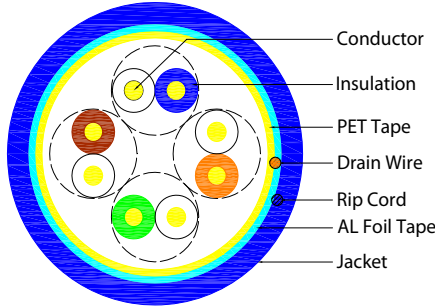


Product Specification sheet for:

CAT5E-SH

CAT 5E 350 MHz, 24 AWG, SHIELDED - BLUE, GRAY, WHITE, BLACK

CONSTRUCTION DETAIL



PHYSICAL CONSTRUCTION

1) Conductor :	
Number of Pairs	4
AWG	24
Total Number of Conductors	8
Dia. of Conductor	Φ 0.50±0.01mm
Conductor Material	BC - Bare Copper
2) Insulate:	
Insulate Material	HDPE - Polyethylene
Nom. Thickness	0.23mm
Dia.	Φ 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	
4) Cabling:	
Order of the Pair	See the Cross Section
PET Polyester Tape	0.03x18mm
Drain Wire	24AWG
Drain Wire Conductor Material	TC - Tinned Copper
Vertical Wrap	AL Foil-Polyester Tape 0.045x18mm
Outer Shield %Coverage	100%
5) Sheath:	
Outer Sheath Material	PVC - Polyvinyl Chloride
Color	Blue
Rip Cord	200Dx3
Nom. Thickness	0.54±0.05mm
O.D.	Φ 6.00±0.3mm
6) Packing:	
Packing Mark	Accord to Contract
Appearance	Orderliness
Jacket Color:	Per request

SPECIFICATION CONTROL

Structured Cable Products specifications are subject to change without notice. Please contact a sales representative for a current product specification. Structured Cable Products strives to ensure product specifications are complete, current, and accurate. Please note, all physical specifications are nominal.

ELECTRICAL CHARACTERISTICS

Standard	TIA/HA-568-B.2 & IFC/ISO 11801
Product Standard Certification	E310605
TestItem	Units Spec
1. Conductor D.C. Resistance	Ω/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	MΩ/km ≥5000
6. Capacitance	nF/100m ≤5.6
7. Unbalance of Capacitance	pF/100m ≤330
8. Characteristic impedance (1 to 100MHz)	Ω 100±15
9. Characteristic impedance (155 to 350MHz)	Ω 100±30
10. Short or Open of the loop	None
11. Shield	Continue

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

MECHANICAL CHARACTERISTICS

Test Object	Jacket
Test Material	PVC
Before	Tensile Strength (Mpa) ≥=13.5
Aging	Elongation (%) ≥=150
Aging Condition (°Cxhrs)	100x168
After	Tensile Strength (Mpa) ≥=85% of unaged
Aging	Elongation (%) ≥=50% of unaged
Cold Bend (-20±2°Cx4hrs)	No crack