

## 4 Fiber Unitube Cable with Steel / FRP with Jacket

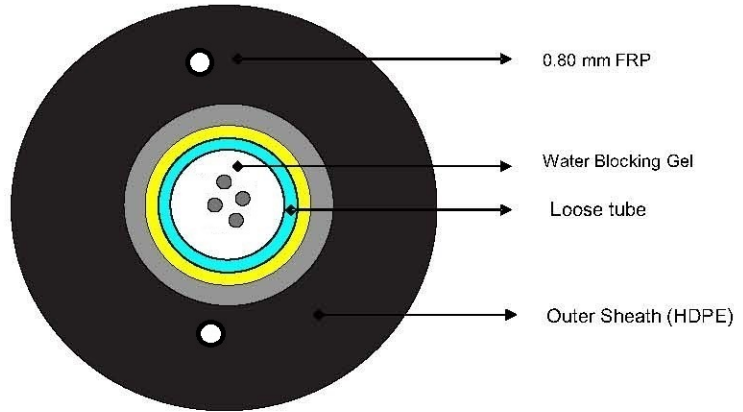
Part No. 2121106-Y

### DATA SHEET

Rev B 0714

#### CABLE DESCRIPTION

1. Designed with a Loose tube construction.
2. Tubes are Gel filled to ensure protection against moisture ingress.
3. Designed for use in the following applications like Backbone cabling, Campus site cabling and Outdoor Ducts or Direct Burial applications.
4. Cable contains up to 4 fibers.
5. Water Blocking
6. Diameter of the Cable 6mm (+/- 0.20mm)



SL.No.	PARAMETER	UNIT	SPECIFICATIONS				
			OM1 (Y   5)	OM2 (Y   7)	OM3 (Y   3)	OM4 (Y   2)	OS2 (Y   4)
1	TYPE OF CABLE		UNITUBE				
2	STANDARDS						
	EN 50173; ISO/IEC 11801		YES				
	ANSI/TIA-568-C.3		YES				
	Telcordia GR-20		YES				
3	FIBER		MM OM1	MM OM2	MM OM3	MM OM4	SM
a)	FIBER SIZE	um	62.5/125/250	50/125/250	50/125/250	50/125/250	9/125/250 (OS2)
b)	No. OF FIBERS / LOOSE TUBE	No.	4F				
c)	FIBER IDENTIFICATION		Blue, Orange, Green, Brown,				
4	OPTICAL PARAMETERS						
a)	ATTENUATION @ 1310nm (max)	dB/Km	-	-	-	-	≤ 0.34
b)	ATTENUATION @ 1550nm (max)	dB/Km	-	-	-	-	≤ 0.22
c)	ATTENUATION @ 1380 - 1386nm	dB/Km	-	-	-	-	≤ 0.31
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	62.5	50	50	50	9
i)	FIBER ATTENUATION @ 850nm (max)	dB/Km	4 2.9	4 2.4	-	-	-
j)	FIBER ATTENUATION @ 1300nm (max)	dB/Km	4 0.7	4 0.6	-	-	-
	CABLE ATTENUATION @ 850nm (max)	dB/Km	4 3.0	4 3.0	-	-	-
	CABLE ATTENUATION @ 1300nm (max)	dB/Km	4 1.0	4 1.0	-	-	-
k)	OVER FILLED BAND WIDTH						
	@ 850nm	MHz X Km	u 200	u 500	-	-	-
	@ 1300nm	MHz X Km	u 600	u 500	-	-	-
l)	MAX LINK LENGTH FOR 1 GBit/s						
	@850nm (1000Base-SX)	Meter	275	550	1000	1040	-
	@1300nm (1000Base-LX)	Meter	550	550	600	600	-
m)	MAX LINK LENGTH FOR 10Gbit/s						
	@850nm (10GBase-SR & SW)	Meter	33	82	300	550	-
	@1300nm (10GBase-LX4)	Meter	360	300	300	300	-
	By using mode conditioning Patch Cord						
n)	CLADDING	um	125				
o)	COATING	um	250				
5	LOOSE TUBE / TIGHT BUFFER		LOOSE TUBE				
a)	MATERIAL		PBTP				
b)	No. OF LOOSE TUBES	No.	1				
c)	DIAMETER	mm	1.7MM (+/-0.20MM)				
d)	SEQUENCE OF ELEMENTS IN CORE		NA				
e)	LOOSE TUBE GEL		WATER BLOCKING GEL				
6	JACKETING						
a)	MATERIAL		HDPE				
b)	COLOUR		BLACK				
c)	NOMINAL THICKNESS	mm	2.1				
d)	OVERALL DIAMETER (NOMINAL)	mm	10				
7	STRENGTH MEMBERS		YES				
a)	TYPE ( Peripheral )		WATER BLOCKING E-GLASS				
8	MECHANICAL PROPERTIES						
a)	MINIMUM INSTALLATION BEND RADIUS	mm	200				
b)	MINIMUM SERVICE BEND RADIUS	mm	160				
c)	CABLE WEIGHT (NOMINAL)	Kg/Km	100				
d)	STANDARD LENGTH	nltrs	2KM±5%				
e)	TENSILE STRENGTH	N	1250				
f)	MAXIMUM CRUSH RESISTANCE	N	3000				
g)	OPERATING TEMPERATURE	deg C	-20 to +70				
h)	TYPE OF PACKING		WOODEN DRUM				

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