

# CAT6 PLENUM 550MHz MADE IN USA

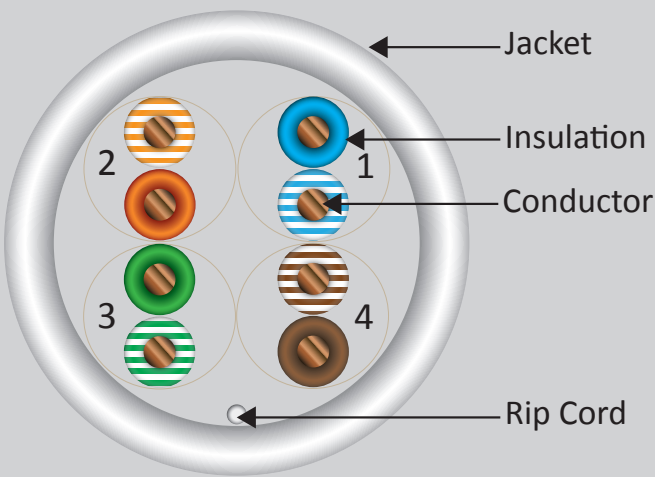


## DESCRIPTION

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

## 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)
- ETL Listed, TIA/EIA568-C.2
- 1000ft Pull Box
- **MADE IN USA**



## SKU: 166 Series

### Technical Data

NVP 72%

### Conductor

Diameter (mm) 0.573  
Number 8

### Insulation

Thickness (mm)  
Color of Pairs

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

### FEP

0.203

### Jacket

Outer Diameter (mm)  
Rip Cord

### FR-PVC

5.334  
Yes

### Jacket Print:

VERTICAL CABLE 4010346 CAT6 CMP 23 AWG 4PR UTP 75C TESTED TO 550 MHz ETL VERIFIED TO TIA-568C.2 MADE IN USA [PO#] ROHS COMPLIANT XXXXFT

### 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-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. 5/2019

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## PERFORMANCE

Frequency MHz	Return Loss dB	Attenuation dB/100m	NEXT dB	PSNEXT dB	FEXT dB/100m	PSELFEXT dB/100m
1.00	21.00	2.0	74.30	72.30	67.8	64.8
4.00	23.4	3.8	65.27	63.27	55.7	52.7
8.00	24.6	5.4	60.75	58.75	49.7	46.7
10.00	25.0	6.0	59.30	57.30	47.8	44.8
16.00	25.0	7.7	56.24	54.24	43.7	40.7
20.00	25.0	8.6	54.78	52.78	41.7	38.7
25.00	24.3	9.6	53.33	51.33	38.8	36.8
31.25	23.6	10.8	51.88	49.88	37.9	34.9
62.50	21.5	15.7	47.36	45.36	31.8	28.8
100.00	20.1	20.2	44.30	42.30	27.8	24.8
200.00	18.0	29.8	39.78	37.78	21.7	18.7
250.00	17.3	33.8	38.33	36.33	19.8	16.8
300.00	16.8	34.9	37.10	35.10	18.3	15.3
350.00	16.3	36.3	36.10	34.10	16.9	13.9
400.00	15.9	39.6	35.30	33.30	15.8	12.8
500.00	15.2	45.4	33.30	31.80	13.8	10.8
550.00	14.9	48.3	33.20	31.20	13.0	10.0

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## Cable ID: CAT6 166 BL P11287 02

Date / Time: 05/29/2019 01:58:27 PM

Headroom 4.0 dB (NEXT 36-45)

Test Limit: TIA Cat 6 Perm. Link

Cable Type: 166-C6 UTP CMP

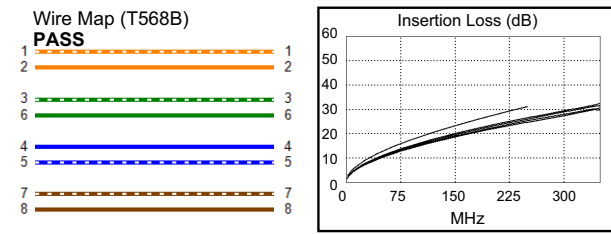
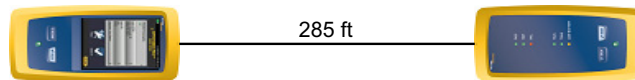
NVP: 72.0%

