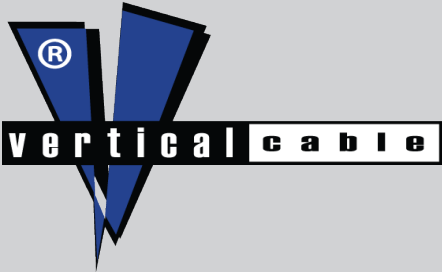


# CAT6 HIGH GRADE 550MHz UTP PLENUM (SPLINE-LESS) TAA COMPLIANT

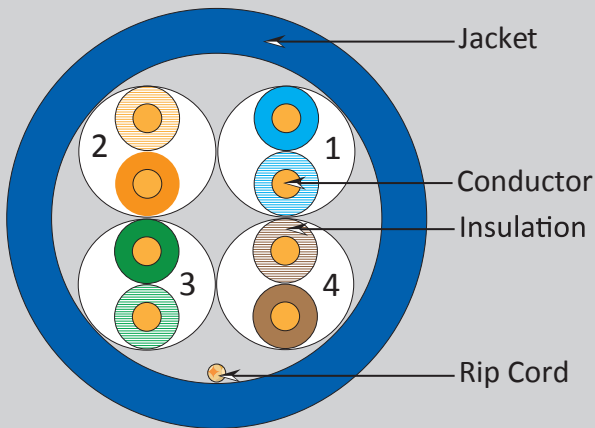


## DESCRIPTION

Category-6, 23AWG, UTP, Solid Bare Copper, Plenum CMP Rated.

## FEATURES

- \* High-Performance Data Cable
- \* Suitable for High-Speed Data Applications, Gigabit Ethernet, Fast Ethernet
- \* Easily Identified Color-Striped Pairs
- \* Unshielded Twisted Pair (UTP) Cable
- \* 23AWG Solid Bare Copper Conductors
- \* Exceeds ANSI/TIA 568-C.2
- \* Excellent Attenuation and Crosstalk
- \* UL listed, 1000ft Pull Box
- \* TAA Compliant



## SKU: 066 SERIES

### Construction

<b>Conductor</b>	<b>Solid Bare Copper</b>
AWG	23
<b>Insulation</b>	<b>FEP</b>
Thickness	0.22mm
<b>Jacket</b>	<b>FR-PVC</b>
<b>Outer Diameter</b>	<b>5.3mm</b>
<b>Separator (Divider)</b>	<b>No (Spline-less)</b>
<b>Rip Cord</b>	Yes

### Color of Pairs

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

### Electrical Characteristics

ANSI/TIA 568-C.2  
Impedance: 100Ω±15%

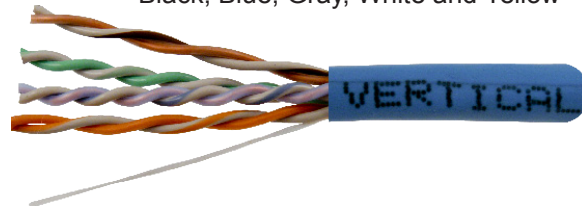
### Standards

ANSI/TIA-568-C.2 Category 6  
with the applicable electrical transmission characteristics

### Applications

High Speed Horizontal Cabling  
100 Mbps TPDDI, 1000 Base T, 622 Mbps ATM  
IEEE802.3/IEEE802.5, Gigabit Ethernet

Jacket color available in  
Black, Blue, Gray, White and Yellow



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Rev. 05/2013

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# CAT6 HIGH GRADE 550MHz UTP PLENUM (SPLINE-LESS) TAA COMPLIANT

## PERFORMANCE

### Electrical Characteristics:

Conductor Resistance	:93.8 $\Omega$ /km 20° C Max
Mutual Capacitance	:5.6 nF/100m Max
Resistance Unbalance	:5% Max
Capacitance Unbalance	:330 pF/100m Max

Frequency (MHz)	Attenuation Min. dB/100m	Return Loss Min. dB/100m	NEXT Min. dB/100m
1	2.0	21.0	74.3
4	3.8	23.4	65.3
8	5.4	24.6	60.8
10	6.0	25.0	59.3
16	7.7	25.0	56.3
20	8.6	25.0	54.8
25	9.6	24.3	53.3
31.25	10.8	23.6	51.9
62.5	15.7	21.5	47.4
100	20.2	20.1	44.3
200	29.8	18.0	39.8
250	33.8	17.3	38.3
300	34.9	16.8	37.1
350	36.3	16.3	36.1
400	39.6	15.9	35.3
500	45.4	15.2	33.8
550	48.3	14.9	33.2

