

Cat6A Plenum Solid Copper

U/UTP Cable | Solid Copper | 750MHz

SKU: ET-CAT6A-PC

23AWG • 4 Twisted Pairs • CMP • U/UTP 750MHz



Packaging Available
1000ft Pull Box

Jacket Colors



Key Features



Bandwidth tested up to 750 MHz



Suitable for 1 and 10-Gigabit Ethernet



Easily Identified Color Stripped Pairs



Sequential Footage Markings Every 2ft



RoHS compliant



Exceeds ANSI/TIA 568.2-D, CSA, and ISO/IEC 11801 specifications



Supports PoE, PoE+, and PoE++ up to 60W and 300V DC

Print Legend

CAT6A 750MHz CMP PLENUM UTP 4-PAIR
23AWG EIA/TIA-568-C.2-1
0002FT-1000FT

Technical Data

Operating Temp. Range 75°C/167°F

Max. Operating Voltage 300V

Bend Radius 2in/5mm

Conductor

Conductor Type	Solid Conductor
Size	23AWG
Conductor Dia. (±0.005mm)	0.57
Conductor Material	Solid Copper

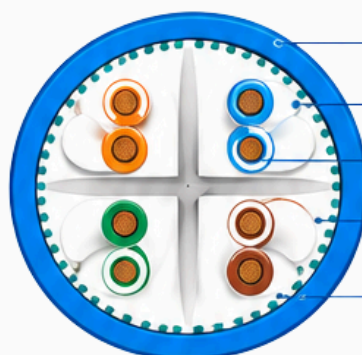
Jacket

CMP - PVC

Average Thickness	0.55 mm
Min. Point Thickness	0.50 Yes
Overall Diameter (±0.1mm)	7.4
Ripcord	Yes

Pair/Assembly

Twisted Pairs	4
Pair Colors	Blue - Orange / Green / Brown



Jacket

Insulation

Conductor

Separator/Spline

Rip Cord

Color of Pairs

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



965 Highams Ct,
Woodbridge, VA 22191



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Cable ID: ET-CAT6A-PC

Test Limit: TIA Cat 6 Perm. Link

Limits Version: V7.6 Date / Time: 10/10/2021

12:53:35 PM Operator: CHENGXIAOLAN

Headroom 3.9 dB (NEXT 3,6-4,5) Cable Type:

Cat 6A U/UTP NVP: 68.2%

Main: Versiv

S/N: 2034142

Software Version: V6.6 Build 2

Calibration Date: 12/23/2020

Adapter: DSX-8000 (DSX-PLA804)

S/N: 20475125

Remote: Versiv

S/N: 2035009

Software Version: V6.6 Build 2

Calibration Date: 12/23/2020

Adapter: DSX-8000R (DSX-PLA804)

S/N: 20485133

Test Summary: **PASS**

Length (ft), Limit 295	[Pair 4,5]	315
Prop. Delay (ns), Limit 498	[Pair 7,8]	487
Delay Skew (ns), Limit 44	[Pair 7,8]	18
ResiStance (ohms)	[Pair 7,8]	14.24
Insertion Loss Margin (dB)	[Pair 7,8]	3.1
Frequency (MHz)	[Pair 7,8]	250.0
Limit (dB)	[Pair 7,8]	31.1

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-4,5	3,6-4,5
NEXT (dB)	4.8	3.9	5.2	6.9
Freq. (MHz)	12.6	91.5	233.5	233.5
Limit (dB)	56.2	42.5	35.8	35.8
Worst Pair	6.2	5.6	7.2	3.6
PS NEXT (dB)	225.0	91.5	6.3	7.4
Freq. (MHz)	33.5	39.9	233.5	234.0
Limit (dB)			33.2	33.2

