

# CAT6 PLENUM 550MHz UL LISTED MADE IN USA

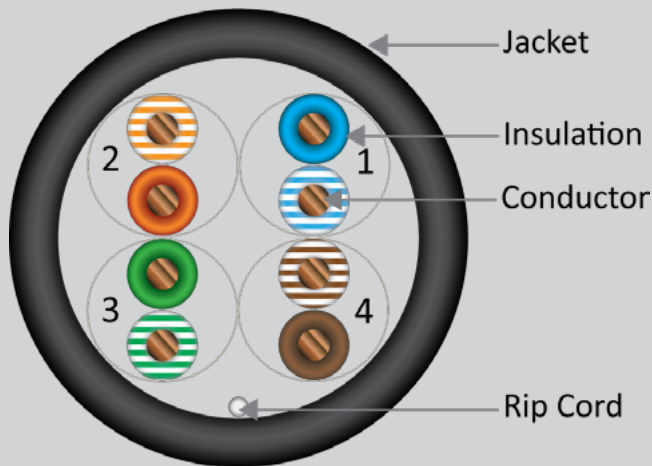


## DESCRIPTION

Category-6, CMP Rated, 23AWG, UTP, 8C Solid Bare Copper, 550MHz, 1000ft. **MADE IN USA**

## FEATURES

- High-Performance Category-6 Data Cable
- 550Mhz Bandwith for Data Applications
- Unshielded Twisted Pair (UTP) Cable
- 23AWG Solid Bare Copper Conductors
- Easily Identified Color-Striped Pairs
- CMP Rated (Plenum)
- UL Listed, ANSI/TIA 568-C.2
- 1000ft Pull Box
- **MADE IN USA**



## SKU: 167 Series

### Technical Data

NVP 72%

### Conductor

Diameter 23AWG Solid Bare Copper  
(.0226" / .573 mm nom.)

Number 8 (4 Pair)

### Insulation

Thickness FEP 0.008" (0.203mm)

Color of Pairs

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

### Jacket

Overall Cable Diameter FR-PVC 0.220" Nom. (5.5858 mm)  
Rip Cord Yes

Jacket Print:

VERTICAL CABLE E472493 c(UL)us CMP UTP FT6 75°C 23 AWG 4PR  
VERIFIED (UL) CAT6 ANSI/TIA 568-C.2 ISO-IEC 11801 --- TESTED TO  
550 MHz ROHS COMPLIANT MADE IN USA PO#/OP#/ LOT # ROHS  
COMPLIANT 0000 FT

### Electrical & Environmental Properties

Compliance:

c(ETL)us, TIA/EIA568-C.2

Safety Listing Standard UL 444

Operating Temperature -20°C to 75°C

Operating Voltage Rating (V RMS) 300

DC Resistance per Conductor @20°C (Ω/km) 93.8

Mutual Capacitance (nF/100m Max) 5.6

Resistance Unbalance Max (%) 5

Capacitance Unbalance Max (pF/100m) 330

Nominal Impedance (±15%)(Ω) 100

Weight (lb/1000ft) 30

Max Recommended Pull Tension (lb) 25

Min Bend Radius (in) 0.75

### Applications

ANSI X3T9.5 TP-PMD (FDDI), ATM PMD 155 Mbps IEEE 802.3 Fast Ethernet :10 Base-T, 100 Base-T4, 100 Base-X IEEE 802.5 :4/16 Mbps Token Ring, IEEE 802.12 :100 Base-VGRing, IEEE 802.12 :100 Base-VG

Jacket Colors Available: Blue, Green, Gray, Orange, Pink, Purple, Red, White, Yellow

**VERTICAL CABLE**

951.696.7772 California

800.749.2447 Florida

845.391.8318 New York



[www.verticalcable.com](http://www.verticalcable.com)

Rev. 12/2017

Specs subject to change without notice.

