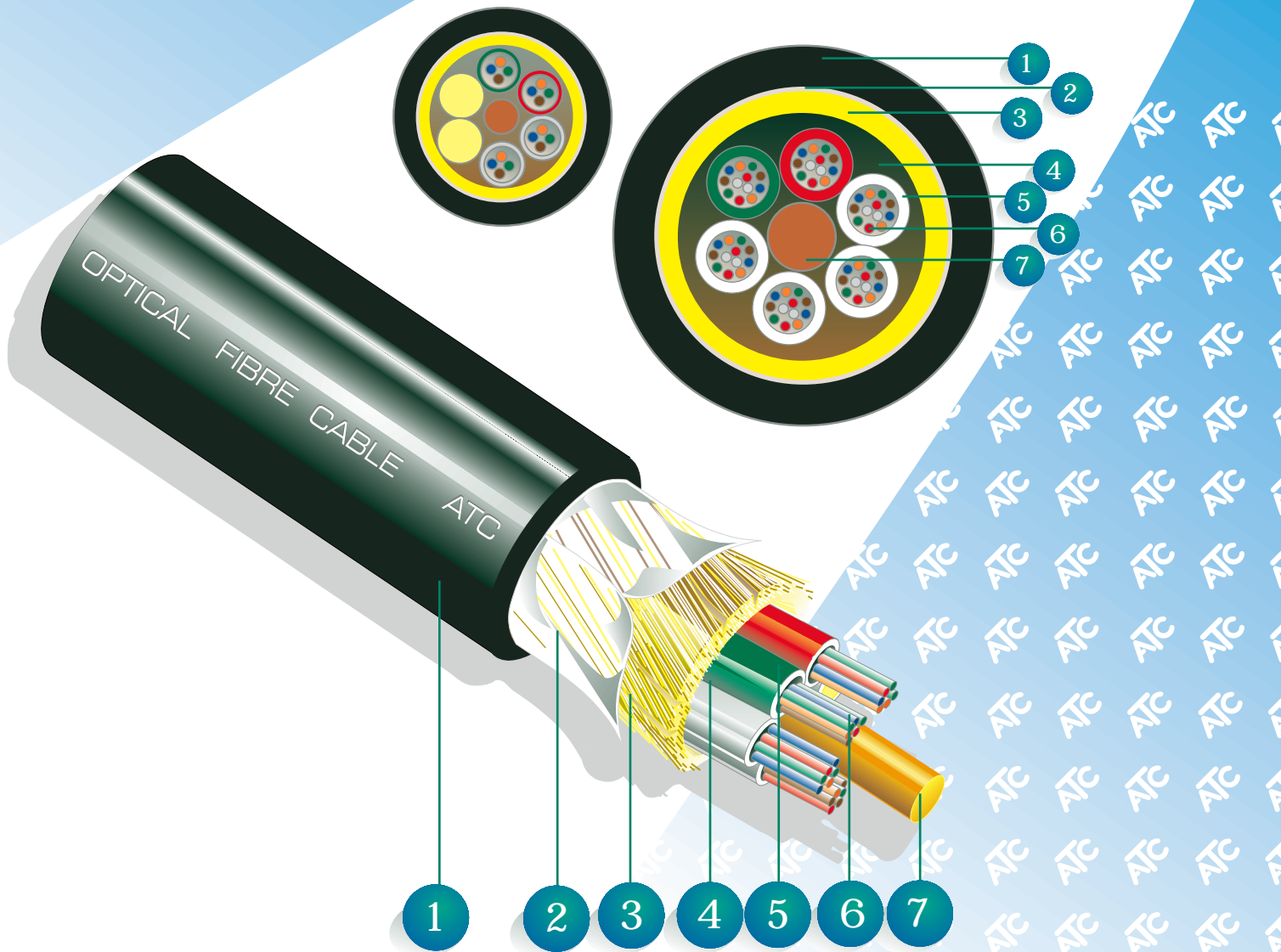




# HEAVY DUTY DUCT CABLE

(INDUSTRIAL Non-metallic loose tube duct cable)



## Cable Description

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

\* Interstitial water blocking materials can be either a flooding compound or superabsorbent dry materials.

OUTDOOR  
OPTICAL  
FIBRE  
CABLE

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

Technical detail overleaf



# HEAVY DUTY DUCT CABLE

(INDUSTRIAL Non-metallic loose tube duct cable)

## Product features

- The ATC “heavy duty duct” series ideally suited for Industrial applications 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, interstitial water blocking materials, and gel filled tubes ensure its suitability for the duct environment.
- Available in a wide range of constructions (number of element, tube size, and fibres per tube) and fibre counts on request.
- These cables can be highly populated with fibre, making it possible to utilise duct space efficiently.
- In addition, the cables are available with a 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 by reference marker scheme.

## Typical properties

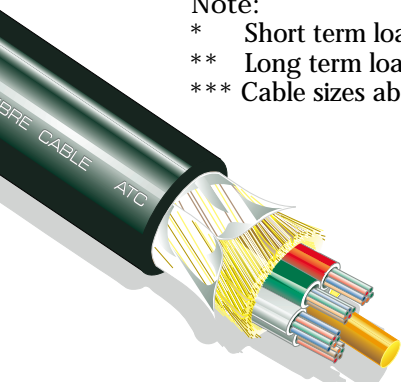
• Fibre count (Up to)	48	72	96	144***
• Construction (Number of elements)	6	6	8	12
• Diameter of cable (mm)	10.8	13.2	15.2	18.9
• Weight of cable (kg/km)	100	145	190	290
• Maximum short term load (N)*	1 200	1 750	2240	3400
• Maximum long term load (N)**	500	500	500	500
• Minimum bend radius (mm)	130	160	185	230
• Crush resistance (N)(via 100 mm x 100 mm plate)	2 500	2 500	2 500	2 500
• Impact resistance (2 Nm blows / 25 mm anvil)	10	10	10	10
• Temperature range (°C)	-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.

\*\*\* Cable sizes above 144 fibres are available on request.



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

Every effort has been made to ensure that the information given in this leaflet is correct. The company reserves the right to make alterations and amendments to the detailed specification at its discretion. ATC (Pty) Ltd disclaims responsibility for all actions, proceedings, liabilities, claims, damages, cost, losses and expenses in relation to, or arising out of incorrect utilisation of this information.

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