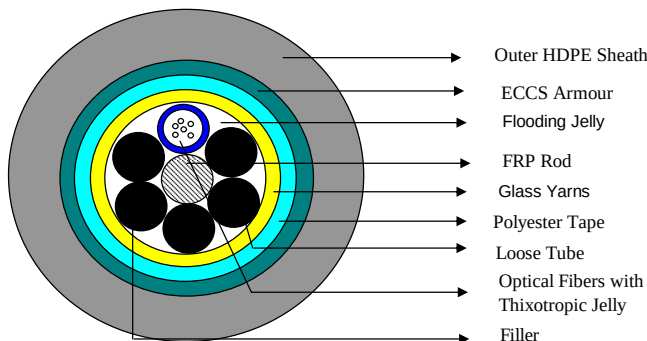


A. DATA SHEET , 6 Fiber Single Mode Multitube Fiber Optic

DATA SHEET

CABLE DESCRIPTION

- 1 9/125 micron Single-mode Armored Optical Fiber cables
- 2 Designed with a Loose tube construction
- 3 Tubes are gel filled to ensure protection against moisture ingress
- 4 Designed for use in the following applications like Backbone cabling, Campus site cabling & Outdoor Ducts or Direct Burial applications
- 5 Cable contains upto 6 Fibers
- 6 Each loose tube contain 6 Optical Fibers
- 7 ECCS Armour
- 8 Central Strength - FRP Rod
- 9 HDPE Sheath



SL.No.	PARAMETER	UNIT	SPECIFICATIONS
1	TYPE OF CABLE		6F MULTITUBE ARMoured OPTICAL FIBER CABLE
2	STANDARDS		
a)	EN 50173; ISO/IEC 11801		YES
b)	ANSI/TIA-568-C.3		YES
c)	Telcordia GR-409		YES
3	FIBER		SINGLE MODE FIBER
a)	FIBER SIZE	um	9/125/250 (OS2)
b)	No. OF FIBERS / LOOSE TUBE	No.	6F
c)	FIBER IDENTIFICATION		Blue, Orange, Green, Brown, Grey & White
4	OPTICAL PARAMETERS - SM		
a)	ATTENUATION @ 1310nm	dB/Km	≤ 0.34 (MAX)
b)	ATTENUATION @ 1550nm	dB/Km	≤ 0.22 (MAX)
c)	ATTENUATION @ 1380 - 1386nm	dB/Km	≤ 0.31 (MAX)
d)	POINT DISCONTINUITY	dB	≤ 0.1
e)	CUT-OFF WAVELENGTH	nm	≤ 1260
f)	CHROMATIC DISPERSION @ 1310 nm	ps/nm x km	≤ 3.5
g)	CHROMATIC DISPERSION @ 1550 nm	ps/nm x km	≤ 18
h)	CORE/MODE-FIELD	um	9
i)	CLADDING	um	125
j)	COATING	um	250
5	LOOSE TUBE / TIGHT BUFFER		LOOSE TUBE
a)	MATERIAL		PBTP
b)	No. OF LOOSE TUBES	No.	1
c)	DIAMETER	mm	3±0.2
d)	COLOUR OF LOOSE TUBE		BLUE
e)	SEQUENCE OF ELEMENTS IN CORE		BL LOOSE TUBE, BK1, BK2, BK3, BK4 & BK5 FILLERS
f)	LOOSE TUBE GEL		WATER BLOCKING GEL
g)	CORE WRAPPING		SINGLE LAYER OF POLYESTER TAPE
6	JACKETING		
a)	MATERIAL		HDPE
b)	COLOUR		BLACK
c)	NOMINAL THICKNESS	mm	2.0
d)	OVERALL DIAMETER (NOMINAL)	mm	15.5
7	STRENGTH MEMBERS		YES
a)	TYPE (Peripheral)		WATER BLOCKING E-GLASS
b)	TYPE (Central)		FRP ROD
8	ARMOURING		
a)	TYPE		ECCS TAPE
b)	MS TAPE THICKNESS		> 0.15
9	MECHANICAL PROPERTIES		
a)	MINIMUM INSTALLATION BEND RADIUS	mm	310
b)	MINIMUM SERVICE BEND RADIUS	mm	248
c)	CABLE WEIGHT (NOMINAL)	Kg/Km	215
d)	STANDARD LENGTH	Mtrs	2KM±5%
e)	TENSILE STRENGTH	N	4000
f)	MAXIMUM CRUSH RESISTANCE	N	4000
g)	OPERATING TEMPERATURE	deg C	-20 to +70
h)	TYPE OF PACKING		WOODEN DRUM
10	PRINTING DETAILS		ADC F.O CABLE 1-2225406-4 ECCS GEL LOOSE TUBE 6X9/125 SMF HDPE (ML)XXXX/YY/ZZ MMMM

B. cross-section of the tunnel.

