

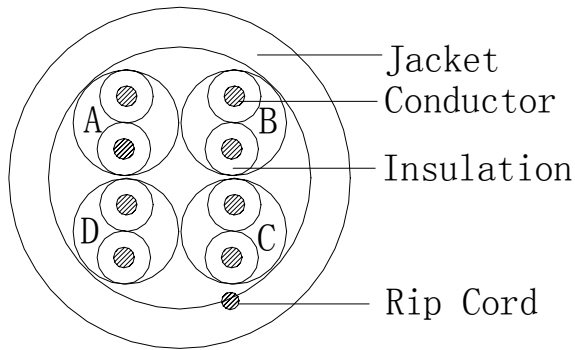
SCP → Structured Cable Products

4Pairs Cat5e UTP LSZH Cable Specification

4X2X0.475

DATE:2008.05.14

Cross Section



Marking

Description

Rated Temperature (°C)	75
Product Standard Certification	
Flammability Test	IEC-332-1

Application

Horizontal Wiring in LAN

Reference Standard

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

Construction

Conductor	Solid Bare Copper
AWG	24
Conductor Dia. (mm)	0.475
Insulation	PE
Average Thickness(mm)	0.18
Min. Point Thickness(mm)	0.203
Insulation Dia.(±0.01mm)	0.88
Twisted Pair Dia.(±0.02mm)	1.76
Assembly Dia.(±0.1mm)	3.80

Jacket

Average Thickness(mm)	0.60
Min. Point Thickness(mm)	0.51
Outer Dia.(±0.2mm)	5.00
Rip Cord	Per request

Color

Insulation colors are:

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

Jacket colors:

Per request

Marking

4PR CAT 5E ENHANCED (UL) OR C(UL) E198134
24AWG 350MHZ CMR VERIFIED TO TIA/EIA 568B.2
STRUCTURED CABLE PRODUCTS ZONE/JACK A B
C D E 0 1 2 3 4 5 6 7 8 9 ROHS ce xxxxxxFT

Performance

Electrical Characteristics:

Frequency (MHz)	Return loss (Min dB)	Attenuation Max (dB/100m)	NEXT (Min dB)
0.772	19.4	1.8	67.0
1	20.0	2.0	65.3
4	23.0	4.1	56.3
8	24.5	5.8	51.8
10	25.0	6.5	50.3
16	25.0	8.2	47.3
20	25.0	9.3	45.8
25	24.3	10.4	44.3
31.25	23.6	11.7	42.9
62.5	21.5	17.0	38.4
100	20.1	22.0	35.3
250	17.8	32.4	29.3
350	16.6	38.7	27.2

Frequency (MHz)	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	PSELFEXT Min (dB/100m)	Delay Max (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
250	26.3	15.8	12.8	536.3
350	24.2	12.9	9.9	535.9

1.0-100.0MHz Impedance (ohms) 100 ± 15

1.0-100.0MHz 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	LSZH
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