

Cat # Y8500 Series Category 6 UTP Solid Cable

Mechanical Characteristics

1. Conductor	Material	Bare Copper
	Size	23 AWG
	Construction	1/0.58 +/- 0.02mm
2. Insulation	Material	HDPE
	Thickness	Minimum at any point: 0.2mm Maximum Average: 0.248
	Diameter	1.08 +/- 0.2mm
	Colours	Blue + White-Blue Orange + White-Orange Green + White-Green Brown + White-Brown
	Elongation	Minimum 300%
	Tensile Strength	Minimum 1.682 Kg/mm ²
3. Sheath	Material	PVC
	Thickness	Minimum at any point: 0.46mm Maximum Average: 0.58mm
	Diameter	6.4 +/- 0.3mm
	Colours	Ash or Blue
	Elongation	Minimum 100%
	Tensile Strength	Minimum 1.407 Kg/mm ²
	Aging @ 100°C for 168 Hours	Minimum elongation retention: 50% Minimum tensile strength retention: 75%
	Marking	N692
	4. Flame Test	Meets AS/ACIF S008:2001
5. Pair Separator	Separate "+" Moulding	

Electrical Characteristics

1. Spark Test		2000 +/- 250V AC		
2. Dielectric Strength		2500 V DC for 3 seconds		
3. Insulation Resistance Test		Minimum 150MΩ/Km		
4. Conductor Resistance		Maximum 7.91Ω/100M @ 20°C		
5. Resistance Unbalance		Maximum 2%		
6. Capacitance Unbalance		Maximum 330pF/100M		
7. Mutual Capacitance		Maximum 5600pF/100M		
8. Impedance	64kHz	125Ω +/- 20%		
	1 ~250MHz	100Ω +/- 15%		
9. NVP		70%		
10. Attenuation & Near End cross-talk		Attenuation	NEXT	Power Sum
		(dB/100 metres @ 20 deg C max)	(dB) min	(dB) min
	1MHz	-	66.0	64.0
	4MHz	3.8	65.3	63.3
	10MHz	6.0	59.3	57.3
	16MHz	7.6	56.2	54.2
	20MHz	8.5	54.8	52.8
	31.25MHz	10.7	51.9	49.9
	62.5MHz	15.5	47.4	45.4
	100MHz	19.9	44.3	42.3
	155MHz	26.3	41.4	39.4
	200MHz	29.2	39.8	37.8
	250MHz	33.0	38.3	36.3