

# AERIAL CABLES

## TUBE DROP CABLE



### Description:

- 4 fibres are placed in loose tube in between two frp rods and covered with hdpe sheath.
- Fibres can be taken out easily from the loose tube. Optical fibre used is G.652 Fibre.

### Application:

- Termination to cabinets
- Easiness at splice closure
- Easy termination to any OFC system

### Advantages

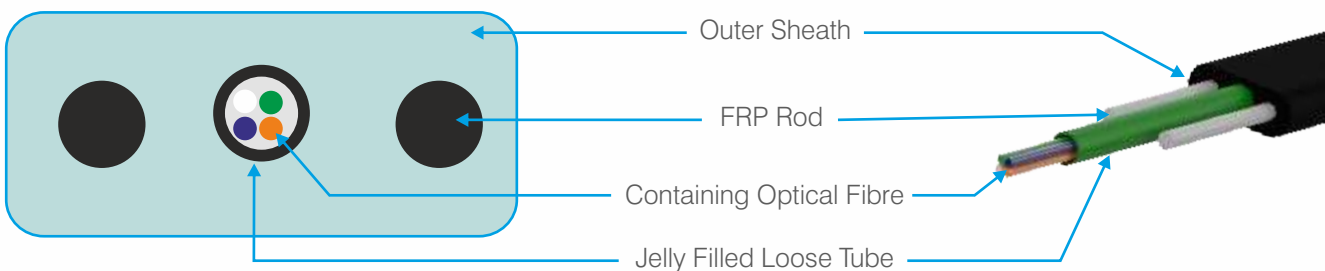
- All dielectric cable
- Light weight
- Simple and fast installation
- Self supporting
- Easy for termination

### Cable Construction details

<b>No. of Fibres</b>	2/4/6 F
<b>Fibre Colour</b>	Individually coloured Fibres
<b>Strength Member</b>	Fibre Reinforced Plastic (FRP) Rod - 2 Nos.
<b>Sheath Colour</b>	Black or As per requirement

Cable Mechanical Characteristics	
Tensile Strength	
Installation	900N
Operation	350N
Minimum Bending radius	200 mm
Crush Resistance	500N/ 100x100

Physical Characteristics	
Cable Dimensions	
Width	6 ± 0.1 mm
Height	3 ± 0.4 mm
Nominal Cable Weight	20 Kg/km (Nominal)
Cable length per drum	500 Meter to 2 Km ± 10%



# AERIAL CABLES

## UNITUBE AERIAL OPTICAL FIBRE CABLES



### Description:

- Central loose tube with thixotropic jelly compound
- All dielectric cable with Glass rovings

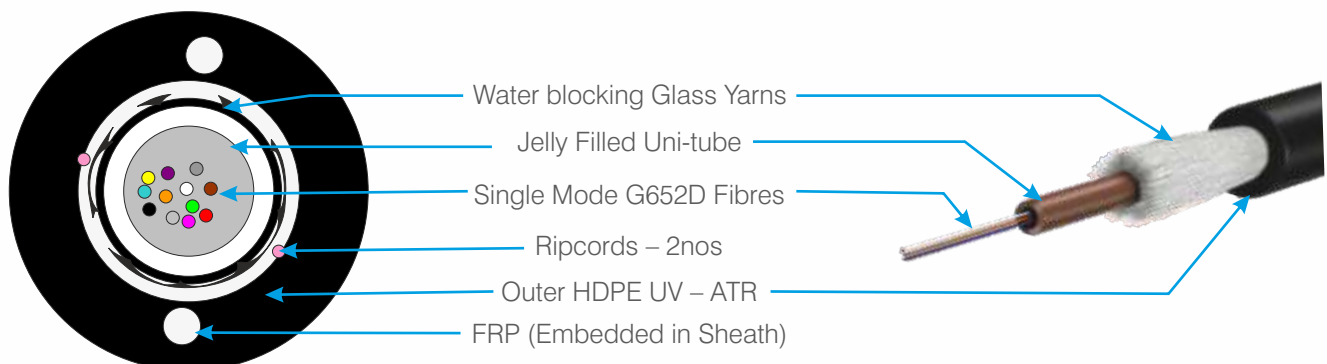
### Application:

