

Cat6 Plenum UTP Pure Copper Cable

U/UTP Cable | Solid Bare Copper | 1000 Ft

SKU: ET-CAT6-PC

23AWG • 4 Twisted Pairs • CMP • U/UTP 550MHz



Packaging Available

1000ft Pull Box

Jacket Colors



Key Features



High-Performance Data Communication Cable



Suitable for 550MHz High Speed Data Applications Fast Ethernet and 1000Mbps T1-1000BASE-T



Designed for Indoor Installations



Flame Retardant – Plenum Rated



Category 6 (Cat6)



4 Twisted Pairs (23AWG Solid Bare Copper)



CMP Plenum Rated Jacket (Indoor/Plenum)



1000ft Pull Box

Print Legend

CAT6 550MHZ CMP PLENUM UTP 4-PAIR 23AWG 1000FT

Technical Information

Conductor	Solid Bare Copper
Str line	No
Insulation	HDPE
Conductor Dia (mm)	0.57mm
Data Transfer	550MHz
Jacket	Plenum (CMP)
Weight	28 lbs
Spline	PE-

Color of Pairs

 Pair 1	 Pair 2	 Pair 3	 Pair 4
Blue / White-Blue	Orange / White-Orange	Green / White-Green	Brown / White-Brown



Standard Compliances

ISO/IES, RoHS Compliant, T50/IEC 11801, CLASSE, ANSI/TIA-568-C.2, Cat6, CENELEC EN 50173-1, IEC61156-5.



Applications

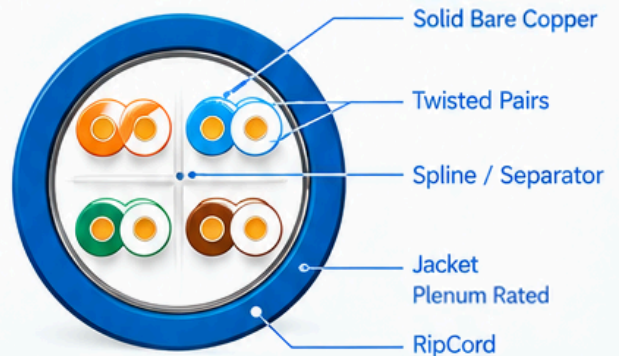
- 1000 Base-TX • 1000 Base-TX • 1000G - AnyLAN
- 100 Base-T (Gigabit Ethernet) • 155 Mbps ATM • 622 Mbps ATM



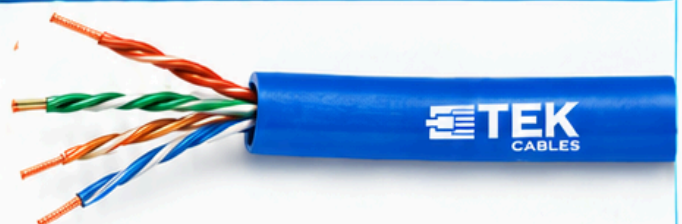
Marking

ETEK CABLES Cat6 550MHz CMP Plenum UTP 4-PAIR 23AWG 1000FT

Cross-Section



Product Image



965 Highlands CT,
Woodbridge, VA 22191



+1 845 795 3165



www.tekcables.com



Cable ID: ET-CAT6-PC

Test Limit: TIA Cat 6 Perm. Link
Limits Version: V7.5 Date / Time:
07/09/2021 01:14:46 PM Operator:
LXIAOHONG Headroom 3.5 dB
(NEXT 1.2-3.6) Cable Type: Cat 6
U/UTP NVP: 69.0%

Main: Versiv
S/N: 2034142
Software Version: V6.5 Build 5
Calibration Date: 12/23/2020
Adapter: DSX-8000 (DSX-PLA804)
S/N: 20475125

Test Summary: PASS

Remote: Versiv
S/N: 2035009
Software Version: V6.5 Build 5
Calibration Date: 12/23/2020
Adapter: DSX-8000R (DSX-PLA804)
S/N: 20485133

Length (ft), Limit 295	[Pair 3,6]	305
Prop. Delay (ns), Limit 498	[Pair 7,8]	464
Delay Skew (ns), Limit 44	[Pair 7,8]	15
Resistance (ohms)	[Pair 7,8]	15.53

Insertion Loss Margin (dB)	[Pair 7,8]	1.6
Frequency (MHz)	[Pair 7,8]	250.0
Limit (dB)	[Pair 7,8]	31.1

