		Tech	nical	Data	Shee	. +			
Cable Description		12F CE	NTRAL	TUBE (U	INITUBE	E - FIG8	DIELECTRIC) AE	RIAL OFC	
Type of Fibre		Single	Mode, (G.652D			•		
			Intro	ductio	n				
Central Loose tube, Aerial (Fi compliant to the relevant IEC	G 8 - Dielectric) fibre optic cable specifications.	e contai	ining LW	/P-SMF,	in full c	ompliar	nce with ITU-T (6652D. The offer	ed cables are fully
 * Enhance low water peak sin * Loose buffer tubes fully fille * Peripheral Strength Membe * HDPE outer sheath, Black * Messanger (Strength Member) * Rip Cord to open the sheath 	igle mode fibers in full complia id er - Glass Yarn per) FRP ROD 1	nce witł	Cable h ITU-T-	Desig G652D	'n				
			Appli	icatior	า				
* Suitable for Aerial Application * Span length upto 60 Meters	on 5 (NESC LIGHT)								
		Sp	pecial	Featu	res				
 * Flexible buffer tubes provid * Rodent Protection * Dielectric Construction 	e easy fibre routing inside close	ure							
	Cal	ble Ph	nysical	l Chara	acteri	stics			
Fibre Count 12									
Number of Fibres in Loose Tube		12							
Number of Loose Tube in cable		1							
Cable Diameter (mm)		7.2 x 16.0							
Tolerance ± (mm)		1.0							
Nominal Cable Weight (kg/km)		85.0							
Standard Length (meters)		2000 ± 3%							
	Cable Mashe		0		antal	Chaus	ataviation		
Tast		nical a	& Envi	ronm	ental	Cnara			
	Standard								
Coble Dending Dedius (mm)		-40 C (0 +70 C Dynamic - 20 X D. Static - 15 D (D- Cable diameter)							
Cable Bending Radius (mm)		1500 N							
		5 Nm 2 Impacts							
Crush Resistance (N)		2000 N (100 X 100 mm)							
Crush Resistance (N)									
Torsion Resistance	[IEC 60/94-1-21-E/]	LU CYCIE (± 180°),							
Note: After the Test, Change	In Attenuation shall be \$ 0.05	ав/кт	. NO FID	re Brea	k & Dan	nage or	Crack on the C	able	
	Cable	Trop	omicoi	on Ch	oroct	orietie			
Fibre Type		Atte	1200	1210		y kinj		cable Cut-Off	
Single Mode	G 652D	850	1300	1310	1000			< 1260	μ
	0.0520	-	<u> </u>	≥ 0.30	≥ 0.22		≥ 0.Z	≥ 120U	J.2 ± 0.4



Technical Data Sheet

Duonoution		
Properties	Unit	values
I ransmission		
Attenuation at 1310 nm	dB/km	0.34
Attenuation at 1550 nm	dB/km	0.20
Attenuation at 1625 nm	dB/km	0.23
Point discontinuity at 1310 & 1550 nm	dB	0.05
Difference in maximum attenuation in the range from	15 <i>#</i>	
1285 to 1330 nm w.r.t attenuation at 1310 nm	dB/km	0.03
1530 to 1570 nm w.r.t attenuation at 1550 nm	dB/km	0.02
Maximum chromatic dispersion at	· ·	
1285 - 1330 nm wavelength range	ps/nm.km	3.5
1270 - 1340 nm wavelength range	ps/nm.km	5.3
1550 nm	ps/nm.km	18.0
1625 nm	ps/nm.km	22.0
Zero dispersion wavelength	nm	1302 to 1322
Zero dispersion slope	nm².km	0.092
² MD at 1310 & 1550 nm	ps/sqrt.km	0.15
² MD Link Design Value at 1310 & 1550 nm**	ps/sqrt.km	0.06
-ibre cut-off wavelength	nm	1320
Cable cut-off wavelength	nm	1260
Node field diameter range at 1310 nm	μm	9.2 ± 0.4
Aode field diameter range at 1550 nm	μm	10.4 ± 0.5
Geometrical		
Cladding Diameter	μm	125 ± 0.7
Cladding noncircularity	%	0.7
Primary Coating Diameter (uncoloured)	μm	242 ± 5
Coating Diameter (coloured)	μm	252 ± 10
Core/Clad or Mode Field concentricity error	μm	0.5
Coating / Cladding Concentricity error	μm	12
Numerical Aperature**	•	0.14
Refractive Index at 1310 & 1550 nm**		1.467 & 1.468
viecnanical""		400 0.00
roor i est for minimum strain level	крsı, Gpa, %	100, 0.69, 1
nange in Attenuation with Bending		
100 Turns on 60 mm Diameter Mandrel		0.07
at 1310	dB	0.05
at 1550	dB	0.05
1 Turn on 32 mm Diameter Mandrel		2-
at 1310	dB	0.5
at 1550	dB	0.5
strippability force to remove primary coating of fibre	Newton	1.3 F 8.9
ibre Curl	radius of curve.	4 mtrs
Jynamic tensile strength (unaged)	kpsi	550
Jynamic tensile strength (Aged)	kpsi	440
Jynamic Fatigue		20
Environmental**		+
nduced attenuation at 1310 nm, 1550 nm & 1625 nm for		
Temperature & Humidity cycle from -10°C to +85°C	JD //	0.05
at 98 % humidity (min), Reference Temperature 23°C	aB/km	0.05
Temperature cycle from -60°C to +85°C,	dB/km	0.05
Reference Temperature 23°C		0.05
Water Immersion at 23 ± 2°C	dB/km	0.05
	dB/km	0.05
Accelerated Ageing (Temperature) at $85 \pm 2^{\circ}C$,		
Accelerated Ageing (Temperature) at 85 ± 2°C, Reference Temperature 23°		
Accelerated Ageing (Temperature) at 85 ± 2°C, Reference Temperature 23° * Fibre Manufacturer Certificate will be provided		
Accelerated Ageing (Temperature) at 85 ± 2°C, Reference Temperature 23° ** Fibre Manufacturer Certificate will be provided		
Accelerated Ageing (Temperature) at 85 ± 2°C, Reference Temperature 23° ** Fibre Manufacturer Certificate will be provided		•
Accelerated Ageing (Temperature) at 85 ± 2°C, Reference Temperature 23° ** Fibre Manufacturer Certificate will be provided Design no.	BEPB/TDS/3072	·