

Cat6 Plenum
Solid Conductor Cable

SKU:
ET-CAT6-P



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



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



RoHS Compliant



Exceeds EIA/TIA 568 C.2-1,
CSA, and ISO/IEC 11801
Specifications



Sequential Footage
Markings Every 2ft

Print Legend

CAT6 PLENUM UTP 4-PAIR
23AWG EIA/TIA-568-C.2-1
550MHz 1000FT

Technical Data

Operating Temp. Range	75°C/167°F
Max. Operating Voltage	300V
Bend Radius	2in/51mm

Insulation	HDPE
Average Thickness	0.235
Min Point Thickness	0.200
Conductor Insulation Dia. (±0.01mm)	0.95
Twisted Pair Dia. (±0.02mm)	2.02
Spline	PE-

Jacket	CMP - PVC	
Average Thickness	0.50	0.45
Min. Point Thickness	0.60	Yes
Overall Diameter (±0.1mm)	6.60	
Ripcord	Yes	

Conductor	Solid Conductor
Size	23AWG
Conductor Dia. (±0.005mm)	0.57
Conductor Material	Solid Copper



Solid Conductor

Twisted Pairs

Spline / Separator

Jacket
(CMP/PVC)

RipCord

Color of Pairs

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

Product Image



965 Highams Ct,
Woodbridge, VA 22191



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www.etekcables.com



Cable ID: ET-CAT6-P

Test Limit: TIA Cat6Perm.Link

Limits Version: V7.6

Date / Time: 12/04/2021 09:08:44 PM

Operator: LIXIAOHONG

Headroom 0.4 dB (NEXT 1,2-3,6)

Cable Type: Cat 6 U/UTP

NVP: 69.0%

Main: Versiv

S/N: 2034142

Software Version: V6.6 Build 2

Calibration Date: 12/23/2020

Adapter: DSX-8000 (DSX-PLA804)

S/N: 20475125

Test Summary: PASS

Remote: Versiv

S/N: 2035009

Software Version: V6.6 Build 2

Calibration Date: 12/23/2020

Adapter: DSX-8000R (DSX-PLA804)

S/N: 20485133

Length (ft), Limit 295	[Pair 7,8]	204
Prop. Delay (ns), Limit 498	[Pair 4,5]	311
Delay Skew (ns), Limit 44	[Pair 4,5]	10
Resistance (ohms)	[Pair 4,5]	23.29

Insertion Loss Margin (dB)	[Pair 4,5]	5.2
Frequency (MHz)	[Pair 4,5]	250.0
Limit (dB)	[Pair 4,5]	31.1

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3.6-7.8	1.2-3.6	1.2-4.5	1.2-3.6
NEXT (dB)	5.9	0.4*	6.1	1.8
Freq. (MHz)	123.0	37.0	209.5	249.0
Limit (dB)	40.4	48.8	36.6	35.4
Worst Pair	3.6	3.6	1.2	3.6
PS NEXT (dB)	6.4	2.3	7.6	3.3
Freq. (MHz)	123.0	37.3	249.0	249.5
Limit (dB)	37.8	46.3	32.7	32.7

