

Cat6A Unshielded Plenum

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



Packaging Available

- 1000ft Reel

Jacket Colors



Key Features

- Bandwidth tested up to 750 MHz
- Suitable for 1 and 10-Gigabit Ethernet
- Easily Identified Color Striped Pairs
- Sequential Footage Markings Every 2ft
- In compliance with ANSI/TIA 568.2-D
- RoHS-3 compliant
- Supports PoE, PoE+, and PoE++ (IEEE 802.3af/at/bt) up to 60W & 300V DC

Print Legend

trueCABLE CAT6A AUGMENTED CMP
75C 4PR U/UTP 23AWG c(ETL)us
VERIFIED to ANSI/TIA 568-2.D 750MHz
ROHS-3 XXXXFT MM/YY

Technical Data

Operating Temp. Range 75°C/167°F

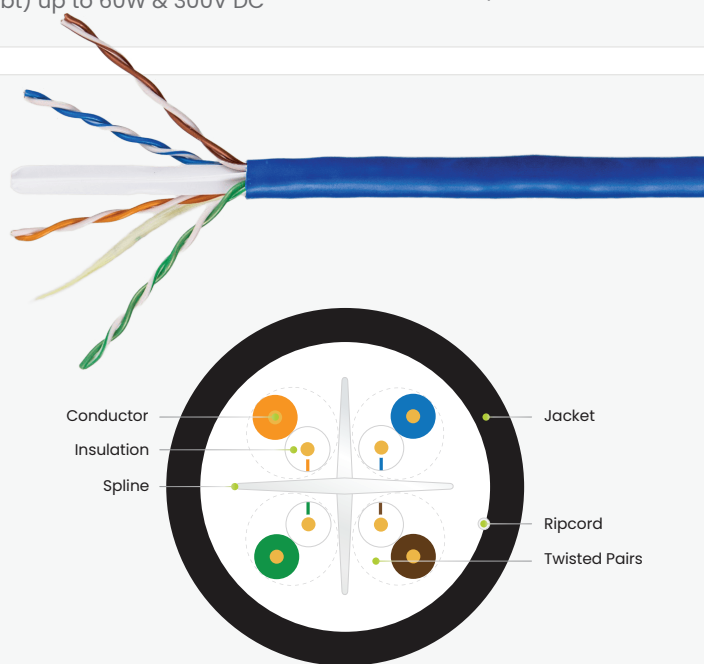
Max. Operating Voltage 300v

Bend Radius 2in/5mm

Insulation	FEP
Average Thickness	0.250
Min Point Thickness	0.230
Conductor Insulation Dia. (±0.01mm)	1.08
Twisted Pair Dia. (±0.02mm)	2.16
Spline	PE

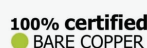
Jacket	CMP-PVC
Average Thickness	0.55
Min. Point Thickness	0.50
Overall Diameter (±0.1mm)	6.20
Ripcord	Yes

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



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Electrical Characteristics

Frequency MHz	Return Loss Min (dB)	Attenuation Max (dB/100m)	Next (Min dB)
1	20.0	2.1	74.3
4	23.0	3.8	65.3
8	24.5	5.3	60.8
16	25.0	7.5	56.2
20	25.0	8.4	54.8
62.5	21.5	15.0	47.4
100	20.1	19.1	44.3
200	18.0	27.6	39.8
250	17.3	31.1	38.3
300	16.8	34.3	37.1
500	15.2	45.3	33.8
750	14.0	62.3	31.1

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

1.0-100.0MHz Impedance(ohms) 100 ± 15

1.0-100.0MHz Delay Skew(ns/100m) ≤45

Pair-to-Ground Capacitance ≤3300
Unbalance (pF/100m)

Max. Conductor DC Resistance 72.2
20oC (ohms/km)

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

**We ship direct from our
high service factory.**

**Returns? No problem.
Guarantee? Of course.**

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Cable ID: 6ACMPBLU 10/20

Test Limit: TIA Cat 6A Perm. Link (+PoE)

Limits Version: V7.5

Date / Time: 11/23/2020 12:48:00 PM

Operator: DON S

Headroom 7.7 dB (NEXT 1,2-4,5)

Cable Type: Cat 6A U/UTP

NVP: 71.0%

Main: Versiv

S/N: 1924100

Software Version: V6.5 Build 5

Calibration Date: 11/14/2020

Adapter: DSX-8000 (DSX-PLA804)

S/N: 4523169

Remote: Versiv

S/N: 1917273

Software Version: V6.5 Build 5

Calibration Date: 11/14/2020

Adapter: DSX-8000R (DSX-PLA804)

S/N: 4523168

Test Summary: PASS

Length (ft), Limit 295	[Pair 7,8]	296
Prop. Delay (ns), Limit 498	[Pair 4,5]	446
Delay Skew (ns), Limit 44	[Pair 4,5]	22
Resistance (ohms), Limit 21.00	[Pair 4,5]	12.77
Resist. Unbal. (ohms), Limit 0.380	[Pair 3,6]	0.058
Resist. P2P Unbal. (ohms), Limit 0.440	[Pair 1,2-4,5]	0.113
Insertion Loss Margin (dB)	[Pair 3,6]	3.4
Frequency (MHz)	[Pair 3,6]	500.0
Limit (dB)	[Pair 3,6]	43.8

Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-4,5	3,6-4,5	3,6-7,8
NEXT (dB)	9.6	7.7	10.5	10.4
Freq. (MHz)	155.0	238.0	499.0	497.0
Limit (dB)	38.7	35.7	26.7	26.7
Worst Pair	1,2	1,2	3,6	3,6
PS NEXT (dB)	10.4	9.0	10.9	10.2
Freq. (MHz)	155.0	9.9	499.0	497.0
Limit (dB)	36.2	55.6	23.8	23.8

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	6.6	6.1	6.9	6.2
Freq. (MHz)	389.0	389.0	494.0	494.0
Limit (dB)	12.4	12.4	10.3	10.3
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	7.8	8.2	7.8	8.2
Freq. (MHz)	478.0	494.0	478.0	494.0
Limit (dB)	7.6	7.3	7.6	7.3

N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-7,8	1,2-4,5	3,6-4,5	3,6-7,8
ACR-N (dB)	10.4	9.9	14.4	14.1
Freq. (MHz)	3.8	14.4	499.0	497.0
Limit (dB)	61.1	48.7	-17.0	-16.9
Worst Pair	1,2	1,2	3,6	3,6
PS ACR-N (dB)	11.7	9.8	14.2	13.4
Freq. (MHz)	4.0	9.9	499.0	497.0
Limit (dB)	58.3	50.1	-19.9	-19.7

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	4,5	7,8	7,8
RL (dB)	2.4	2.7	8.2	8.8
Freq. (MHz)	4.9	4.9	447.0	460.0
Limit (dB)	21.0	21.0	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	