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## PERFORMANCE

### PERFORMANCE DATA

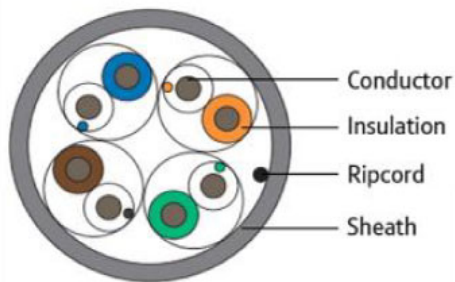
Frequency (MHz)	Insertion Loss (Attenuation) dB/100m max	NEXT (dB) min	PSNEXT (dB) min	ACRF (dB) min	PSACRF (dB) min	RL (dB) min	Skew (ns) max	Propagation Delay (ns/100m) max
0.772	1.8	76.0	74.0	70.0	67.0	19.4	45	518
1	2.0	74.3	72.3	67.8	64.8	20.0	45	498
4	3.8	65.3	63.3	55.8	52.8	23.0	45	484
8	5.3	60.8	58.8	49.7	46.7	24.5	45	477
10	6.0	59.3	57.3	47.8	44.8	25.0	45	475
16	7.6	56.2	54.2	43.7	40.7	25.0	45	473
20	8.5	54.8	52.8	41.8	38.8	25.0	45	471
25	9.5	53.3	51.3	39.8	36.8	24.3	45	471
31.25	10.7	51.9	49.9	37.9	34.9	23.6	45	470
62.5	15.4	47.4	45.4	31.9	28.9	21.5	45	468
100	19.8	44.4	42.3	27.8	24.8	20.1	45	467
200	29.0	39.8	37.8	21.8	18.8	18.0	45	494
250	32.8	38.3	36.3	19.8	16.8	17.3	45	563

### Mechanical Properties:

Max. Recommended Pull Tension  
Min. Bend Radius (Installed)  
RoHS Compliant  
Storage Temp Range  
Installation Temp Range  
Operating Temp Range

25 lbs.  
0.75" Min.  
Yes  
-20°C to +75°C  
0°C to +50°C  
-20°C to +75°C

The Jacket is sequentially foot marked.  
Standard Lengths are 1000ft.



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## Cable ID: CAT6 CMP UTP

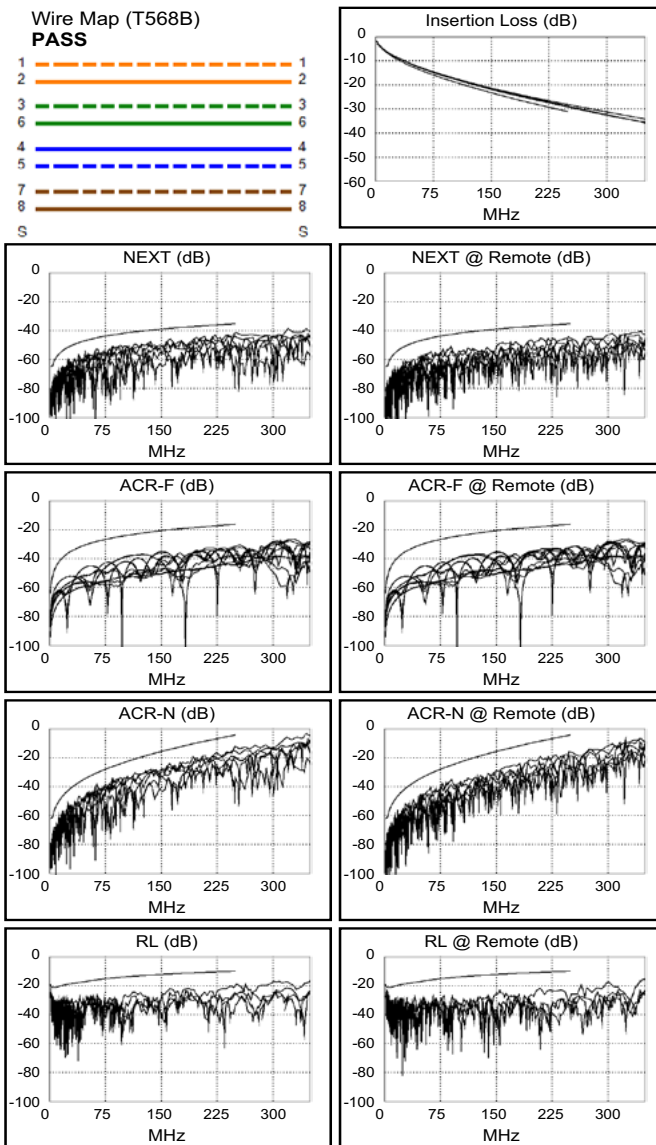
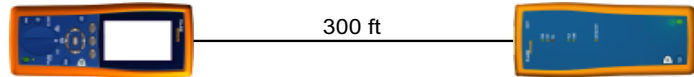
Date / Time: 11/15/2017 04:35:00 PM  
 Headroom **5.9 dB (NEXT 12-36)**  
 Test Limit: TIA Cat 6 Perm. Link  
 Cable Type: Cat 6 U/UTP  
 NVP: 72.0%

