

CAT5e UTP Plenum Solid Specifications

Cross Section	Electrical characteristics				
	Freq. (Mhz)	RL (dB)	Atten. (dB/100m)	Next (dB)	Acr. (dB)
Description	1	20.00	2.04	65.30	
Product standard certification: UL, C(UL), NEC	4	23.01	4.05	56.26	
Flammability test: CMX, CM, CMG, CMP, FT6	8	24.51	5.76	51.75	
Reference standard: UL subject 444, EIA/TIA 568 & ISO/IEC 11801	10	25.00	6.46	50.30	
Rated temperature: 75 deg.	16	25.00	8.24	47.23	
UL / CSA approved	20	25.00	9.26	45.78	
Construction	25	24.32	10.42	44.33	
Conductor: solid bare copper	31.25	23.64	11.72	42.87	
AWG: 24	50.0	22.21	15.06	39.81	
Insulation: PE/FEP, 0.93mm	62.5	21.53	16.99	38.36	
Ripcord: Nylon (150D)	100	20.10	21.97	35.29	
Outer jacket: Plenum PVC	125	19.42	24.87	33.84	
Overall diameter: 5.2 +/- 0.2mm	200	18.00	32.42	30.78	
Mechanical Characteristics	250	17.32	36.85	29.33	
Test object: jacket	300	16.76	40.97	28.14	
Test material: PVC	350	16.29	44.85	27.13	
Before tensile strength (Mpa): >=13.8	Freq. (Mhz)	PsNext (dB)	ElFext (dB/100m)	PsElFext (dB/100m)	Dop (ns/100m)
Aging elongation (%): >=100	1	62.3	63.8	60.8	570.00
Aging condition (°C xHrs): 100x48	4	53.26	51.75	48.75	552.00
After tensile strength (Mpa): >=80% of unaged	8	48.75	45.73	42.73	546.72
Aging elongation (%): >=50% of unaged	10	47.3	43.80	40.79	545.38
Cold bend (-20+/-2 x 4hrs): No crack	16	44.23	39.71	36.71	543.00
Jacket Marking	20	42.78	37.77	34.77	542.04
Binary™ by SnapAV, CAT5E PLENUM,	25	41.33	35.84	32.84	541.20
E325177 (UL) C(UL) CMP FT-6, TIA/EIA 568B,	31.25	39.87	33.90	30.90	540.43
UTP CAT5E, 4PAIR 24AWG UNSHIELDED	50.0	36.81	29.82	26.82	539.09
350MHZ 75C, MMYX, xxxFT	62.5	35.36	27.88	24.88	538.55
	100	32.29	23.79	20.79	537.60
	125	30.84	21.86	18.86	537.21
	200	27.78	17.77	14.77	536.54
	250	26.33	15.84	12.84	536.27
	300	25.14	14.25	11.25	536.07
	350	24.13	12.91	9.91	535.92