Frequency (MHz)	P.S NEXT Min. dB/100m	FEXT Min. dB/100m	P.S ELNEXT Min. dB/100m
1	72.3	67.8	64.8
4	63.3	55.7	52.7
8	58.8	49.7	46.7
10	57.3	47.8	44.8
16	54.3	43.7	40.7
20	52.8	41.7	38.7
25	51.3	39.8	36.8
31.25	49.9	37.9	34.9
62.5	45.4	31.8	28.8
100	42.3	27.8	24.8
200	37.0	21.7	18.7
250	36.3	19.8	16.8
300	35.1	18.3	15.3
350	34.1	16.9	13.9
400	33.3	15.8	12.8
500	31.8	13.8	10.8
550	31.2	13.0	10.0

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## Cable ID: CAT6 NS 01

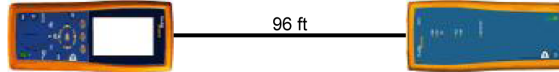
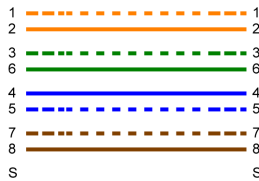
## Test Summary: PASS

Date / Time: 04/20/2012 08:45:19am  
 Headroom: 3.7 dB (NEXT 36-45)  
 Test Limit: 10GBASE-T  
 Cable Type: Cat 6 UTP

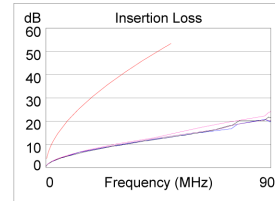
Operator: Your Name  
 Software Version: 2.5200  
 Limits Version: 1.7000  
 NVP: 69.0%

Model: DTX-1800  
 Main S/N: 1279007  
 Remote S/N: 1279008  
 Main Adapter: DTX-CHA002  
 Remote Adapter: DTX-CHA002

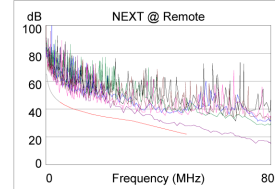
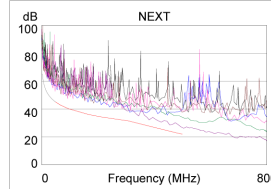
### Wire Map (T568B) PASS



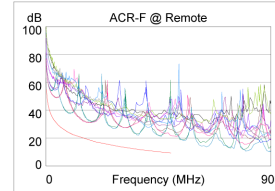
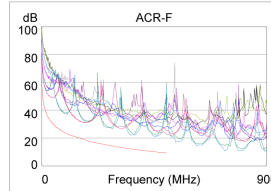
Length (ft)	[Pair 45]	96
Prop. Delay (ns), Limit 555		152
Delay Skew (ns), Limit 50		11
Resistance (ohms)	[Pair 36]	5.2
Insertion Loss Margin (dB)	[Pair 36]	38.7
Frequency (MHz)	[Pair 36]	498.0
Limit (dB)	[Pair 36]	53.3



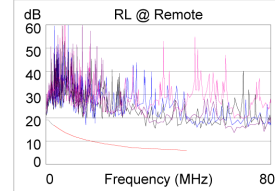
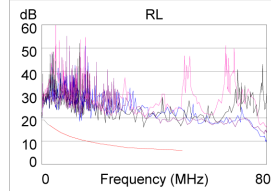
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	36-45	36-45	36-45	36-45
<b>NEXT (dB)</b>	3.7	4.0	4.4	4.6
Freq. (MHz)	386.0	371.0	499.0	495.0
Limit (dB)	27.6	28.5	22.0	22.2
Worst Pair	36	45	36	36
<b>PS NEXT (dB)</b>	4.9	5.0	5.0	5.8
Freq. (MHz)	350.0	426.0	499.0	495.0
Limit (dB)	26.9	23.3	20.5	20.6



	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	45-36	45-36	45-36	45-36
<b>ACR-F (dB)</b>	9.6	10.1	10.5	10.5
Freq. (MHz)	356.0	370.0	455.0	455.0
Limit (dB)	12.2	11.9	10.1	10.1
Worst Pair	36	45	36	36
<b>PS ACR-F (dB)</b>	11.7	12.1	11.7	12.5
Freq. (MHz)	455.0	356.0	455.0	455.0
Limit (dB)	7.1	9.2	7.1	7.1



	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	12	12	45	45
<b>RL (dB)</b>	7.7	6.2	9.6	9.4
Freq. (MHz)	135.0	142.5	363.0	389.0
Limit (dB)	10.7	10.5	6.4	6.1



Compliant Network Standards:  
 10BASE-T      100BASE-TX      100BASE-T4  
 1000BASE-T      10GBASE-T      ATM-25  
 ATM-51      ATM-155      100VG-AnyLan  
 TR-4      TR-16 Active      TR-16 Passive

Project: DEFAULT  
 Site: Client Name

LinkWare Version 6.2



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