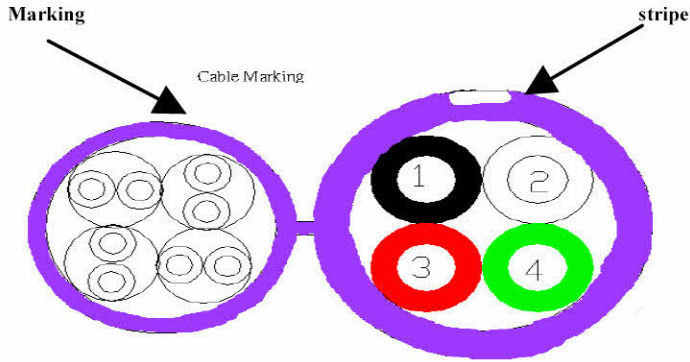


SCP-HNC-4 4P UTP CAT5E & 4X #16 SPEAKER CABLE

Cross Section



Marking

E198134-S UL OR c(UL) CM 75C CAT5E 350MHZ 4PR
24AWG UTP AND 4X16 AWG SPEAKER CABLE ***** FEET yywwd jnn

Rated Temperature (°C)	75
Product Standard Certification	UL
Flammability Test	CM

Application

Horizontal Wiring in LAN

Reference Standard

UL Subject 444, UL 13; EIA/TIA568 & ISO/IEC 11801

Construction

Conductor	Solid Bare Copper
AWG	24
Conductor Dia. (mm)	0.525
Insulation	PE
Average Thickness(mm)	0.21
Min. Point Thickness(mm)	0.17
Insulation Dia.(±0.02mm)	0.91
Twisting Lay Length(mm)	30underneath
Cabling Lay Length(±20mm)	140

Inner Jacket

	Lan cable PVC	POWER CABLE
Average Thickness(mm)	0.5	0.8
Min. Point Thickness(mm)	0.43	0.68
Outer Dia.(±0.2mm)	5.0	7.0
Rip Cord	Per request	Per request

Color

CAT5E Insulation colors are:

Blue, White/Blue; Orange, White/Orange; Green, White/Green; Brown, White/Brown

POWER

Rated Voltage/Temperature	30V/75_
Flammability Test	CL3&FT4
Conductor Stranded bare Copper (mm)	65/0.16
Insulation Dia(±0.1mm)	2.2
Cores: 1 Black 2.White 3.Red 4.Green	

Average Thickness(±0.05mm)	0.53
Min. Point Thickness(mm)	0.48
Outer Dia.(±0.2mm)	5.00
H(±0.2mm)	7.0
W(±0.2mm)	13.2
Rip Cord	Required
Weight(kg/km)	90

Performance

Electrical Characteristics:

Frequency (MHz)	Return loss (dB)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB)
0.772	19.4	1.8	67.0	65
1	20.0	2.0	65.3	63
4	23.0	4.1	56.3	52
8	24.5	5.8	51.8	46
10	25.0	6.5	50.3	44
16	25.0	8.2	47.3	39
20	25.0	9.3	45.8	37
25	24.3	10.4	44.3	34
31.25	23.6	11.7	42.9	31
62.5	21.5	17.0	38.4	21
100	20.1	22.0	35.3	13
200.0	18.0	32.4	30.8	
300	16.8	41.0	28.2	
350	16.3	44.9	27.2	

Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Prop'n Delay (ns/100m)
0.772	64.0	66.0	63.0	575.0
1	62.3	63.8	60.8	570.0
4	53.3	51.7	48.7	552.0
8	48.8	45.7	42.7	546.7
10	47.3	43.8	40.8	545.4
16	44.3	39.7	36.7	543.0
20	42.8	37.7	34.7	542.0
25	41.3	35.8	32.8	541.2
31.25	39.9	33.9	30.9	540.4
62.5	35.4	27.8	24.8	538.6
100	32.3	23.8	20.8	537.6
200	27.8	17.7	14.7	536.5
300	25.2	14.2	11.2	536.1
350	24.2	12.9	9.9	535.9

1.0-100.0MHz Impedance (ohms)	100 ± 15
100-200.0MHz Impedance (ohms)	100 ± 25
200-350.0MHz Impedance (ohms)	100 ± 35
1.0-350.0MHz Delay Skew (ns/100m)	≤45
Pair-to-Ground Capacitance Unbalance (pF/100m)	≤330
Max. Conductor DC Resistance 20°C (ohms/km)	93.8
Resistance Unbalance (%)	≤5

Mechanical Characteristics:

Test Object	Jacket
Test Material	PVC
Before Tensile Strength (Mpa)	≥13.8
Aging Elongation (%)	≥100
Aging Condition (°Cxhrs)	100x240
After Tensile Strength (Mpa)	≥85% of unaged
Aging Elongation (%)	≥50% of unaged
Cold Bend(-20±2°Cx4hrs)	No crack

POWER INSULATION

Mechanical Characteristics:

Test Material	Jacket
Test Material	PVC
Before Tensile Strength (Mpa)	≥10.35
Aging Elongation (%)	≥100
Aging Condition (°Cxhrs)	113±2_x168
After Tensile Strength (Mpa)	≥70% of original
Aging Elongation (%)	≥65% of original