- Aerial application cable, used over head
- ADSS cables in Uni tube designs

### Characteristics:

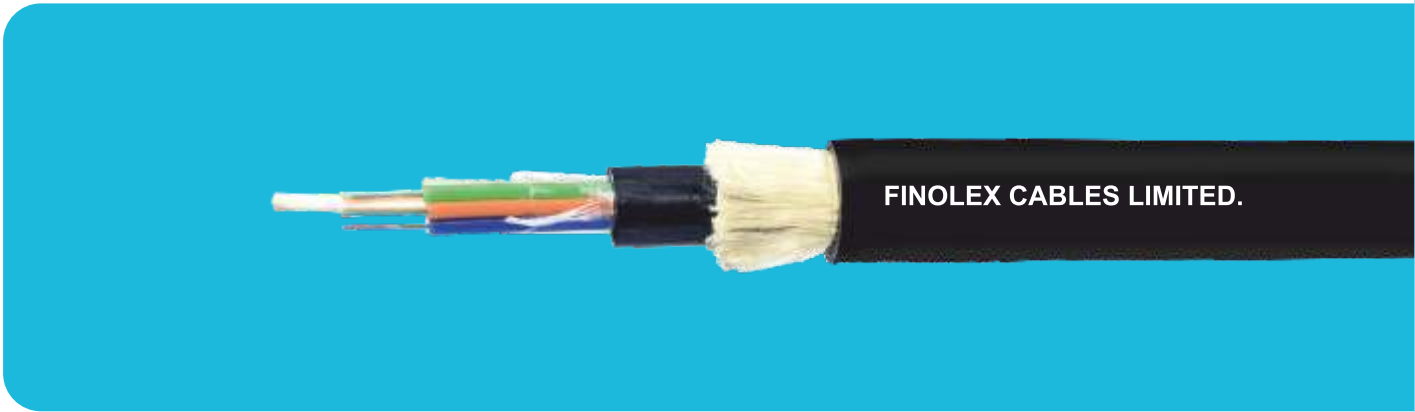
Span Length	Up to 70 meters
Installation Sag	1 % of span length
Installation Tension	725 N
Wind speed	100 km per hour
Extra Load	0.255 Kgs/m

Fibre Count	Outer Diameter (mm)	Thickness of Jacket (mm)	Nominal Cable Weight (Kg/km) HDEP	Pulling Tension IEC 60794-1-2-E1		Crush Load IEC 60794-1-2-E3 (N/100mm)	Bend Radius (mm) IEC 60794-1-2-E11 IEC 60794-1-2-E6
				Short Term (N)	Long Term(N)		Long Term
2F - 12F	9 ± 0.3	1.8 ± 0.2	68	1700	800	2000	20D
24F	9.5 ± 0.3	1.8 ± 0.2	75	2000	1000	3000	20D



# AERIAL CABLES

## MULTI-TUBE AERIAL CABLES OPTICAL FIBRE CABLES



### Description:

- Central FRP strength member
- Loose tube construction
- All dielectric cable

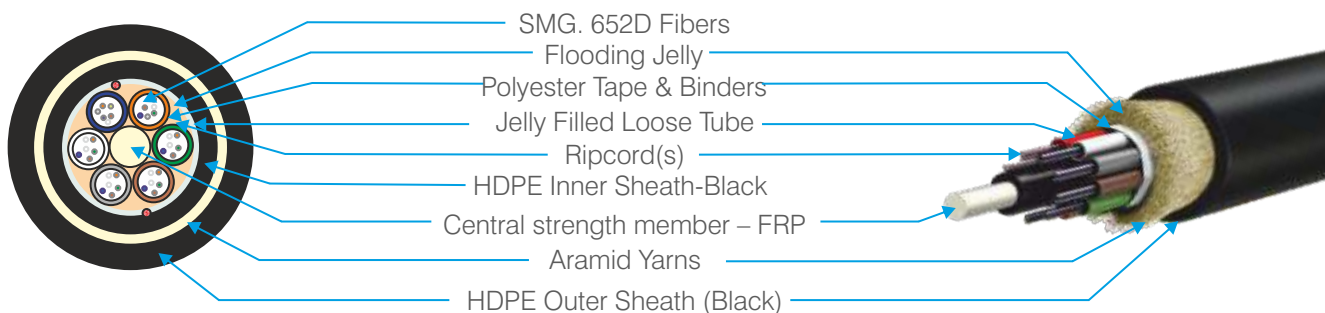
### Application:

- Aerial application cable, used over head
- ADSS cables in Multi tube designs

### Characteristics:

Span Length	Up to 70 meters
Installation Sag	1 % of span length
Installation Tension	725 N
Wind speed	100 km per hour
Extra Load	0.255 Kgs/m

Fibre Count	Nominal Outer Diameter (mm)	Nominal Thickness of Jacket (mm)	Nominal Cable Weight (Kg/km)	Tensile Load Maximum (N)	Crush Load (N/100 mm)		Bend Radius (mm)	
					Short Term	Long Term	Short Term	Long Term
6	14	1.6	145	8000	4000	2000	20D	10D
8	14	1.6	145	8000	4000	2000	20D	10D
12	14	1.6	145	8000	4000	2000	20D	10D
24	14	1.6	145	8000	4000	2000	20D	10D
48	14	1.6	145	8000	4000	2000	20D	10D
96	16.7	1.6	205	8000	4000	2000	20D	10D
144	20	1.6	250	8000	4000	2000	20D	10D





