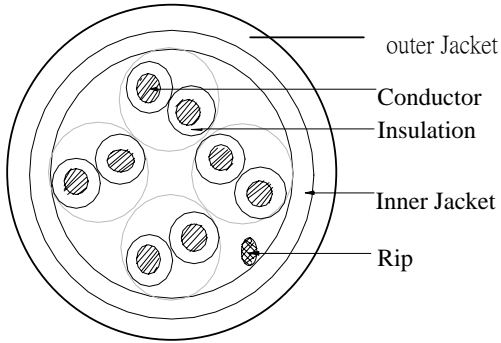


**4 PAIR 24AWG CAT5E UTP CABLE**

**Part No.:UPC-5004E-SO**

**Cross Section**



**Marking**

According to customers' requirements

**Description**

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

**Application**

Horizontal Wiring in LAN

**Reference Standard**

EIA/TIA568B.2 & ISO/IEC 11801

**Construction**

<b>Conductor</b>	<b>Solid Bare Copper</b>
AWG	24
Conductor Dia. (±0.001mm)	0.48
<b>Insulation</b>	<b>HDPE</b>
Average Thickness(±0.001mm)	0.2
Min. Point Thickness(mm)	0.18
Insulation Dia.(±0.005mm)	0.9
<b>Twisting Lay Length(mm)</b>	≤30
<b>Cabling Lay Length(±20mm)</b>	140
<b>Inner Jacket</b>	<b>PVC</b>
<b>Outer Jacket</b>	<b>LLDPE</b>
Average Thickness(mm)	0.5
Min. Point Thickness(mm)	0.4
Outer Dia.(±0.2mm)	5.1
Rip Cord	Per request

**Color**

**Insulation colors are:**

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

**Jacket colors:**

Grey

**Packing**

Revision History:

Rev:0

**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

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	537.4

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/PVC/PE
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