Operator: VERTICAL TECH  
Software Version: V6.1 Build 3  
Limits Version: V7.1  
Calibration Start Date:  
Main (Module): 01/26/2017  
Remote (Module): 01/26/2017

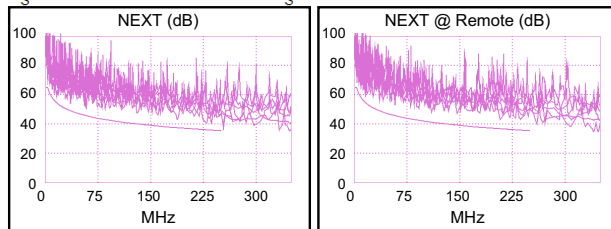
## Test Summary: PASS

Model: DSX-5000  
Main S/N: 3676207  
Remote S/N: 3687009  
Main Adapter: DSX-PLA004  
Remote Adapter: DSX-PLA004

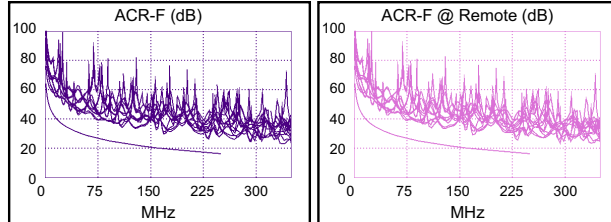
Length (ft), Limit 295	[Pair 12]	285
Prop. Delay (ns), Limit 498	[Pair 45]	432
Delay Skew (ns), Limit 44	[Pair 45]	30
Resistance (ohms)	[Pair 45]	12.82
Insertion Loss Margin (dB)	[Pair 45]	4.5
Frequency (MHz)	[Pair 45]	250.0
Limit (dB)	[Pair 45]	31.1



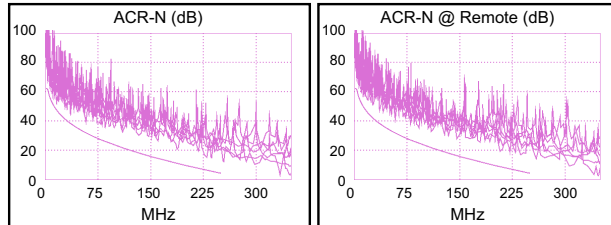
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	36-45	36-45
<b>NEXT (dB)</b>	4.0	5.0	4.1	5.0
Freq. (MHz)	16.5	209.0	229.5	209.0
Limit (dB)	54.4	36.6	35.9	36.6
Worst Pair	36	36	36	36
<b>PS NEXT (dB)</b>	5.6	6.7	5.8	6.7
Freq. (MHz)	229.5	212.0	236.5	212.0
Limit (dB)	33.3	33.9	33.1	33.9



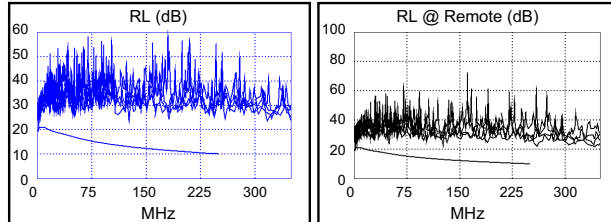
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	78-12	12-78	78-12	12-78
<b>ACR-F (dB)</b>	9.1	8.2	9.1	8.2
Freq. (MHz)	232.0	231.5	232.0	231.5
Limit (dB)	16.9	16.9	16.9	16.9
Worst Pair	12	78	12	78
<b>PS ACR-F (dB)</b>	11.1	11.0	11.1	11.0
Freq. (MHz)	232.0	231.5	232.0	231.5
Limit (dB)	13.9	13.9	13.9	13.9



	Worst Case Margin		Worst Case Value	
<b>N/A</b>	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	36-45	36-45
<b>ACR-N (dB)</b>	5.0	7.1	8.8	11.3
Freq. (MHz)	16.5	9.6	236.5	237.0
Limit (dB)	47.2	52.7	5.6	5.6
Worst Pair	36	36	36	36
<b>PS ACR-N (dB)</b>	7.0	8.5	10.5	12.6
Freq. (MHz)	16.5	9.8	236.5	240.0
Limit (dB)	44.9	50.2	3.0	2.6



	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	12	12	45	45
<b>RL (dB)</b>	5.5	5.9	10.6	9.8
Freq. (MHz)	5.3	7.8	126.5	126.5
Limit (dB)	21.0	21.0	13.0	13.0



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

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