



Multi-Conductor - Category 6 UTP - Bare Copper

General Description:	CAT6 (Swept to 550MHz), 4 Pair, UTP-Unshielded, CMR (Riser), 23 AWG, Solid Bare Copper Conductors, HDPE Insulation, Ripcord, PVC Jacket					
Physical Characteristics:	# of Pairs	AWG	Stranding	Conductor Material	Rip Cord	Separator
	4	23	Solid	Solid Bare Copper	Nylon	LDPE Cross
Nominal Cable Diameter	0.0224"	Minimum Bend Radius		1.92"	Nominal Weight	27.5 lbs
Dielectric Material		High Density PE		Outer Jacket Material		CMR - PVC
Dielectric Overall Diameter		0.041" ± 0.002"		Diameter over Jacket		0.240" ± 0.016"
Dielectric Avg. Thickness		0.009" ± 0.002"		Nom. Jacket Thickness		0.0216"
Mechanical Characteristics:	Installation Temperature Range			Operating Temperature Range		
	(-) 20°C to (+) 60°C			(-) 20°C to (+) 60°C		
Electrical Characteristics:	DC Resistance (max)		DCR Unbalance (max)		Nominal Mutual Capacitance	
	6.66 Ω / 100m @ 20°C		2.5% (@ 20°C)		4.6 pF / 100m	
Voltage	Maximum Skew		Characteristic Impedance		Nom. Velocity of Propagation	
	300		20 ns / 100m		100 ± 15 Ω	

Electrical Performance - TIA 568-C.2

Note: Values above 250 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	65.0	62.0	62.1	59.0	64.2	61.2	19.0
4	3.5	64.1	61.8	60.6	58.3	52.2	49.2	21.0
10	5.6	59.4	55.5	54.4	49.9	44.2	41.2	21.0
16	7.0	57.8	52.2	52.3	45.2	40.1	37.1	20.0
20	7.9	53.1	50.7	45.2	42.8	38.2	35.2	19.5
31.25	10.0	50.0	47.5	40.0	37.6	34.3	31.3	18.5
62.5	14.4	45.1	42.7	30.8	28.3	28.3	25.3	16.0
100	18.6	41.8	39.3	23.4	20.8	24.2	21.2	14.0
150	22.1	39.2	36.8	15.4	14.2	21.6	17.8	12.7
200	27.4	36.9	34.3	9.9	7.2	18.2	15.2	11.0
250	35.3	35.3	32.7	4.6	2.0	16.2	13.2	10.0
350	43.2	31.0	28.5	1.6	0.0	13.1	10.1	8.9
550	52.0	25.6	22.5	—	—	10.6	7.6	7.2

Cable Marking :

Geintech E329281-T 4PR 23AWG CMR (UL)C(UL)--ETL VERIFIED TO ANSI/TIA-568-C.2 UTP CAT6 LAN CABLE MM/DD/YYYY ROHS COMPLIANT ****FT

Part #	Color	Put-up	
CAT6BL	Blue	1,000'	Reelex Box
CAT6WH	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