



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				
	(-) 4°F to (+) 140°F			(-) 4°F to (+) 167°F				
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










Geintech Technologies, Inc. 14403 Ramona Ave, Unit B, Chino, CA 91710 Toll Free: 855.606.7722 www.GEINTECH.com