



Plenum - Multi-Conductor - Category 5E UTP - Bare Copper

General Description:	CAT5E (350MHz), 4 Pair, UTP-Unshielded, CMP (Plenum), 24 AWG, Solid Bare Copper Conductors, Geintech FEP/HDPE Insulation, Ripcord, Plenum PVC Jacket							
Physical Characteristics:	Conductor	# of Pairs	AWG	Stranding	Conductor Material	Rip Cord		
		4	24	Solid	Solid Bare Copper	Nylon		
Nominal Cable Diameter	0.020"	Minimum Bend Radius		1.52"	Nominal Weight	23 lbs		
Dielectric Material / Nom. Diameter	Geintech FEP (3pairs) / 0.0358"			Outer Jacket Material	CMP - Plenum PVC			
	HDPE (1pair) / 0.0366"			Diameter over Jacket	0.189" ± 0.008"			
Dielectric Avg. Thickness	0.0080 ± 0.002"			Nom. Jacket Thickness	0.0181"			
Flame Test of Cable	UL Fire testing of CMP			Minimum Spot	0.014"			
Mechanical Characteristics:	Installation Temperature Range			Operating Temperature Range				
	(-) 20°C to (+) 60°C			(-) 20°C to (+) 75°C				
Electrical Characteristics:	DC Resistance (max)		DCR Unbalance (max)		Nominal Mutual Capacitance			
	9.38 Ω / 100m @ 20°C		5% (@ 20°C)		5.6 pF / 100m @ 1KHz			
Voltage	Maximum Skew		Characteristic Impedence	Velocity of Propagation	Max Propagation Delay			
300	45 ns / 100m		100 ± 15 Ω	69% Nom.	100MHz 538ns/100m			
Electrical Performace - TIA 568-C.2				Note: Values above 100 MHz are for information only				
Frequency (MHz)	Attenuation (max)	NEXT (dB) (min)	PSNEXT (dB) (min)	ACR (dB) (min)	PSACR (dB) (min)	ACRF (dB) (min)	PSACRF (dB) (min)	Return Loss (min)
1	3.0	60.0	57.0	57.0	54.9	58.6	55.6	19.0
4	3.9	54.8	51.8	50.9	47.9	46.6	43.6	19.0
10	6.2	48.5	45.5	42.3	39.3	38.6	35.6	19.0
16	7.9	45.2	42.2	37.3	34.3	34.5	31.5	19.0
20	8.9	43.7	40.7	34.8	31.8	32.6	29.6	19.0
31.25	11.2	40.5	37.5	29.3	26.3	28.7	25.7	17.1
62.5	16.2	35.7	32.7	19.4	16.4	22.7	19.7	14.1
100	21.0	32.3	29.3	11.3	8.3	18.6	15.6	12.0
155	27.2	30.6	28.3	10.2	7.6	16.3	13.3	11.0
200	30.6	28.3	26.6	8.7	6.5	14.5	11.5	10.6
300	34.5	25.8	23.3	5.3	3.3	12.4	9.0	10.0
350	37.1	23.5	21.5	4.6	2.6	11.4	7.9	8.6
Cable Marking :	Geintech CAT5E TESTED TO 350MHz --E329281 UTP 4PR 24AWG CMP (UL)C(UL) ---ETL VERIFIED TO ANSI/TIA-568-C.2 ROHS COMPLIANT ****FT							

Part #	Color	Put-up	
P-CAT5EBL	Blue	1,000'	Reelex Box
P-CAT5EWH	White	1,000'	Reelex Box

Pair Color Code	
1	Blue/Blue+White Stripes
2	Orange/Orange+White Stripes
3	Green/Green+White Stripes
4	Brown/Brown+White Stripes

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