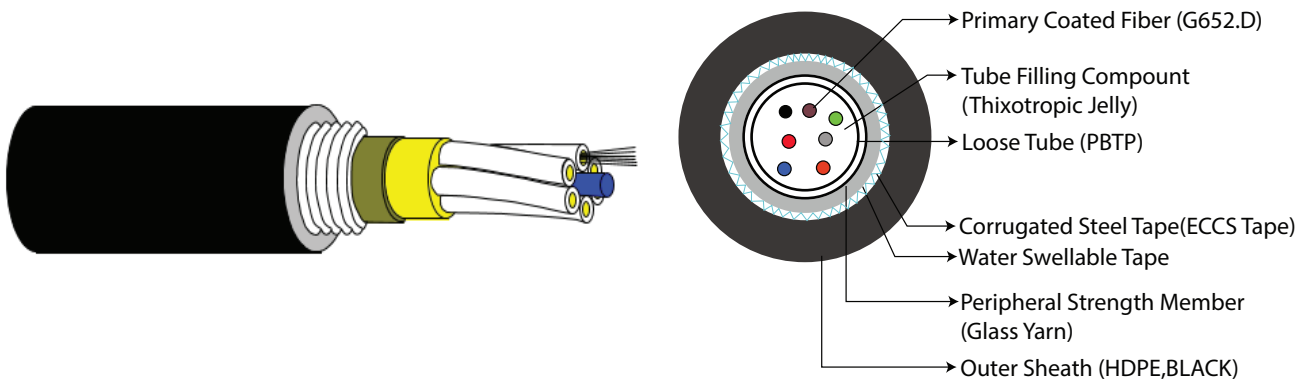


# FIBER OPTIC LOOSE TUBE GEL FILLED METALLIC ARMORED CABLE



## DESCRIPTION

Datacom loose tube (Single Mode and Multi-Mode) design offers durable and reliable optical transmission performance over a broad temperature range. Optical fibers are placed inside gel-filled buffer tubes. The core is wrapped with flexible strength members covered with water-blocking tape. Corrugated steel armor is applied and then encased with a black jacket which provides superior crush resistance for direct burial applications and outdoor installation. Datacom Cable offers loose tube gel-filled water-blocking UV resistance central tube cable. There is no central strength member of central tube models.

Datacom Single Armoured Single Jacket OSP cables are available in fibre counts from 6 to 144 fibres as a “stranded loose tube” design. Fiber count 6 to 24 are in central loose tube design and from 48 to 144 core fibre models has multi-tube designs. Fiber strands are grouped in separate tubes, each tube shall have maximum of 6 fibres.

## APPLICATION

- This cable can be used for outdoor data communications connections including CATV, WAP, CCTV, telecom trunk and access lines.
- These cables are armoured for direct burial and conditions with risk of severe rodent attacks.
- This type of cable can be used as distribution and feeder cables for FTTH Projects
- Local loop, metro, long-haul and broadband network.

## FEATURES

- Gel-filled tube and water-blocking tape :
- Blocks water from entering the cable and damaging the optical fibres.
- Steel tape armour: Makes the cable rodent proof.
- ITUG652.D Single Mode fibres: Deliver high bit rate data transmission and are bend insensitive.

## STANDARDS COMPLIANCE

- TELECORDIA GR-20
- TIA 568D.3
- ITUG652.D
- ROHS

# FIBER OPTIC LOOSE TUBE GEL FILLED METALLIC ARMORED CABLE

MECHANICAL CHARACTERISTICS	
Temperature Range (IEC 60794-1-2-F1)	
Laying and Installation Temperature	-20° to +70°C
Operation Temperature	-20° to +70°C
Cable Bending Radius (IEC 60794-1-2-E11A)	
Cable Bending Radius (During Installation)	20 X D, D=Dia meter
Cable Bending Radius (During Installed)	10 X D, D=Dia meter
Repeated Bending (IEC 60794-1-2-E6)	30 Cycle,r=20XD 5KG Load
Tensile Force (IEC 60794-1-2-E1)	1500 N
Torsion Resistance (IEC 60794-1-2-E7)	10 Cycle (± 360°) 3 Kg Weight, L= 2 Mtr
Crush Resistance (IEC 60794-1-2-E3)	2000 N/ 10cm
Impact Resistance (IEC 60794-1-2-E4)	50 N.m

COLOUR CODING (Color of Fibers in a Tube)		
4F Cable	Blue,Orange,Green,Brown,	
6F Cable	Blue,Orange,Green,Brown,Slate,White	
8F Cable	Blue,Orange,Green,Brown,Slate,White,Red,Black	
12F Cable	Blue,Orange,Green,Brown,Slate,White,Red,Black,Yellow, Violet,Pink & Aqua	
24F Cable		Blue,Orange,Green,Brown,Slate, White,Red,Black,Yellow,Violet, Pink,Aqua&Natural
	Ring Marked Fiber	Blue,Orange,Green,BrownSlate, White,Red,Yellow,Violet,Pink,Aqua
48F Cable		Blue,Orange,Green,Brown,Slate, White,Red,Black,Yellow,Violet, Pink,Aqua
	Loose Tube Colour Color Of Filler	Blue,Orange,Green,Brown Black

CABLE PHYSICAL CHARACTERISTICS						
Fibre Count	4	6	8	12	24	48
Cable Diameter in mm (+/- 0.5)	10.0	10.0	10.0	10.0	10.5	11.8
Nominal Cable Weight (Kg/Km)	85±10	85±10	85±10	85±10	85±10	125.0
Standard Length (meters)	2000 ± 10%			4000 ± 5%		

CABLE TRANSMISSION CHARACTERISTICS	
Attenuation at 1310 nm (dB/Km)	≤ 0.36
Attenuation at 1550 nm (dB/Km)	≤ 0.23

## ORDERING INFORMATION

### Description

**Datacom CLT Gel Filled Steel Tape Armoured  
Single Jacket ITUG652.D Cable. PE Jacket**

**Datacom MLT Gel Filled Steel Tape Armoured  
Single Jacket ITUG652.D Cable-PE Jacket**

### Part No.

**DC-FO'a''bb'CLTSTSP-'xxx'**

**DC-FO'a''bb'MLTSTSP-'yyy'**

\*\* xxx= Number of cores, value ranges from (04-24) yyy=(48-144) , a= Type of Fiber Values are -9 (Single Mode) , 5 (Multi Mode)  
bb=Grade of Fiber D2 (652.D) , A1 (657.A1) , A2 (657.A2) M3 (OM3),M4 (OM4) , M5 (OM5).