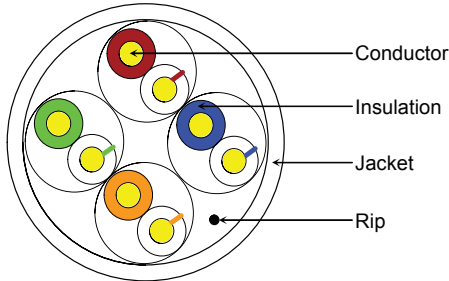


Product Specification sheet for:

# CAT5E

CAT 5E 350 MHz, 24 AWG, PVC AVAILABLE COLORS = BLACK, BLUE, GRAY, GREEN, PURPLE, RED, WHITE, YELLOW

## CONSTRUCTION DETAIL



## DESCRIPTION

Rated Temperature (°C)	75
Product Standard Certification	UL File E19813
Rated Voltage(V)	30
Flammability Test	CMR
Application	Horizontal Wiring in LAN
Reference Standard	YD/T1019-2001, UL Subject 444, EIA/TIA568 & ISO/IEC 11801

## PHYSICAL CONSTRUCTION

Conductor	Solid Bare Copper
Conductor Dia. ( ± 0.005 mm )	0.485
Insulation	PE
Average Thickness ( mm )	0.21
Min. Point Thickness ( mm )	0.20
Insulation Dia. ( ± 0.02 mm )	0.92
Twistin Lay Length ( mm )	30 underneath
Cabling Lay Length ( ± 20 mm )	100.0
Jacket	PVC
Average Thickness ( mm )	0.45
Min. Point Thickness ( mm )	0.43
Outer Dia. ( ± 0.2 mm )	4.8
Rip Cord	Per Request
Weight ( kg/km )	31.40

## 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---CAT5E  
 350 MHZ VERIFIED to TIA/EIA 568-B.2.1 E198134 (UL) OR C(UL)  
 CMR FT4 75C 24AWG 4PR ZONE/DEVICE A B C D E O  
 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)	87.66
Resistance Unbalance (%)	<=5

FREQUENCY (MHZ)	RL (DB)	ATTEN (DB/100M)	NEXT (DB/100M)	ACR (DB)
1.00	20.00	2.04	65.30	
4.00	23.01	4.05	56.27	
8.00	24.52	5.77	51.75	
10.00	25.00	6.47	50.30	
16.00	25.00	8.25	47.24	
20.00	25.00	9.27	45.78	
25.00	24.32	10.42	44.33	
31.25	23.64	11.72	42.88	
62.50	21.54	16.99	38.36	
100.00	20.11	21.98	35.30	
200.00	18.92	32.42	30.78	
250.00	17.60	36.85	29.33	
350.00	16.30	44.85	27.14	

FREQUENCY (MHZ)	PSNEXT (DB/100M)	ELFEXT (DB/100M)	PSELFEXT (DB/100M)	DELAY (NS/100M)
1.00	62.30	64.00	61.00	570.00
4.00	53.27	51.96	48.96	552.00
8.00	48.75	45.96	42.94	546.73
10.00	47.30	44.00	41.00	545.38
16.00	44.24	39.92	36.92	543.00
20.00	42.78	37.98	34.98	542.05
25.00	41.33	36.04	33.04	541.20
31.25	39.88	34.10	31.10	540.44
62.50	35.36	28.08	24.88	538.55
100.00	32.30	24.00	21.00	537.60
200.00	27.78	17.87	14.78	537.02
250.00	26.33	15.84	12.84	536.28
350.00	24.14	12.92	9.92	535.92

## MECHANICAL CHARACTERISTICS

Test Object	Jacket
Test Material	PVC
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

## 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.