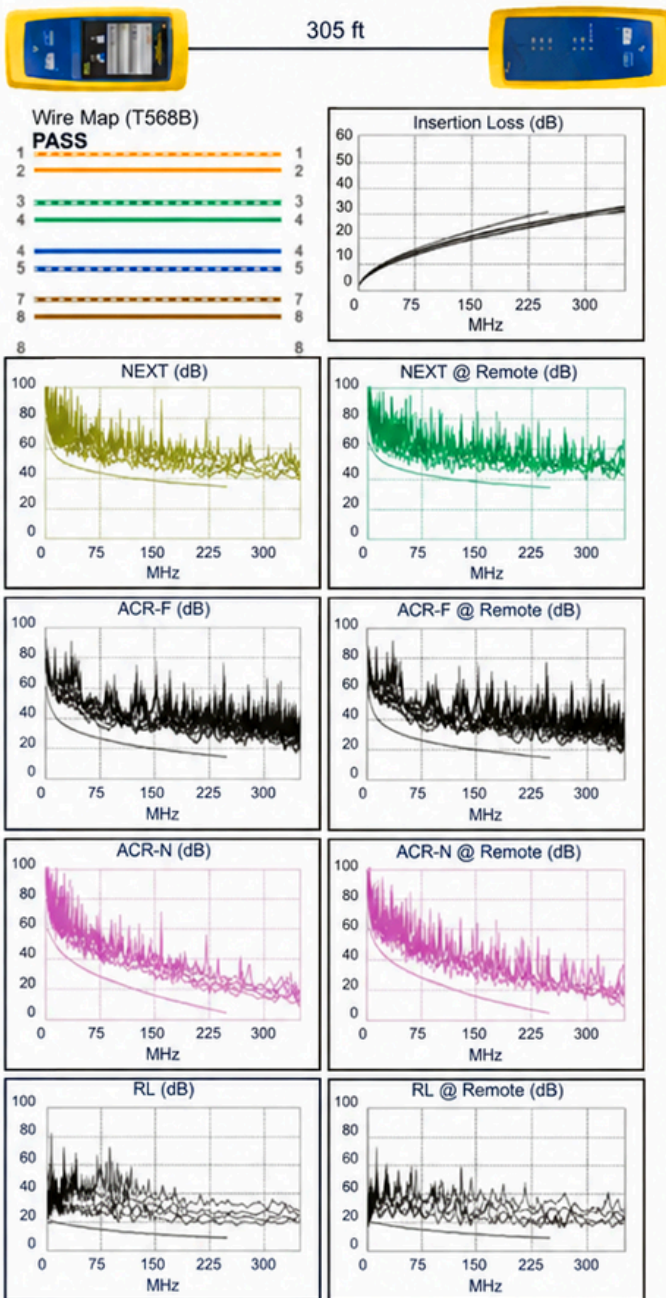
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	6.4	6.5	6.4	6.5
Freq. (MHz)	206.5	206.5	206.5	206.5
Limit (dB)	17.9	17.9	17.9	17.9
Worst Pair	3.6	3.6	3.6	3.6
PS ACR-F (dB)	8.4	8.5	8.4	8.5
Freq. (MHz)	206.5	206.5	206.5	206.5
Limit (dB)	14.9	14.9	14.9	14.9

N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-4,5	3,6-4,5
ACR-N (dB)	5.5	4.7	10.2	11.9
Freq. (MHz)	12.6	12.8	233.5	233.5
Limit (dB)	50.0	49.9	5.9	5.9
Worst Pair	3.6	3.6	1.2	3.6
PS ACR-N (dB)	7.4	6.9	9.8	12.3
Freq. (MHz)	12.6	12.8	233.5	234.0
Limit (dB)	47.6	47.5	3.3	3.2

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	4,5	4,5
RL (dB)	6.6	3.9	7.9	7.0
Freq. (MHz)	21.0	21.0	238.0	233.5
Limit (dB)	21.0	21.0	10.2	10.3

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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Electrical Characteristics

Frequency MHz	Return Loss Min (dB)	Attenuation Max (dB/100m)	Next Min (dB)
1 4 8	20.0	2.1	74.3
16	23.0	3.8	65.3
20	24.5	5.3	60.8
63.5	25.0	7.5	56.2
100	25.0	8.4	54.8
200	21.5	15.0	47.4
250	20.1	19.1	44.3
300	18.0	27.6	39.8
500	17.3	31.1	38.3
750	16.8	34.3	37.1
	15.2	45.3	33.8
	14.0	62.3	31.1

Frequency MHz	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	PSELFEXT Min (dB/100m)	Delay Max (ns/100m)
1 4 8	72.3	67.8	64.8	570.0
16	63.3	55.8	52.8	552.0
20	58.8	49.7	46.7	546.7
62.5	54.2	43.7	40.7	543.0
100	52.8	41.8	38.8	542.0
200	45.4	31.9	28.9	538.6
250	42.3	27.8	24.8	537.6
300	37.8	21.8	18.8	536.5
500	36.3	19.8	16.8	536.3
750	35.1	18.3	15.3	536.1
	31.8	13.8	10.8	535.6
	29.1	10.3	7.3	535.3

Compliant Network Standards:
10BASE-T
1000BASE-T
ATM-25
100VG-AnyLan
TR-16 Passive

1000BASE-T
2.5GBASE-T
ATM-51
TR-4

100BASE-T4
5GBASE-T
ATM-155
TR-16 Active

1.0–100.0MHz Impedance(ohms)	100 ± 15
1.0–100.0MHz Delay Skew(ns/100m)	≤=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	≤=3300
Max. Conductor DC Resistance 20oC (ohms/km)	72.2
Resistance Unbalance(%)	≤=5

Mechanical Characteristics

Test Object	Jacket
Test Material	PVC
Before Tensile Strength (Mpa)	≥=13.8
Aging Elongation (%)	≥=150
Aging Condition (°Cxhrs)	100x168
After Tensile Strength (Mpa)	≥=85% of unaged
Aging Elongation (%)	≥=50% of unaged
Cold Bend (-20+2°Cx4hrs)	No Crack

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