

Cat6A UTP Plenum (Green)

SKU: TS-PBC/6A-GR

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



Key Features

- Bandwidth tested up to 750 MHz
- Suitable for 1 Gigabit and 10 Gigabit Ethernet up to 328 ft
- In compliance with ANSI/TIA 568.2-D
- RoHS Compliant
- Easily identified color striped pairs
- Supports Power over Ethernet: PoE/PoE+/PoE++ (IEEE 802.3af/at/bt) 4PPoE up to 90W
- Sequential footage markings every 2ft

Technical Data

Insulation	HDPE
Average Thickness (mm)	0.25
Min Point Thickness (mm)	0.23
Conductor Insulation Dia. (±0.02mm)	1.08
Twisted Pair Dia. (±0.02mm)	2.16
Ripcord	Kevlar
Spline	PE
Polyethylene Tape	Not Present
Shielding	U/UTP

Conductor	Solid Bare Copper
Size	23AWG
Conductor Dia. (±0.05mm)	0.58

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

Cable Jacket	CMP-Plenum
Average Thickness (mm)	0.55
Min. Point Thickness (mm)	0.50
Outer Diameter (±0.2mm)	6.20

Standards Reference



Print Legend

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

Electrical Characteristics

PoE Certification	PoE/PoE+/PoE++ 4PPoE
Maximum PoE Wattage	90W
PoE Application Compatibility	802.3af/at/bt Type 4
TIA 568-2.D Cat6A Permanent Link +PoE	CERTIFIED
Maximum Application Speed @ 295ft	10GBASE-T
Nominal Velocity of Propagation (NVP)	70.7
Maximum Operating Voltage	300V
1.0 - 750MHz Impedance (Ω)	100 \pm 15
Maximum Operating Frequency	750MHz
1.0 - 750MHz Delay Skew (ns/100m)	\leq 45
Pair-to-Ground Capacitance Unbalance (pF/km)	\leq 3300
Max. Conductor DC Resistance 20°C (Ω /km)	72.2



Mechanical & Environmental Operating Parameters

Test Object	Jacket	Aging Condition ($^{\circ}\text{C} \times \text{hrs}$)	100 x 168
Test Material	CMP-Plenum	After Tensile Strength (Mpa)	\geq 85% of unaged
Before- Tensile Strength (Mpa)	\geq 13.8	Aging Condition - Elongation (%)	\geq 50% of unaged
Aging- Elongation (%)	\geq 100	Cold Bend ($-20 \pm 2^{\circ}\text{C} \times 4\text{hrs}$)	No Crack
Min. Bend Radius	2.5cm/1.00in	Operating & Storage Temp.	-40°C to 75°C -40°F to 167°F
Max. Installation Tension	110N/25lb-ft	Installation Temp.	-20°C to 75°C -4°F to 167°F

We Ship direct from our high service warehouse.

Returns? No problem.
Guarantee? Of course

The information provided herein is, to the best of our knowledge, true and accurate. Since conditions of use are beyond our control, all information presented is without guarantee or responsibility on our part. We disclaim all liability in connection with the use of information contained herein or otherwise.



Cable ID: 6ACMP UTP PD KSJ > UTP STD LB CAT6/6A RJ45

Test Limit: TIA Cat 6A MPTL (+PoE)

Limits Version: V7.5

Date / Time: 04/08/2021 03:37:42 PM

Operator: DON S

Headroom 5.8 dB (NEXT 3,6-7,8)

Cable Type: Cat 6A U/UTP

NVP: 70.7%

Main: Versiv

S/N: 1924100

Software Version: V6.5 Build 5

Calibration Date: 11/14/2020

Adapter: DSX-8000 (DSX-PLA804)

S/N: 4523169

Test Summary: PASS

Remote: Versiv

S/N: 1917273

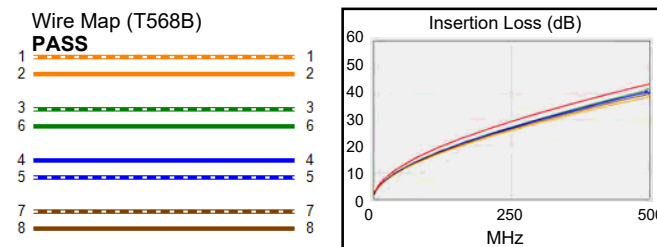
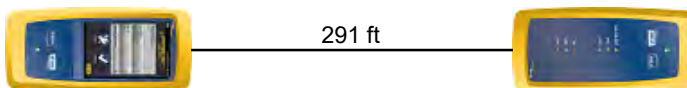
Software Version: V6.5 Build 5

