

PRODUCT SPECIFICATION SHEET

Product Name: CAT5e Bulk 50ft Cable

Mechanical Characteristics	
Test Object	Jacket
Test Material	PVC
Aging Condition	Before Tensile Strength (Mpa) Aging Elongation (%) (°Cxhrs) After Tensile Strength (Mpa) Aging Elongation (%)
Cold Bend (-20 ± 2 °Cx4hrs)	No Crack
Marking:	E198134 UL CMR CAT5e 4PR 24AWG UTP 75°C---C-UL
Description	
Rated Temperature	75°C
Product Standard Certification	UL File E198134
Flammability Test	CM/CMR/CMP
Reference Standard	YD/T1019-2001, UL Subject 444, EIA/TIA568 & ISO/IEC 11801
Construction	
Conductor	Solid/Stranded Bare Copper
AWG	24
Conductor Dia. (± 0.005 mm)	0.485
Insulation	PE
Average Thickness (mm)	0.21
Min. Point Thickness (mm)	0.2
Insulation Dia. (± 0.02 mm)	0.92
Twisting Lay Length (mm)	30 underneath
Cabling Lay Length (± 20 mm)	100
Jacket	PVC
Average Thickness (mm)	0.45
Min. Point Thickness (mm)	0.43
Outer Dia. (± 0.2 mm)	4.8
Weight (kg/km)	31.4

Insulation Color	
1st Pair	Blue, White/Blue
2nd Pair	Orange, White/Orange
3rd Pair	Green, White/Green
4th Pair	Brown, White/Brown

Electrical Characteristics								
CAT5e Specs - Performance								
Frequency		Return Loss	Attenuation	NEXT	PSNEXT	ELFEXT	PSELFET	DELAY
(MHz)	(dB)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(ns/100m)
1.00	20.00	2.04	65.30	62.30	64.00	61.00	570.00	
4.00	23.01	4.05	56.27	53.27	48.96	48.96	552.00	
8.00	24.52	5.77	51.75	48.75	42.94	42.94	546.73	
10.00	25.00	6.47	50.30	47.30	41.00	41.00	545.38	
16.00	25.00	8.25	47.24	44.24	36.92	36.92	543.00	
20.00	25.00	9.27	45.78	42.78	34.98	34.98	542.05	
25.00	24.32	10.42	44.33	41.33	33.04	33.04	541.20	
31.25	23.64	11.72	42.88	39.88	31.10	31.10	540.44	
62.50	21.54	16.99	38.36	35.36	24.88	24.88	538.55	
100.00	20.11	21.98	35.30	32.30	21.00	21.00	537.60	
200.00	18.92	32.42	30.78	27.78	14.78	14.78	537.02	
250.00	17.60	36.85	29.33	26.33	12.84	12.84	536.28	
350.00	16.30	44.85	27.14	24.14	9.92	9.92	535.92	
1.0 ~ 100.0MH Impedance (ohms)	100 ± 15							
1.0 ~ 100.0MH 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							