BIRLA ERICSSON OPTICAL LIMITED

TECHNICAL DETAILS OF UPTO 12 FIBRE FLAT DROP CABLE (LOOSE TUBE DESIGN)

INTRODUCTION

Outdoor drop cable having FRP rod as strength member & single mode fibre in full compliance with ITU-T G 652 D. The offered cable is fully compliant to the relevant IEC specification.

(1) CABLE DESIGN

- Singlemode fibre in full compliance with ITU-T Rec G652 D
- * Loose buffer tubes fully filled
- * FRP rod used as Strength Member
- * UV Stabilized Black HDPE

(2) APPLICATION:

Drop Cable suitable for outdoor Aerial Application

(3) <u>SPECIAL FEATURES:</u> * Easy access to the fibres

- * Completely Dielectric

(4) MECHANICAL CHARACTERISTICS:

Temperature Range (IEC 60794-1-2-	FI)	
l	aying and Installation	-30° to +70°C
	Operation	-30° to +70°C
	Transport and Storage	-30° to +70°C
Cable Bending Radius (IEC 60794-1-	2-E11)	
During I	nstallation (Full Load)	300 mm
	Installed (No Load)	200 mm
Tensile Force (IEC 60794-1-2-E1)		1000 N
Crush Resistance (IEC 60794-1-2-E3)	1000 N (100 X 100 mm) for 60 sec
Impact (IEC 60704 1 E4)		0.3 Kg, 0.5mtr height,
Impact (IEC 00/94-1-E4)		3 no's at different location
Torsion (IEC 60794-1-2-E7)		50 N ± 180°/m, 10 cycles

(5) OPTICAL CHARACTERISTICS:

Fibre used in the cable manufacturing fully comply to ITU-T-Rec G652 D as per attached data sheet. <u><</u> 0.38 dB/Km Attenuation at 1310 nm Attenuation at 1550 nm < 0.25 dB/Km

(6) COLOUR CODING:

Colour of Fibres in loose tube: Colour of loose tube:

Blue, Orange, Green & Brown Natural

(7) CABLE CONSTRUCTIONAL DETAILS:

- Primary Coated Fibre a)
- Loose Tube b)
- Tube Filling Compound c)
- d) Strength Member e) Sheath

PRTP Thixotropic Jelly FRP Rod UV Stabilized Black HDPE

Single Mode - G 652 D

Typical Cross-section for 4 F OFC



DELIVERY INFORMATION: (8)

Nominal Cable Weight (Kg/Km) Nominal Width (W) of Cable (mm) Nominal Height (H) of Cable (mm) Standard Length Per Drum (Mtr)

7.1 3.3 500/1000/2000 ± 10 %

(9) CABLE SHEATH MARKING:

Cable sheath shall be marked with Ink Jet Printing method in contrast colour. Marking details can be customized.

(10) CABLE DRUM PACKING:

Every length will be delivered on non-returnable spools. Generally the box of the cable spools will be marked with following: These details can also be customised.

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- * Country of origin.
- * Manufacturer's name
- * Number of fibers.
- * Nominal cable length in meters
- * Net and gross weight.
- * Drum number
- * Customer's name and destination

Both ends of the cable shall be sealed to prevent the ingress of moisture during transportation and storage, physical damage.

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