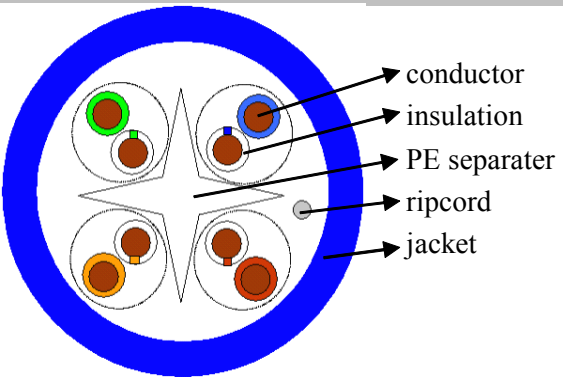


# CAT6 UTP Solid Specifications

Cross Section		Electrical characteristics				
 <p>Labels in diagram:            conductor            insulation            PE separator            ripcord            jacket</p>		<b>Freq. (Mhz)</b>	<b>RL (dB)</b>	<b>Atten. (dB/100m)</b>	<b>Next (dB)</b>	<b>Acr. (dB)</b>
		1	20.00	2.04	74.29	
		4	23.01	3.78	65.26	
		8	24.51	<b>5.32</b>	60.75	
		10	25.00	5.95	59.29	
		16	25.00	7.55	56.23	
		20	25.00	8.47	54.78	
		25	24.32	9.51	53.33	
		31.25	23.64	10.67	51.87	
		50.0	22.21	13.66	48.81	
		62.5	21.53	15.38	47.36	
		100	20.10	19.80	44.30	
		125	19.42	22.35	42.84	
200	18.00	28.98	39.78			
250	17.32	32.85	38.33			
350	16.29	39.79	36.14			
550	14.92	51.76	33.19			
<b>Description</b>		<b>Freq. (Mhz)</b>	<b>PsNext (dB)</b>	<b>ElFext (dB/100m)</b>	<b>PsElFext (dB/100m)</b>	<b>Dop (ns/100m)</b>
Product standard certification: UL & C(UL)		1	72.29	67.79	64.79	570.00
Flammability test: CMR, CM, CMG, FT4		4	63.26	55.75	52.75	552.00
Reference standard: UL subject 444, EIA/TIA 568 & ISO/IEC 11801		8	58.75	49.73	46.73	546.72
Rated temperature: 75 deg.		10	57.29	47.79	44.79	545.38
UL / CSA approved		16	54.23	43.71	40.71	543.00
<b>Construction</b>		20	52.78	41.77	38.77	542.04
Conductor:	solid bare copper	25	51.33	39.84	36.84	541.20
AWG:	23	31.25	49.87	37.90	34.90	540.43
Insulation:	PE, 1.03mm	50.0	46.81	33.82	30.82	539.09
Separator:	PE material	62.5	45.36	31.88	28.88	538.55
Ripcord:	Nylon (150D)	100	42.29	27.79	24.79	537.60
Outer jacket:	PVC	125	40.84	25.86	22.86	537.21
Overall dia.	6.5 +/- 0.3mm	200	37.78	21.77	18.77	536.54
<b>Mechanical characteristics</b>		250	36.33	19.84	16.84	536.27
Test object:	jacket	350	34.14	16.92	13.92	535.92
Test material:	PVC	550	31.19	12.99	9.99	535.54
before tensile Strength (Mpa):	>=13.8					
aging elongation (%):	>=100					
Aging condition (°C xHrs):	100x48					
after tensile strength (Mpa):	>=85% of unaged					
aging elongation (%):	>=50% of unaged					
Cold bend (-20+/-2 x 4hrs):	No crack.					