

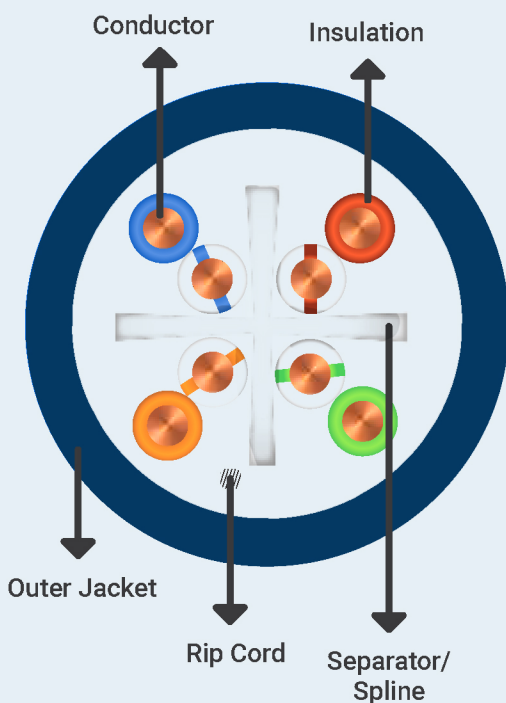
CAT6 PLENUM 1000FT UTP CABLE (Bare Copper)

DESCRIPTION

- Category-6, 23AWG, UTP.
- 8C BC, 550MHz.
- Plenum Rated, 1000ft.

FEATURES

- High-Performance Category-6 Data Cable.
- 23AWG BC Conductors.
- 550MHz Bandwidth for Data Applications.
- EIA/TIA 568-C.2, RoHs Compliant, FCC, CE, CSA, ISO/IES.
- 1000ft Pull box.



Specification

Technical Data

Product Standard Certification CMP Rated

Conductor

Size 23AWG
Material 100% Pure Copper

Construction

Divider (Pair Separator) Yes
Ripcord Yes

Outer Jacket

Material FR-PVC
Outer Diameter $6.8 \pm 0.3\text{mm}$ ($0.268'' \pm 0.012''$)

Conductor Insulation

Material FEP

Color of Pairs

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

Mechanical Characteristics

Rated Temperature (°C) 0°C to 60°C
Voltage 30V
Capacitance $5.6\text{nF}/100\text{m}$ Nominal
Velocity of Propagation (VPN) 65%
Max. Conductor D.C.R. $9.38\Omega/100\text{m}$ Nominal
Max. D.C.R. Unbalance 5%

Characteristic Impedance

1 MHz - 100 MHz $100 \pm 15\%$
101 MHz - 250 MHz $100 \pm 22\%$
251 MHz - 500 MHz $100 \pm 25\%$

Colors Available



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Performance

Frequency (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	FEXT (dB/100m)	PSELFEXT (dB/100m)
1	21	2	74.3	72.3	67.8	64.8
4	23.4	3.8	65.27	63.27	55.7	52.7
8	24.6	5.4	60.75	58.75	49.7	46.7
10	25	6	59.3	57.3	47.8	44.8
16	25	7.7	56.24	54.24	43.7	40.7
20	25	8.6	54.78	52.78	41.7	38.7
25	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
62.5	21.5	15.7	47.36	45.36	31.8	28.8
100	20.1	20.2	44.3	42.3	27.8	24.8
200	18	29.8	39.78	37.78	21.7	18.7
250	17.3	33.8	38.33	36.33	19.8	16.8
300	16.8	34.9	37.1	35.1	18.3	15.3
350	16.3	36.3	36.1	34.1	16.9	13.9
400	15.9	39.6	35.3	33.3	15.8	12.8
500	15.2	45.4	33.3	31.8	13.8	10.8
550	14.9	48.3	33.2	31.2	13	10

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Fluke Test



Cable ID: CAT6-UTP-LINK

Date / Time: 12/04/2018 11:13:00am
Headroom: 5.5 dB (NEXT 36-45)
Test Limit: TIA Cat 6 Perm. Link
Cable Type: Cat 6 U/UTP

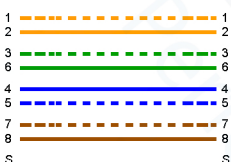
Operator: NYC FIELDING
Software Version: 2.7800
Limits Version: 1.9500
NVP: 72.0%

