



Structured Cable Products

Quality Installations Deserve Quality Products

HNC-1 - HOME NETWORKING CABLE

PART# HNC-1

DATE: 2009.05.22

Cross Section	
Description	
Rated Temperature (°C)	75
Product Standard Certification	
Flammability Test	CM
Application	
Construction	
CAT5E	
Conductor	Solid Bare Copper
AWG	24
Conductor Dia. (mm)	0.50
Insulation	PE
Average Thickness(mm)	0.205
Min. Point Thickness(mm)	0.185
Insulation Dia.(±0.01mm)	0.91
Twisted Pair Dia.(±0.02mm)	1.82
Assembly Dia.(±0.1mm)	3.80
RG6	
Conductor	Solid CCS
AWG	18
Conductor Dia. (±0.005mm)	1.02
Insulation	Foam PE
Average Thickness(mm)	1.78
Min. Point Thickness(mm)	1.60
Insulation Dia.(±0.01mm)	4.57
Al- Foil Shield(Bonded)	Yes
Braiding-1(Al wire 16/4/0.16)	60%
Al- Foil Shield(Double)	Yes
Braiding-2(Al wire 16/3/0.16)	40%
Assembly Dia.(±0.1mm)	5.98
Jacket	PVC
Average Thickness(mm)	0.60X0.65
Min. Point Thickness(mm)	0.54X0.60
Outer Dia.(±0.30mm)	H1: 5.10 H2: 7.30 W: 12.40
Rip Cord	Per request
Color	
CAT5E	
Insulation	Blue , White/Blue ; Orange , White/Orange ; Green , White/Green ; Brown , White/Brown ;
Jacket	Per Request
Marking	
STRUCTURED CABLE PRODUCTS -- E198134-S (UL) OR c (UL) CM 75C CAT5E 350MHZ 4PR 24AWG UTP AND RG6 QUAD SHIELD 1x18AWG (UL) TYPE CM OR CL2 SWEEP TESTED TO 3.0GHZ HDTV ROHS ce XXXXFEET	

Performance			
Electrical Characteristics(CAT5E):			
Frequency (MHz)	Return loss (Min dB)	Attenuation Max	NEXT (Min dB)
1	20.0	2.0	68.3
4	23.0	4.1	59.3
8	24.5	5.8	54.8
10	25.0	6.5	53.3
16	25.0	8.2	50.3
20	25.0	9.3	48.8
25	24.3	10.4	47.3
31.25	23.6	11.7	45.9
62.5	21.5	17.0	41.4
100	20.1	22.0	38.3
155	18.8	28.1	35.5
200	18.0	32.4	33.8
240	17.4	36.0	32.6
300	16.8	41.0	31.2
350	16.3	44.9	30.1
Frequency (MHz)	PSNEXT (Min dB)	ELFEXT (Min dB/100m)	PSELFEXT (dB/100m)
1	66.3	63.8	60.8
4	57.3	51.7	48.7
8	52.8	45.7	42.7
10	51.3	43.8	40.8
16	48.3	39.7	36.7
20	46.8	37.8	34.8
25	45.3	35.8	32.8
31.25	43.9	33.9	30.9
62.5	39.4	27.8	24.8
100	36.3	24.0	21.0
155	33.5	20.0	17.0
200	31.8	17.7	14.7
240	30.6	16.2	13.2
300	29.2	14.2	11.2
350	28.1	12.9	9.9
Electrical Characteristics(RG6/U):			
1.0-1000MHz Impedance (ohms)			75 ± 5
Frequency (MHZ)	Attenuation Max(dB/100m)		
5	2.66		
55	5.25		
211	10.10		
250	11.02		
270	11.48		
300	12.14		
350	13.15		
400	14.11		
450	15.03		
500	15.88		
600	17.52		
750	16.69		
870	21.33		
1000.0	22.97		
Mechanical Characteristics:			
Test Object		Jacket	
Test Material		PVC	
Before	Tensile Strength (Mpa)	≥13.8	
Aging	Elongation (%)	≥100	
Aging Condition (°Cxhrs)		100x168	
After	Tensile Strength (Mpa)	≥85% of unaged	
Aging	Elongation (%)	≥50% of unaged	
Cold Bend(-20±2°Cx4hrs)		No crack	