Calibration Date: 11/14/2020

Adapter: DSX-8000R (DSX-PC6A)

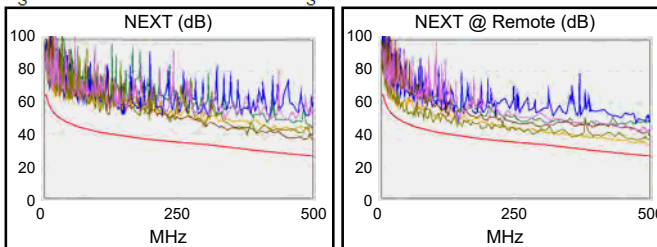
S/N: 4716155

Length (ft), Limit 295	[Pair 1,2]	291
Prop. Delay (ns), Limit 498	[Pair 4,5]	455
Delay Skew (ns), Limit 44	[Pair 4,5]	36
Resistance (ohms)	[Pair 4,5]	12.66
Resist. Unbal. (ohms)	[Pair 3,6]	0.125
Resist. P2P Unbal. (ohms)	[Pair 1,2-4,5]	0.231
Insertion Loss Margin (dB)	[Pair 3,6]	1.4
Frequency (MHz)	[Pair 3,6]	496.0
Limit (dB)	[Pair 3,6]	43.5

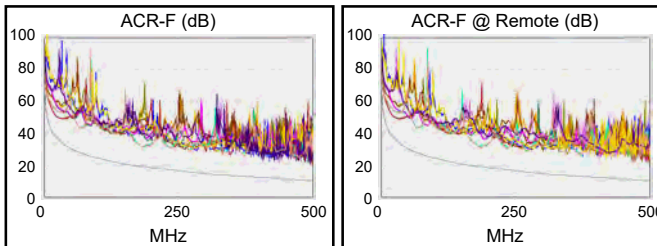


Worst Case Margin Worst Case Value

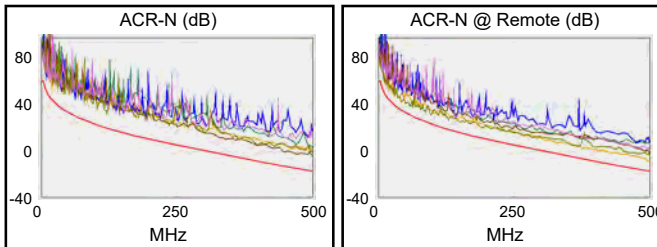
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-4,5	1,2-3,6
NEXT (dB)	8.7	5.8	10.3	6.5
Freq. (MHz)	378.0	96.8	500.0	500.0
Limit (dB)	30.7	42.1	26.7	26.7
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	9.7	6.0	10.7	7.2
Freq. (MHz)	378.0	266.0	500.0	500.0
Limit (dB)	27.9	32.3	23.8	23.8



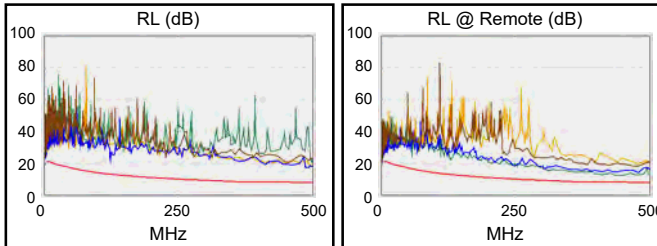
PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	3,6-4,5	4,5-3,6	3,6-4,5
ACR-F (dB)	9.5	10.5	9.5	10.5
Freq. (MHz)	500.0	500.0	500.0	500.0
Limit (dB)	10.2	10.2	10.2	10.2
Worst Pair	3,6	4,5	3,6	4,5
PS ACR-F (dB)	11.1	12.4	11.1	12.4
Freq. (MHz)	500.0	499.0	500.0	499.0
Limit (dB)	7.2	7.2	7.2	7.2



N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	3,6-7,8	3,6-4,5	1,2-3,6
ACR-N (dB)	10.8	7.4	13.6	8.4
Freq. (MHz)	18.1	50.0	500.0	498.0
Limit (dB)	46.3	34.2	-17.1	-16.9
Worst Pair	3,6	3,6	3,6	3,6
PS ACR-N (dB)	11.9	8.2	13.0	9.1
Freq. (MHz)	396.0	266.0	500.0	498.0
Limit (dB)	-11.0	1.7	-20.0	-19.8



PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2	3,6	4,5	3,6
RL (dB)	7.3	4.2	9.1	4.2
Freq. (MHz)	4.1	455.0	487.0	455.0
Limit (dB)	21.0	8.0	8.0	8.0



Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive