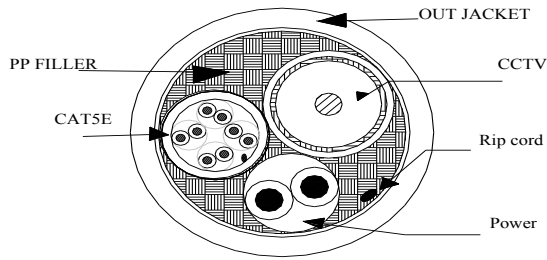


# SCP-ELAN-1 HOME NETWORKING CABLE

## Cross Section



## Performance

### POWER WIRE:

<b>Conductor</b>	16X0.254 stranded bare copper
AWG	18
Dia.(mm)	1.17
<b>Insulation</b>	<b>PVC</b>
Insulation Dia.(±0.1mm)	2.77
Jacket color	Red/Black
<b>Cabling Lay Length(±10mm)</b>	50
<b>JACKET:</b>	<b>PVC</b>
Average Thickness(±0.05mm)	0.78
Outer Dia.(±0.2mm)	<b>6.96</b>
<b>weight(kg/km)</b>	52.80
<b>Jacket color</b>	Gray

## Outer Jacket Marking

STRUCTURED CABLE PRODUCTS --- E198134-S UL OR C(UL) CM 75C RG59  
1x20AWG + 2x18AWG + 1xCAT5E ENHANCED 350MHZ 4PR UTP --- \*\*\*\*\*  
FEET

The Characteristics of RG59 CCTV and CAT5e refer to attachment

## Description

Rated Temperature (°C)

Product Standard Certification

Flammability Test

**One 4 Pair CAT5e UTP Cables**

Complies to TIA/EIA 568B

24AWG Solid Bare Copper Conductor / PE Insulation

**One RG59 CCTV**

Complies to UL1655, UL13, UL444

20AWG Bare Copper

95% B.C. Braid Shield

**Two powers**

18AWG Bare Copper

**Reference Standard**

TIA/EIA-568-B.2 & TIA/EIA-570A

### Mechanical Characteristics:

#### Test Object

Test Material		<b>Jacket</b>	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

## Construction

**1xCAT5E UTP LAN Cable**

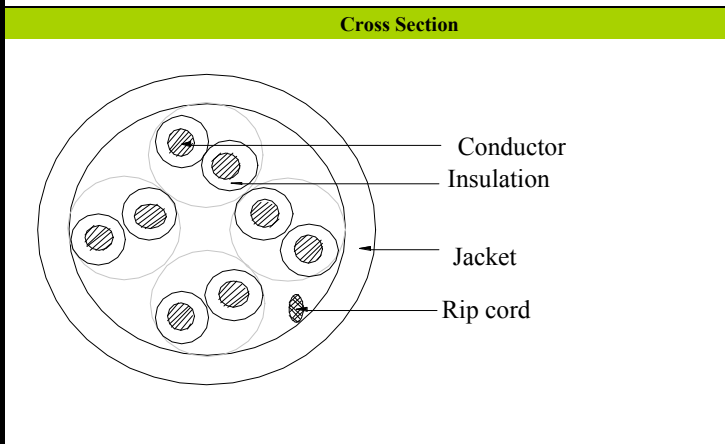
Detail See Attachment 1

**1xRG59 CCTV**

Detail See Attachment 2

<b>Cabling Lay Length(±100mm)</b>	350
PET Tape Wrapping	
Filled	PP filled
<b>Outer Jacket</b>	<b>PVC</b>
Average Thickness(mm)	1.00
Min. Thickness(mm)	0.85
Outer Dia.(±1.5mm)	13.2
Rip Cord	Yes
<b>Weight(kg/km)</b>	192.80

**SCP-ELAN-1 HOME NETWORKING CABLE Attachment 1 ---- 4 Pair CAT5e UTP Cables**



**Marking**

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 WYYY

**Description**

Rated Temperature (°C) 75  
 Product Standard Certification  
 Flammability Test  
**Application**  
 Horizontal Wiring in LAN  
**Reference Standard**  
 UL Subject 444,EIA/TIA568 & ISO/IEC 11801

**Construction**

<b>Conductor</b>	<b>Solid Bare Copper</b>
AWG	24
Conductor Dia. (mm)	0.525
<b>Insulation</b>	<b>PE</b>
Average Thickness(mm)	0.21
Min. Point Thickness(mm)	0.17
Insulation Dia.(±0.02mm)	0.91
<b>Twisting Lay Length(mm)</b>	30underneath
<b>Cabling Lay Length(±20mm)</b>	140
<b>Jacket</b>	<b>PVC</b>
Average Thickness(mm)	0.5
Min. Point Thickness(mm)	0.43
Outer Dia.(±0.2mm)	5.0
Rip Cord	YES
<b>Weight(kg/km)</b>	32

**Color**

**Insulation colors are:**  
 Blue, White/Blue  
 Orange, White/Orange  
 Green, White/Green  
 Brown, White/Brown  
**Jacket colors:** BLUE

**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	5.9	51.8	46
10	25.0	6.6	50.3	44
16	25.0	8.4	47.3	39
20	25.0	9.5	45.8	37
25	24.3	10.7	44.3	34
31.25	23.6	12.0	42.9	31
62.5	21.5	17.4	38.4	21
100	20.1	22.5	35.3	13
200	18.0	33.1	30.8	***
300	16.8	41.8	28.2	***
350	16.3	45.8	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

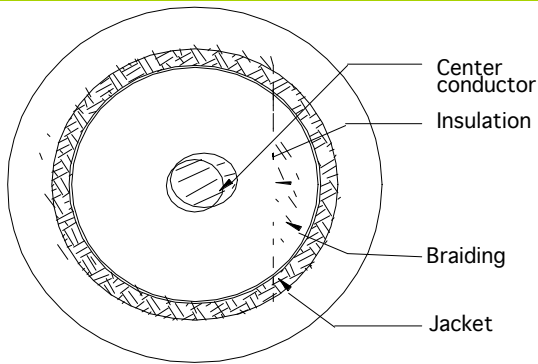
1.0-100.0MHz	Impedance (ohms)	100 ± 15
100-200MHz	Impedance (ohms)	100± 25
200-350MHz	Impedance (ohms)	100± 35
1.0-350.0MHz	Delay Skew (ns/100m)	<=45
	Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
	Max. Conductor DC Resistance 20°C (ohms/km)	93.8
	Resistance Unbalance (%)	<=5

**Mechanical Characteristics:**

<b>Test Object</b>	<b>Jacket</b>
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-ELAN-1 HOME NETWORKING CABLE Attachment 2 ---- RG59 CCTV**

**Cross Section**



**Performance**

**Electrical Characteristics:**

Frequency (MHz)	Attenuation (dB/100m)
1	0.99
10	2.90
100	9.25
400	19.96

**Marking**

E198134-S (UL) CM OR CL2 RG-59/U 20AWG 75C ---- SCP \*\*\*\*\* FEET

**Description**

**Reference Standard**  
UL1655, UL13, UL444  
Flammability Test

**Construction**

<b>Center Conductor</b>	<b>Bare Copper</b>
AWG	20
Dia.(+/-0.01mm)	0.82
<b>Insulation</b>	<b>Skin Foam PE</b>
Nom. Thickness(mm)	1.42
Insulation Dia. (±0.08mm)	3.66
<b>Braid Shield</b>	<b>Bare Copper</b>
Construction (mm)	16/7/0.16
Coverage Area (%)	>=95
<b>Inner Jacket</b>	<b>PVC</b>
Nom. Thickness (mm)	0.70
Min. Thickness(mm)	0.60
Cable Dia.(±0.2mm)	5.80
<b>weight(kg/km)</b>	48.00

**Color**

**Inner Jacket Color:** BLACK

Dielectric Strength (kV/min)	1.0
Impedence (±3.0ohms)	75.0
SRL (dB,5~1000MHz)	>=20
Capacitance (pF/m)	53.1
Conductor DCR@ 20°C (ohms/km)	<=33.8
Velocity Of Propagation (%)	>=82

**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
Inner Jacket impact test(-15°C)	No crack
Inner Jacket Longitudinal Shrinkage (%)	<=5
Center Conductor Bond To dielectric (N)	>=2.3