# AERIAL CABLES

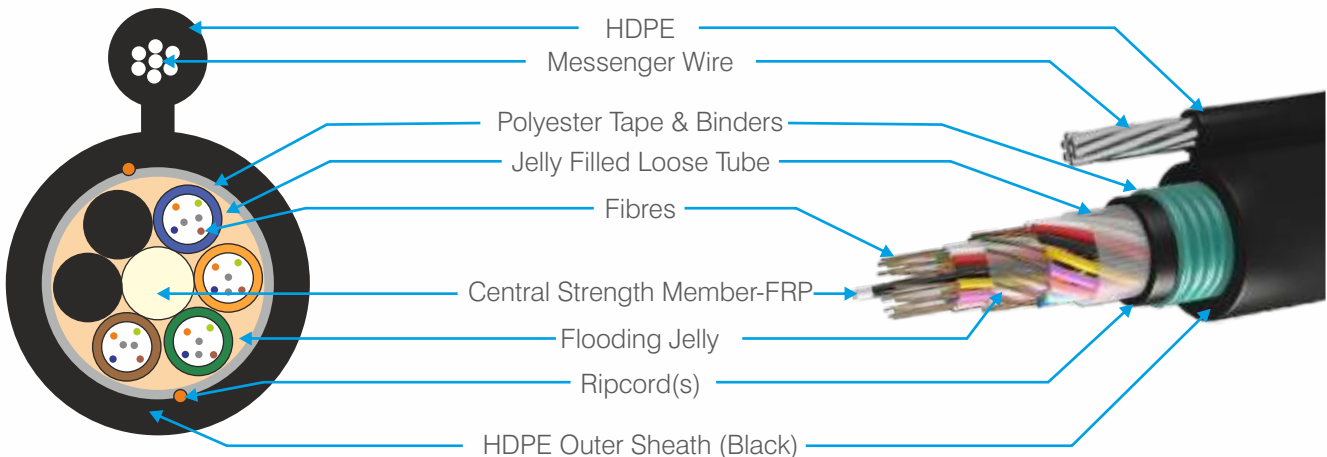
## SINGLE SHEATH MULTITUBE FIG-8 FIBRE OPTICAL FIBRE CABLES



### Mechanical & Environment Characteristics:

Operating Temperature	-10 deg C to +60 deg C
Storage Temperature	-20 deg C to +85 deg C
Jacket Material	HDPE

Fibre Count	Nominal Outer diameter (mm)	Nominal Thickness of Jacket (mm)	Nominal Cable Weight (kg/km)	Tensile Load Maximum (N)	Crush Load (N/ 100mm)		Bend Radius (mm)	
					Short Term	Long Term	Short Term	Long Term
6	10.2x19.2	1.5	200	2000	2000	1000	20D	10D
12	10.2x19.2	1.5	200	2000	2000	1000	20D	10D
24	10.2x19.2	1.5	200	2000	2000	1000	20D	10D
36	10.2x19.2	1.5	200	2000	2000	1000	20D	10D
48	10.2x19.2	1.5	200	6000	2000	1000	20D	10D
72	10.2x19.2	1.5	220	6000	2000	1000	20D	10D
96	12.2x20.2	1.5	235	6000	2000	1000	20D	10D
144	15.6x23.6	1.5	265	6000	2000	1000	20D	10D



# AERIAL CABLES

## SINGLE SHEATH UNI TUBE FIG-8 FIBRE OPTICAL FIBRE CABLES



### Description

Fig-8 OFC : 2F to 12F Single Mode: Size: 6.5mm x 10.5mm(Nom.)

### CABLE CONSTRUCTION DETAILS

Sr.	Component	Description
1	Fiber Type / Attenuation /Fibre Colours	SM G652: 0.38/0.25dB/km Max at 1310/1550nm respectively.  <b>FIBRE COLOURS:</b> 2F: BL, OR/NT 4F: BL, OR, GR & BR/NT 6F: BL, OR, GR, BR, SL, WH/NT 12F: BL, OR, GR, BR, SL, WH, RD, BK, YL, VIO, RS, AQ/NAT
2	Uni-tube	Polybutylene Teraphthalate (PBT) filled with Thixotropic Jelly
3	Web	UV HDPE Black - Solid
4	Messenger/Support	High Strength - Steel Music Wire Dia. 1.6mm Nom.
5	Outer Sheath	UV HDPE Black
6	Cable Size	6.5 + 0.5mm x 10.5mm + 0.5mm
7	Cable weight	58 kg/km Nominal

