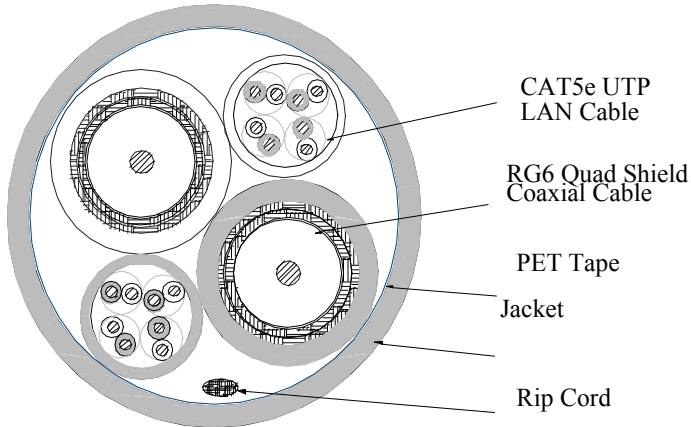


SCP-HNC-2 HOME NETWORKING CABLE

Cross Section



Outer Jacket Marking

STRUCTURED CABLE PRODUCTS --- E198134-S 2 x RG6 QUAD 18AWG SWEEP
 TESTED TO 2.2GHZ HDTV + 2 x CAT5E 350MHz 75C (UL) CM OR c(UL) CMG
 ***** FEET

Description

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

Two 4 Pair CAT5e UTP Cables

Complies to TIA/EIA 568A

24AWG Solid Bare Copper Conductor / PE Insulation

Two RG6 Quad Shield Coaxial Cables

Complies to SCTE ISP-IP-001

18AWG Copper Clad Steel Conductors

Al foil / 60% Al Braid Shield + Al foil / 40% Al Braid Shield

Application

Multi-media Cables for Smart Home

Reference Standard

SCTE IPS-SP-001, TIA/EIA-568-A & TIA/EIA-570A

Construction

2xCAT5E UTP LAN Cable

Detail See Attachment 1

2xRG6 Quad Shield Coaxial Cable

Detail See Attachment 2

Cabling Lay Length(±100mm)	380
PET Tape Wrapping	

Outer Jacket	PVC
Average Thickness(±0.05mm)	0.85
Min. Point Thickness(mm)	0.76
Outer Dia.(±0.05mm)	17.0
Rip Cord	Required

Weight(kg/km)	226.4
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Performance

The Characteristics of RG6 and CAT5e See Attachment

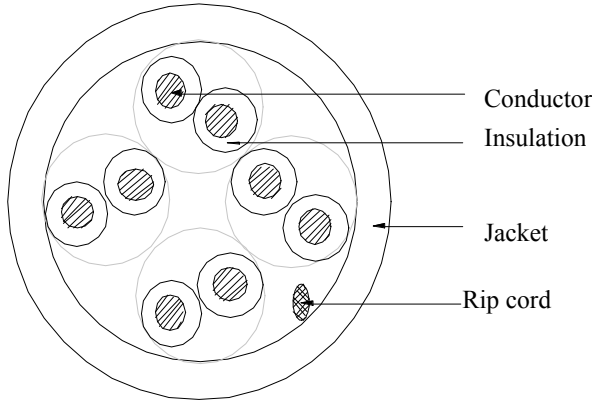
Outer Jacket Mechanical Characteristics:

Test Object

Test Material	PVC
Before Tensile Strength (Mpa)	≥1.034
Aging Elongation (%)	≥200
Aging Condition (°C_hrs)	113.0±1.0_ 168
After Tensile Strength (Mpa)	≥85% unaged
Aging Elongation (%)	≥50% unaged
Cold Bend (-20±2°C_4hrs)	No crack

SCP-HNC-2 HOME NETWORKING CABLE Attachment 1 ---- 4 Pair CAT5e UTP Cables

Cross Section



Marking (Repeated footage 0-1000ft)

SCP - STRUCTURED CABLE PRODUCTS VERIFIED (ETL) & (UL) CM OR MP CAT.5E 350MHz TO TIA/EIA 568-B.2 E198134-S 24 AWG 4P 75C UTP C(UL) **** FT WWYY

Description

Reference Standard

UL Subject 444,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
Jacket	PVC
Average Thickness(mm)	0.5
Min. Point Thickness(mm)	0.43
Outer Dia.(±0.2mm)	5.0
Rip Cord	YES
Weight(kg/km)	32

