



OPTITERA GLOBAL NETWORKS PVT. LTD.

DESCRIPTION		4 Pair (0.51mm) UTP CAT6-UTP LAN Cable			
CONSTRUCTION					
1	Conductor	0.51mm±.01(Annealed Bare Solid Conductor)			
2	Min.Percentage Conductor Elongation	15 (Minimum)			
3	Insulation	High Density polyethylene			
4	Dielectric Constant	2.31			
5	Core Colour	Pair 1 : White – Blue			
		Pair 2 : White – Orange			
		Pair 3 : White – Green			
		Pair 4 : White – Brown			
6	Diameter of conductor & Insulation(mm)	Colour	Diameter in mm		
			Conductor	Insulation	
		White	0.51±.01	0.900	
		Blue	0.51±.01	0.900	
		White	0.51±.01	0.900	
		Orange	0.51±.01	0.900	
		White	0.51±.01	0.900	
		Green	0.51±.01	0.900	
		White	0.51±.01	0.900	
		Brown	0.51±.01	0.900	
7	Separator	Star shaped			
8	Shielding	Polyster tape			
9	Inner Sheating	PVC Compound Grey			
10	Outer sheating	LDPE Compund Black			
11	Approximate Cable Diameter in mm	7.00			
12	Minimum Radial Thickness in mm	0.50			
13	Operating Environment	Outdoor			
14	Flame Rating	60 deg.C,As per UL 1581 CMX rating			
Electrical Performance					
1	Standard	As per TIA/EIA/568.C.2			
2	LF Parameters @ 1 KHz				
	a)Maximum DC. Resistance @ 20°C	9.1 Ohms/100 Mtrs.			
	b)Maximum Resistance Unbalance	5.0 %			
	c)Mutual Capacitance	5.60 nf/100 Mtrs			

	d)Capacitance Unbalance Pair to Pair HF	330 Pf/100 Mtrs
3	Frequency Parameters	100 MHz
	a)Characteristic Impedance	100 ± 15 Ohm
	b)Velocity of Propagation (NVP)	65 % Minimum @ 100 MHz
	c)Maximum Delay Skew @ 20°C	45 ns/100 Mtrs(1 MHz to 100 MHz)
	d)Maximum Propagation Delay @ 20°C	538 ns/100 Mtrs @100 MHz
Packaging		Coiled in a wooden Reel
4	Standard Length	100/305 Mtrs