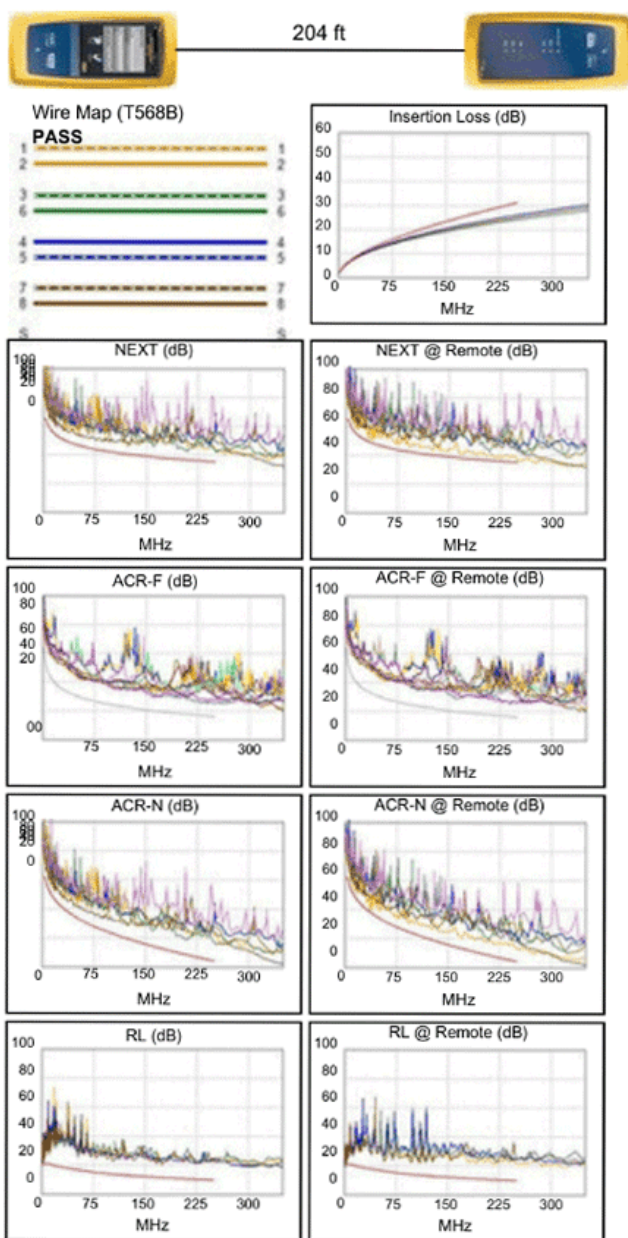
PASS	MAIN	SR	MAIN	SR
Worst Pair	1.2-4.5	1.2-4.5	1.2-4.5	1.2-4.5
ACR-F (dB)	8.7	8.3	9.1	8.8
Freq. (MHz)	232.0	162.5	249.0	239.5
Limit (dB)	16.9	20.0	16.3	16.6
Worst Pair	1.2	4.5	4.5	1.2
PS ACR-F (dB)	10.5	10.6	10.9	11.5
Freq. (MHz)	163.0	166.5	232.0	248.5
Limit (dB)	16.9	16.8	13.9	13.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	3.6-4.5	1.2-3.6	1.2-4.5	1.2-3.6
ACR-N (dB)	6.7	1.4	12.7	8.9
Freq. (MHz)	45.5	37.0	249.0	249.0
Limit (dB)	35.2	37.9	4.3	4.3
Worst Pair	3.6	3.6	1.2	1.2
PS ACR-N (dB)	6.8	3.3	13.6	9.8
Freq. (MHz)	11.4	37.3	249.0	250.0
Limit (dB)	48.7	35.4	1.7	1.6

PASS	MAIN	SR	MAIN	SR
Worst Pair	3.6	3.6	7.8	1.2
RL (dB)	5.3	2.7	9.1	11.2
Freq. (MHz)	3.8	3.8	175.0	250.0
Limit (dB)	21.0	21.0	11.6	10.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
ATM-25	ATM-51	ATM-155
100VG-AnyLan	TR-4	TR-16 Active
TR-16 Passive		



* Measurement is within the accuracy limits of the instrument.

LinkWare™ PC Version 10.7



ELECTRICAL & PHYSICAL PROPERTIES

PROPERTY	SPECIFICATION
Temperature Rating:	Installation: 0°C to 50°C Operation: -20°C to 60°C
Velocity of Propagation:	72%
Mutual Capacitance:	14 pF/ft Nominal
Capacitance Unbalance:	330 pF/ft maximum
Maximum Conductor D.C.R.:	≤ 650Ω/1,000 ft
Maximum D.C.R. Unbalance:	3%
Maximum Delay Skew:	18 ns/100m
Characteristic Impedance:	100 ± 15% 100 ± 22% 100 ± 22%
Minimum bend radius:	4.0 in.
Insulation Colors:	Blue paired with White/Blue Orange paired with White/Orange Green paired with White/Green Brown paired with White/Brown

