



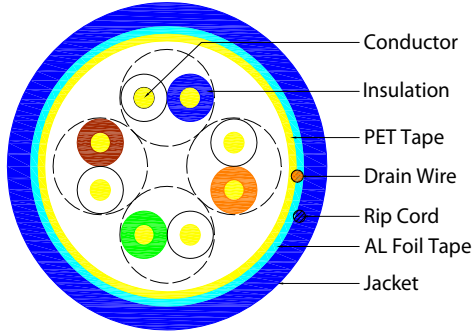
Structured Cable Products

Quality Installations Deserve Quality Products

INDOOR CAT 5E FTP SOLID LAN CABLE 24AWG 4Pairs PVC

Part No:CAT5E-SH-BL

Cross Section



Electrical Characteristics(20°C)

Standard : TIA/EIA-568-B.2 & IEC/ISO 11801
 Product Standard Certification : E310605

Test Item	Units	Spec
1. Conductor D.C. Resistance	/100m	≤ 9.5
2. Unbalance of Pair D.C Resistance	%	≤ 2.5
3. Dielectric Strength between Pairs	kv/min	≤ 1.0
4. Dielectric Strength Conductor to Screen	kv/min	≤ 2.5
5. Insulation Resistance	M · km	≥ 5000
6. Capacitance	nF/100m	≤ 5.6
7. Unbalance of Capacitance	pF/100m	≤ 330
8. Characteristic impedance(1 to 100MHz)		100±15
9. Characteristic impedance(155 to 350MHz)		100±30
10. Short or Open of the loop		None
11. Shield		Continue

Cable Description

1) Conductor :	
Number of Pairs	4
Total Number of Conductors	8
AWG	24
Dia. of Conductor	0.50±0.01mm
Conductor Material	BC - Bare Copper
Elongation	≥ 15%
2) Insulate :	
Insulate Material	HDPE- Polyethylene
Nom. Thickness	0.23mm
Dia.	0.98±0.05mm
Color Cord	Pair 1 : White-Blue/Blue Pair 2 : White-Orange/Orange Pair 3 : White-Green/Green Pair 4 : White-Brown/Brown
3) Paired :	
Length of Lay	<30mm
4) Cabling:	
Order of the Pair	See the Cross Section
PET Polyester Tape	0.03×18mm
Drain Wire	24AWG
Drain Wire Conductor Material	TC - Tinned Copper
Vertical Wrap	AL Foil-Polyester Tape 0.045×18mm
Outer Shield %Coverage	100%
5) Sheath:	
Outer Sheath Material	PVC - Polyvinyl Chloride
Color	Blue
Rip Cord	200D×3
Nom. Thickness	0.54±0.05mm
O.D.	6.00±0.3mm
Marking	Per Customer
6) Packing:	
Packing Mark	Accord to Contract
Appearance	Orderliness
Reel	Per Request

Other Characteristics

Subtle	40.00 kg/km
Length	305m Reel Box 500m Plywood Drum 1000m Plywood Drum 2000m Plywood Drum

Revision History

Date :	De ne by :	Rev : A/0
Prepared by : King	Date : 2007-01-16	
Approved by : WangYuanYuan	Page : 1 of 1	

Frequency (MHz)	RL (dB)	SRL (dB)	ATTEN (dB/100m)	NEXT (dB/100m)
1	20.0	28.0	2.0	65.3
4	23.0	28.0	4.0	56.3
8	24.5	28.0	5.7	51.8
10	25.0	28.0	6.4	50.3
16	25.0	28.0	8.2	47.2
20	25.0	25.0	9.2	45.8
25	24.3	27.0	10.3	44.3
31.25	23.6	26.1	11.6	42.9
62.5	21.5	23.1	16.8	38.4
100	20.1	21.0	21.7	35.3
155	18.8	19.1	27.6	32.5
200	18.0	18.0	31.8	30.8
250	17.3	17.0	36.1	29.3
300	16.8	16.2	40.0	28.1
350	16.3	15.6	43.8	27.1

Frequency (MHz)	PSNEXT (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
1	62.3	64.0	61.0	45.0
4	53.3	52.0	49.0	45.0
8	48.8	45.9	42.9	45.0
10	47.3	44.0	41.0	45.0
16	44.2	39.9	36.9	45.0
20	42.8	38.0	35.0	45.0
25	41.3	36.0	33.0	45.0
31.25	39.9	34.1	31.1	45.0
62.5	35.4	28.1	25.1	45.0
100	32.3	24.0	21.0	45.0
155	29.5	20.2	17.2	45.0
200	27.8	18.0	15.0	45.0
250	26.3	16.0	13.0	45.0
300	25.1	14.5	11.5	45.0
350	24.1	13.1	10.1	45.0

Mechanical Characteristics

Test Object	Jacket
Test Material	PVC
Before Tensile Strength(Mpa)	≥ 13.5
Aging Elongation(%)	≥ 150
Aging Condition(×hrs)	100×168
Before Tensile Strength(Mpa)	≥ 12.5
Aging Elongation(%)	≥ 125
Cold Bend(-20± ×4hrs)	No crack

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