Test Summary: PASS

Model: DTX-1800
Main S/N: 9463009
Remote S/N: 9463010
Main Adapter: DTX-PLA002
Remote Adapter: DTX-PLA002

Wire Map (T568B)

PASS



294 ft

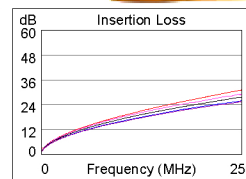


Length (ft), Limit 295
Prop. Delay (ns), Limit 498
Delay Skew (ns), Limit 44
Resistance (ohms)

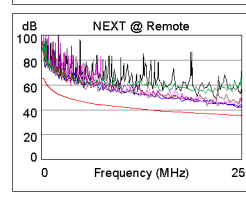
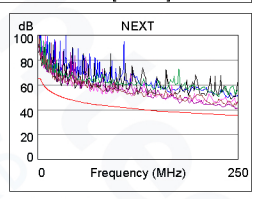
[Pair 78] 294
455
40
13.3

Insertion Loss Margin (dB)
Frequency (MHz)
Limit (dB)

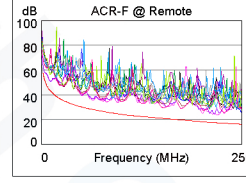
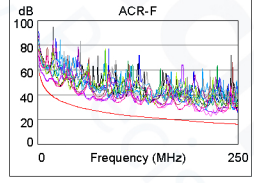
[Pair 36] 2.0
[Pair 36] 250.0
[Pair 36] 31.1



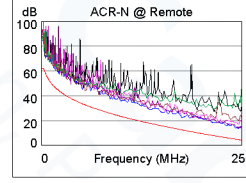
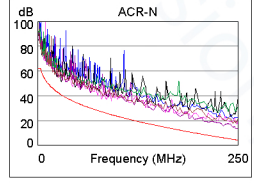
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	36-45	36-45	36-45	36-45
NEXT (dB)	5.5	6.1	5.5	6.1
Freq. (MHz)	247.0	244.5	247.0	244.5
Limit (dB)	35.4	35.5	35.4	35.5
Worst Pair	45	45	45	45
PS NEXT (dB)	5.5	6.0	5.5	6.0
Freq. (MHz)	247.0	246.5	247.0	246.5
Limit (dB)	32.8	32.8	32.8	32.8



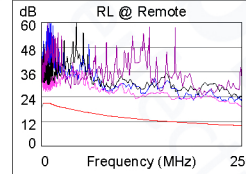
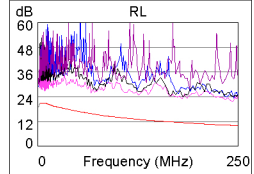
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	12-45	12-45	12-45	12-45
ACR-F (dB)	4.7	5.5	4.7	5.5
Freq. (MHz)	217.0	218.5	217.0	218.5
Limit (dB)	17.5	17.4	17.5	17.4
Worst Pair	45	12	45	12
PS ACR-F (dB)	7.4	7.3	7.4	7.3
Freq. (MHz)	217.0	217.0	217.0	217.0
Limit (dB)	14.5	14.5	14.5	14.5



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
N/A				
Worst Pair	36-45	12-36	36-45	12-36
ACR-N (dB)	8.9	9.0	8.9	9.0
Freq. (MHz)	247.0	246.0	247.0	246.0
Limit (dB)	4.5	4.6	4.5	4.6
Worst Pair	45	36	45	36
PS ACR-N (dB)	8.9	8.1	8.9	8.1
Freq. (MHz)	247.0	246.5	247.0	246.5
Limit (dB)	1.9	2.0	1.9	2.0



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	36	36	36	36
RL (dB)	5.3	5.4	11.3	9.3
Freq. (MHz)	8.0	4.9	242.5	249.5
Limit (dB)	21.0	21.0	10.2	10.0



Compliant Network Standards:

10BASE-T
1000BASE-T
ATM-155
TR-16 Active

100BASE-TX
ATM-25
100VG-AnyLan
TR-16 Passive

100BASE-T4
ATM-51
TR-4

LinkWare Version 6.2