Color

Insulation colors are:

- Blue,White/Blue
- Orange,White/Orange
- Green,White/Green
- Brown,White/Brown

Inner Jacket colors:

BLUE,GRAY

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	18.0	32.4	30.8	***
300	16.8	41.0	28.2	***
350	16.3	44.9	27.2	***

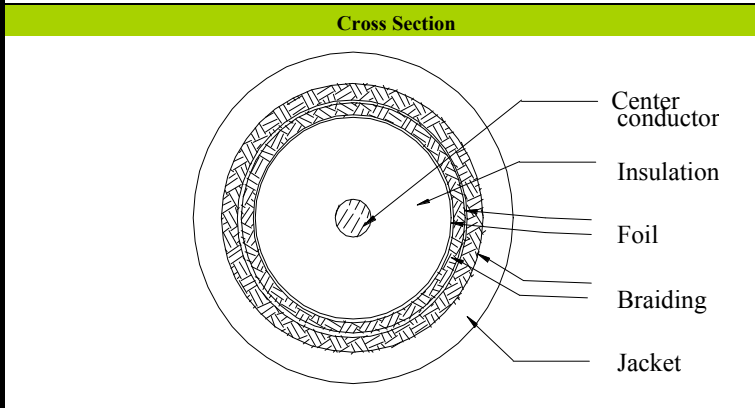
Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
0.772	64.0	66.0	63.0	575.0
1	62.3	63.8	60.8	570.0
4	53.3	51.7	48.7	552.0
8	48.8	45.7	42.7	546.7
10	47.3	43.8	40.8	545.4
16	44.3	39.7	36.7	543.0
20	42.8	37.7	34.7	542.0
25	41.3	35.8	32.8	541.2
31.25	39.9	33.9	30.9	540.4
62.5	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
100-200MHz	Impedance (ohms)	100± 25
200-350MHz	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

SCP-HNC-2 HOME NETWORKING CABLE Attachment 2 ---- RG6 Quad Shield Coaxial Cables



Marking
 E198134-S RG-6/U QUAD SHIELD 18AWG 75C (UL) TYPE CM OR CL2 SWEEP TESTED TO 2.2GHZ HDTV --- SCP ***** FEET

Description
Reference Standard
 SCTE IPS-SP-001, UL1655, UL13, UL444

Construction	
Center Conductor	Bare Copper
AWG	18
Dia.	1.02
Insulation	Skin Foam PE
Nom. Thickness(mm)	1.78
Insulation Dia. (±0.08mm)	4.57
The first Al-maylar Shield (Overlapping, %)	≥25
The first Braid Shield	Aluminium Wire
Construction (mm)	16/4/0.16
Coverage Area (%)	≥60
The Second Al-maylar Shield (Overlapping, %)	≥25
The Second Braid Shield	Aluminium Wire
Construction (mm)	16/3/0.16
Coverage Area (%)	≥40
Inner Jacket	PVC
Nom. Thickness (mm)	0.65
Min. Thickness(mm)	0.60
Cable Dia.(±0.10mm)	7.30

Color
Inner Jacket Color:
 White,Black

Performance

Electrical Characteristics:

Frequency (MHz)	Attenuation (dB/100m)
1	0.85
10	2.66
50	4.79
100	6.72
200	9.28
400	13.28
700	18.36
900	20.43
1000	21.61
1200	24.59
1450	26.36
1800	28.98
2200	32.03

Dielectric Strength (kV/min)	1.0
Impedence (±3.0ohms)	75.0
SRL (dB,5~2200MHz)	≥20
Capacitance (pF/m)	53.1
Conductor DCR@ 20°C (ohms/km)	≤21.4
Velocity Of Propagation (%)	≥82

Mechanical Characteristics:

Test Object	Jacket
Test Material	PVC
Before Tensile Strength (Mpa)	≥1.034
Aging Elongation (%)	≥200
Aging Condition (°C_hrs)	113.0±1.0 _ 168
After Tensile Strength (Mpa)	≥ 85% unaged
Aging Elongation (%)	≥ 50% unaged
Cold Bend (-20±2°C_4hrs)	No crack
Jacket impact test (-15°C)	No crack
Jacket Longitudinal Shrinkage (%)	≤5
Center Conductor Bond To dielectric (N)	≥2.3