

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
- CMP (Plenum) Rated; FT6
- 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, RoHS Compliant, TAA Compliant
- 1000ft Pull Box

SKU: 066 SERIES

Technical Data

NVP 69%

Construction

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

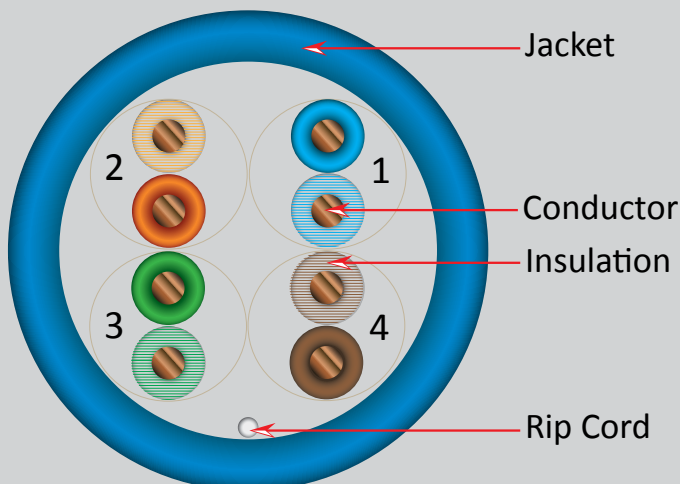
Standard ANSI/TIA 568-C.2
Impedance $100\Omega \pm 15\%$

Standards

Flame Test 6 (FT6 Rating), ANSI/NFPA Standard 262
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, Green, Gray, Red, White, Yellow, Orange, Purple, Pink

VERTICAL CABLE

951.696.7772 California
800.749.2447 Florida
845.391.8318 New York



www.verticalcable.com

Rev. 09/2016

Specs subject to change without notice.
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PERFORMANCE

Electrical Characteristics:

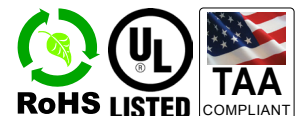
Conductor Resistance	93.8 Ω /km 20° C Max
Mutual Capacitance	5.6 nF/100m Max
Resistance Unbalance	5% Max
Capacitance Unbalance	330 pF/100m Max

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: 066-10G TEST

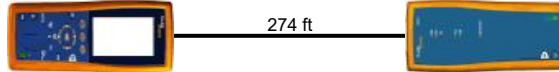
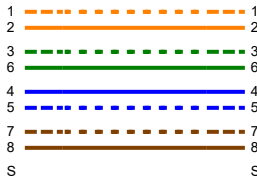
Test Summary: PASS

Date / Time: 06/14/2013 12:30:31pm
 Headroom: 3.5 dB (NEXT 12-45)
 Test Limit: 10GBASE-T
 Cable Type: Cat 6 UTP

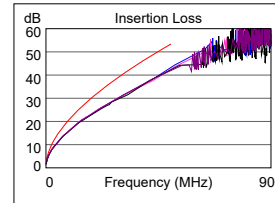
Operator: Your Name
 Software Version: 2.5200
 Limits Version: 1.7000
 NVP: 69.0%

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

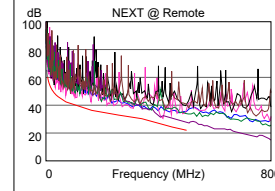
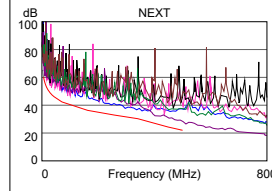
Wire Map (T568B) PASS



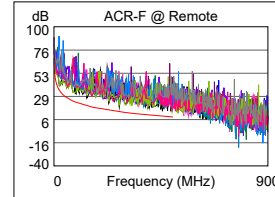
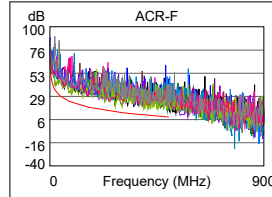
Length (ft)	[Pair 45]	274
Prop. Delay (ns), Limit 555		437
Delay Skew (ns), Limit 50		34
Resistance (ohms)	[Pair 36]	18.0
Insertion Loss Margin (dB)	[Pair 36]	10.6
Frequency (MHz)	[Pair 36]	500.0
Limit (dB)	[Pair 36]	53.4



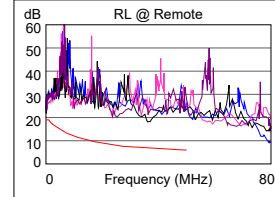
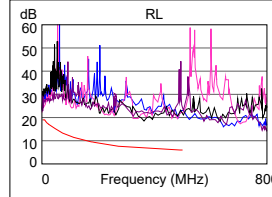
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	12-45	12-45	36-45	36-45
NEXT (dB)	4.6	3.5	6.0	5.5
Freq. (MHz)	29.5	46.5	484.0	493.0
Limit (dB)	48.8	45.5	22.7	22.3
Worst Pair	12	45	36	36
PS NEXT (dB)	5.0	3.9	6.5	5.5
Freq. (MHz)	29.4	402.0	484.0	491.0
Limit (dB)	46.2	24.4	21.0	20.8



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	12-78	12-78	78-12	12-78
ACR-F (dB)	4.5	4.1	5.5	4.1
Freq. (MHz)	22.9	495.0	495.0	495.0
Limit (dB)	36.1	9.4	9.4	9.4
Worst Pair	12	78	12	36
PS ACR-F (dB)	6.6	6.9	6.6	7.6
Freq. (MHz)	498.0	304.0	498.0	494.0
Limit (dB)	6.3	10.6	6.3	6.4



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	36	36	45	45
RL (dB)	3.8	5.1	11.4	11.3
Freq. (MHz)	3.9	3.9	390.0	361.0
Limit (dB)	19.0	19.0	6.1	6.4



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

LinkWare Version 6.1

Project: DEFAULT
 Site: Client Name

UNTITLED.flw



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