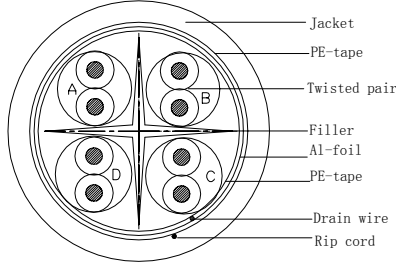


Product Specification sheet for:

# CAT6-SH

CAT6E SHIELDED- 550 MHz 23 AWG STP

## CONSTRUCTION DETAIL



## PHYSICAL CONSTRUCTION

<b>Conductor</b>	<b>Solid Bare Copper</b>
AWG	23
Conductor Dia. (mm)	0.585
<b>Insulation</b>	<b>PE</b>
Average Thickness(mm)	0.258
Min. Point Thickness(mm)	0.245
Insulation Dia.(±0.01mm)	1.10
<b>Twisted Pair Dia.(±0.02mm)</b>	<b>2.20</b>
Separator	LDPE
Pe-tape	Yes
Drain wire (TC)	0.40
Al-foil	Yes
Pe-tape Yes	
<b>Assembly Dia.(mm)</b>	<b>6.60</b>
<b>Jacket</b>	<b>PVC</b>
Average Thickness(mm)	0.65
Min. Point Thickness(mm)	0.60
Outer Dia.(±0.20mm)	8.00
Rip Cord	Per request

## COLOR

The color of the wire pair in cables  
 Blue-White/Blue  
 Orange-White/Orange  
 Green-White/Green  
 Brown-White/Brown

**Jacket Color:** Per request

## MARKING

STRUCTURED CABLE PRODUCTS---CAT6 SHIELDED ENHANCED  
 550 MHZ VERIFIED to TIA/EIA 568-B.2.1 E198134 (UL) OR C(UL)  
 CMR FT4 75C 23AWG 4PR ZONE/DEVICE A B C D E 0  
 1 2 3 4 5 6 7 8 9 ROHS ce XXXFT

## ELECTRICAL CHARACTERISTICS

1.0-250.0MHz Impedance (ohms)	100 ± 15
1.0-250.0MHz Delay Skew (ns/100m)	≤45
Pair-to-Ground Capacitance Unbalance (pF/100m)	≤330
Max. Conductor DC Resistance 20°C (ohms/km)	95
Resistance Unbalance (%)	≤5

FREQUENCY (MHZ)	RL (DB)	ATTEN (DB/100M)	NEXT (DB/100M)
0.772	19.4	1.8	76.0
1	20.0	2.0	74.3
4	23.0	3.8	65.3
8	24.5	5.3	60.8
10	25.0	6.0	59.3
16	25.0	7.6	56.2
20	25.0	8.5	54.8
25	24.3	9.5	53.3
31.25	23.6	10.7	51.9
62.5	21.5	15.4	47.4
100	20.1	19.8	44.3
200	18.0	29.0	39.8
250	17.3	32.8	38.3
300	16.8	36.4	39.2
400	15.9	43	37.3

FREQUENCY (MHZ)	PSNEXT (DB/100M)	ELFEXT (DB/100M)	DELAY (NS/100M)
0.772	74.0	70.0	-
1	72.3	67.8	570.0
4	63.3	55.8	552.0
8	58.8	49.7	546.0
10	57.3	47.8	545.0
16	54.2	43.7	543.0
20	52.8	41.8	542.0
25	51.3	39.8	541.0
31.25	49.9	37.9	540.0
62.5	45.4	31.9	538.0
100	42.3	27.8	537.0
200	37.8	21.8	536.0
250	36.3	19.8	536.0
300	37.2	18.2	535.0
400	35.3	15.7	534.0

## MECHANICAL CHARACTERISTICS

Test Object	Jacket
Test Material	PVC
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

## 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.