



Product Specification sheet

Cat # Y8600 Series Category 6 UTP Stranded Cable

Mechanical Characteristics

1. Conductor	Material	Bare Copper
	Size	24 AWG
	Construction	7/0.2 +/- 0.015mm
2. Insulation	Material	HDPE
	Thickness	Minimum at any point: 0.2mm Maximum Average: 0.3
	Diameter	1.03 +/- 0.05mm
	Colors	Blue + White-Blue Orange + White-Orange Green + White-Green Brown + White-Brown
	Elongation	Minimum 300%
3. Sheath	Tensile Strength	Minimum 1.682 Kg/mm ²
	Material	PVC
	Thickness	Minimum at any point: 0.46mm Maximum Average: 0.58mm
	Diameter	6.5 +/- 0.3mm
	Colors	Ash, Blue, Green, Purple, Red, Yellow
	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

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 9.38Ω/100M @ 20°C			
5. Resistance Unbalance	Maximum 5%			
6. Capacitance Unbalance	Maximum 330pF/100M			
7. Mutual Capacitance	Maximum 5600pF/100M			
8. Impedance	64kHz	125Ω +/- 20%		
	1~250MHz	100Ω +/- 15%		
9. Attenuation & Near End cross-talk		Attenuation (dB/100 metres @ 20 deg C max)	NEXT (dB) min	Power Sum (dB) min
	1MHz	-	66.0	64.0
	4MHz	4.6	65.3	63.3
	10MHz	7.2	59.3	57.3
	16MHz	9.1	56.2	54.2
	20MHz	10.2	54.8	52.8
	31.25MHz	12.8	51.9	49.9
	62.5MHz	18.6	47.4	45.4
	100MHz	23.9	44.3	42.3
	155MHz	30.4	41.4	39.4
	200MHz	35.1	39.8	37.8
	250MHz	39.6	38.3	36.3

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