



DATA SHEET FOR CAT- 6 UTP UNARMOURED LAN CABLES

Sr.No	Technical Description	Specification
		TIA/EIA 568-B.2
	Manufacturer's Name	POLYCAB INDIA LTD
	Cable Type	CAT-6 UTP Unarmoured Cable
	Size	4P x 23 AWG
	Rated Voltage	300 volts
	Applicable Standards	TIA/EIA 568-B.2
	CAT 6 UTP Application	Upto 1000 MBPS for – 100 mtrs (for lower speed) 55 mtrs (for higher Speed)
	Construction & Dimensions	
	Construction	4 Unshielded Twisted Pairs (UTP)
1	Conductor	Solid Annealed Bare Copper
	Conductor Diameter (mm)	0.510 ± 0.010
2	Insulation Material	HDPE (High Density Polyethylene)
	Insulation Thickness (mm) (Nom)	0.20
	Insulation Diameter (mm) (Nom)	0.92
3	Pairing	
		White /Blue - Blue
		White /Orange - Orange
		White /Green - Green
		White /Brown- Brown
4	Laid -up	
	Laid Up diameter (mm)	4.0 ± 0.5
5	Rip Chord	Nylon rip chord
6	Outer Sheath	FR PVC
	Nom Sheath Thickness (mm)	0.50
	Nom Outer Sheath Dia (mm)	5.50 ± 0.5
	Outer Sheath Colour	Grey
Electrical Parameters (at 20 Deg.cent)		
	Nominal mutual capacitance at 1KHZ	56nf/km
	Maximum Conductor DCR @ 20°C	92.0 Ohm/Km .
	NVP- Nominal velocity of Propagation	65% @ 250 MHz
	SKEW-propagation delay difference (Signal to noise Ratio)	Max 48ns/100 mts @ 250 MHz.
	Mean Characteristics impedance	100+/- 15 Ohm @250 MHz.
	Frequency	250 MHz
General and Environmental Characteristics		
	Temp Range operation storage	-10°C + 60°C
	Temp Range installation	-0°C + 50°C
	Minimum bending radius- operation	12D
Standard Packing		
	Packing Length	305 Mtrs
Prominently Printing Marking on the Cable		POLYCAB 4 PAIR X 23 AWG CAT -6 UTP TIA/EIA- 568 B.2 FR CABLE CE seq marking Julian date and year shift