Worst Case Margin Worst Case Value

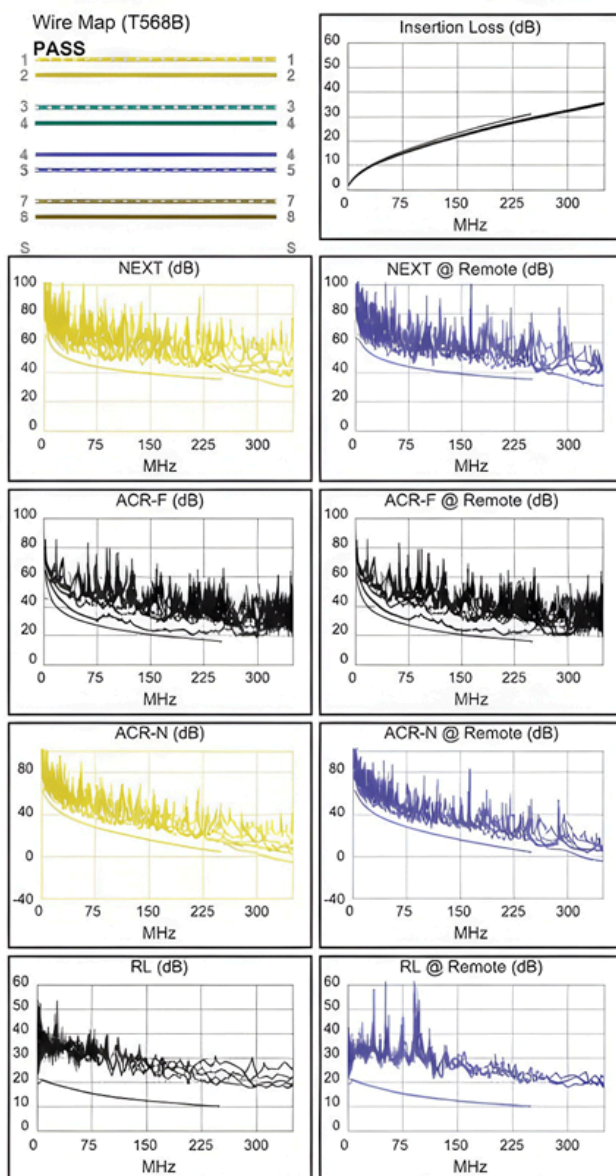
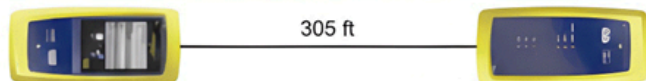
PASS	MAIN	SR	MAIN	SR
Worst Pair	3.6-4.5	1.2-3.6	3.6-4.5	1.2-4.5
NEXT (dB)	3.9	3.5	6.0	5.5
Freq. (MHz)	35.5	80.8	246.0	210.5
Limit (dB)	49.1	43.3	35.5	36.6
Worst Pair	3.6	3.6	3.6	3.6
PS NEXT (dB)	5.2	4.4	6.2	6.0
Freq. (MHz)	5.5	83.8	236.0	220.5
Limit (dB)	59.6	40.6	33.1	33.6

PASS	MAIN	SR	MAIN	SR
Worst Pair	3.6-1.2	3.6-1.2	3.6-1.2	3.6-1.2
ACR-F (dB)	2.0	1.8	2.0	1.9
Freq. (MHz)	209.5	151.0	209.5	208.5
Limit (dB)	17.8	20.6	17.8	17.8
Worst Pair	1.2	1.2	1.2	1.2
PS ACR-F (dB)	4.3	4.3	4.3	4.3
Freq. (MHz)	209.0	208.5	209.0	208.5
Limit (dB)	14.8	14.8	14.8	14.8

N/A	MAIN	SR	MAIN	SR
Worst Pair	3.6-4.5	1.2-3.6	3.6-4.5	1.2-3.6
ACR-N (dB)	4.5	4.5	7.9	10.1
Freq. (MHz)	35.5	80.8	246.0	247.0
Limit (dB)	38.4	26.8	4.6	4.5
Worst Pair	3.6	3.6	3.6	1.2
PS ACR-N (dB)	5.5	5.5	9.4	10.2
Freq. (MHz)	55.5	23.7	1.6	247.5
Limit (dB)			1.9	

PASS	MAIN	SR	MAIN	SR
Worst Pair	3.6	3.6	4.5	3.6
RL (dB)	6.6	4.3	8.7	8.8
Freq. (MHz)	3.8	3.8	247.5	234.5
Limit (dB)	21.0	21.0	10.1	10.3

Compliant Network Standards:
10BASE-T 100BASE-TX 100BASE-T 2.5GBASE-T ATM-25 ATM-51 100VG-AnyLan TR-4 TR-16 Passive 100BASE-T4 5GBASE-T ATM-155 TR-16 Active



Electrical Characteristics

Frequency MHz	Return Loss Min (dB)	Attenuation Max (dB/100m)	Next (Min dB)
1 4 8	20.0	2.0	65.3
16	23.0	4.1	56.3
20	24.5	5.8	51.8
62.5	26.0	8.2	47.3
100	26.5	9.3	45.8
200	25.0	17.0	38.4
250	25.0	22.0	35.3
300	18.0	32.4	30.8
400	17.3	36.9	29.3
550	16.8	41.0	28.2
	15.9	48.5	26.3
	14.9	58.8	24.2

Frequency MHz	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	PSELFEXT Min (dB/100m)	Delay Max (ns/100m)
1 4 8	62.3	63.8	60.8	570.0
16	53.3	51.7	48.7	552.0
20	48.8	45.7	42.7	546.7
62.5	44.3	39.7	36.7	543.0
100	42.8	37.7	34.7	542.0
200	35.4	27.8	24.8	538.6
250	32.3	23.8	20.8	537.6
300	27.8	17.7	14.7	536.5
400	26.3	15.8	12.8	536.3
550	25.2	14.2	11.2	536.1
	23.3	11.7	8.7	535.8
	21.2	8.9	5.9	535.5

1.0-100.0MHz Impedance(ohms) 100 ± 15

1.0-100.0MHz Delay Skew(ns/100m) ≤ 45

Pair-to-Ground Capacitance
Unbalance (pF/100m) ≤ 3300

Max. Conductor DC Resistance
20°C (ohms/km) 72.2

Resistance Unbalance (%) ≤ 5

Mechanical Characteristics

Test Object	Jacket	PVC
Test Material	≥ 13.8	≥ 150
Before Tensile Strength (Mpa)	100x168	≥ 85% of
Aging Elongation (%)	unaged	≥ 50%
Aging Condition (°Cxhrs)	of unaged	No
After Tensile Strength (Mpa)	Crack	
Aging Elongation (%)		
Cold Bend (-20±2° Cx4hrs)		

Returns? No problem.
Guarantee? Of course

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