Operator: QC TECH  
 Software Version: 2.7700  
 Limits Version: 1.9400

## Test Summary: PASS

Model: DTX-1800  
 Main S/N: 1279007  
 Remote S/N: 1279008  
 Main Adapter: DTX-PLA002  
 Remote Adapter: DTX-PLA002

Length (ft), Limit 295	[Pair 78]	300
Prop. Delay (ns), Limit 498	[Pair 45]	451
Delay Skew (ns), Limit 44	[Pair 45]	27
Resistance (ohms)	[Pair 45]	13.7
Insertion Loss Margin (dB)	[Pair 36]	1.8
Frequency (MHz)	[Pair 36]	250.0
Limit (dB)	[Pair 36]	31.1



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	12-45	12-36	12-45
<b>NEXT (dB)</b>	5.9	8.3	5.9	8.8
Freq. (MHz)	249.0	89.3	249.0	247.0
Limit (dB)	35.4	42.6	35.4	35.4
Worst Pair	36	45	36	12
<b>PS NEXT (dB)</b>	7.0	8.8	7.2	9.5
Freq. (MHz)	206.5	89.3	249.0	247.0
Limit (dB)	34.1	40.1	32.7	32.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	12-36	12-45	12-45
<b>ACR-F (dB)</b>	13.7	13.6	15.2	15.9
Freq. (MHz)	5.5	5.5	249.5	249.5
Limit (dB)	49.4	49.4	16.2	16.2
Worst Pair	36	36	45	45
<b>PS ACR-F (dB)</b>	14.9	14.9	15.3	16.2
Freq. (MHz)	1.4	1.5	243.5	245.0
Limit (dB)	58.4	57.7	13.5	13.4

N/A	MAIN	SR	MAIN	SR
Worst Pair	36-78	12-45	12-36	12-45
<b>ACR-N (dB)</b>	7.6	9.6	7.8	11.1
Freq. (MHz)	63.8	62.0	249.0	247.0
Limit (dB)	30.5	30.9	4.3	4.5
Worst Pair	36	45	36	12
<b>PS ACR-N (dB)</b>	8.5	10.1	9.0	12.4
Freq. (MHz)	64.0	48.3	249.0	247.0
Limit (dB)	27.9	32.0	1.7	1.9

PASS	MAIN	SR	MAIN	SR
Worst Pair	45	45	45	45
<b>RL (dB)</b>	7.2	5.4	9.9	11.0
Freq. (MHz)	3.6	3.6	250.0	209.5
Limit (dB)	21.0	21.0	10.0	10.8

Compliant Network Standards:  
 10BASE-T      100BASE-TX      100BASE-T4  
 1000BASE-T      ATM-25      ATM-51  
 ATM-155      100VG-AnyLan  
 TR-16 Active      TR-16 Passive

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