



CAT6 CMP CABLE

UTP | MADE IN THE USA

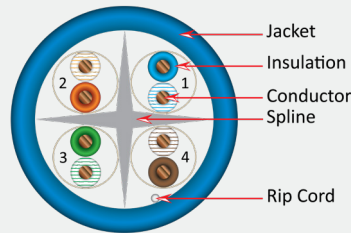
167 SERIES

DESCRIPTION

CAT6 UTP CMP (Plenum-Rated) UL-Listed, RoHS-Compliant, 1000 ft. Pull Box, Made in the USA

FEATURES

- 4-Pair Unshielded Twisted-Pair (UTP) Construction
- Plenum Fire Safety Rating (CMP)
- 23 AWG Solid Bare Copper Conductors
- Easy-to-See Vivid-Color Conductor Insulation and Cable Jacket
- Moisture-Resistant Box equipped with easy-to-pull tube
- Supports High-Speed Data Applications up to 10 Gbit/s
- Excellent Insertion Loss and Crosstalk Characteristics
- Supports PoE++ (Type 4) IEEE 802.3bt (71.3W)
- UL-listed, ETL-Verified, RoHS-Compliant
- 1000 ft Pull Box
- Weight: 41 lb. (18.6 kg)



PART NUMBERS

167-101/P/BL ● (Blue)	167-108/P/WH ○ (White)
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CONSTRUCTION

Size:	Solid Bare Copper
Insulation (all pairs):	23 AWG
Stranding:	FEP 0.0074 - 0.0098 in. (0.190 mm)
Spline:	Solid
Insulation Color Coding:	Fluoropolymer Filler
Number of Conductors:	Pair 1: Blue/White-Blue Pair 2: Orange/White-Orange
Jacket Material:	Pair 3: Green/White-Green Pair 4: Brown/White-Brown
Jacket Average Wall:	8 (4 Pairs)
Conductor Average DIA:	PVC: Flame Retardant Polyvinyl Chloride
Ripcord:	0.015 in. ± 0.002 (0.381 mm)
Shield:	0.046 in. (1.17 mm)
Drain Wire:	Yes
Cable Out DIA:	None
	None
	0.260 in. Nom. (6.60 mm)

MARKING

E472493 CAT6A AUGMENTED 10GIG c(UL)us CMP-LP (0.5A) FT6 23 AWG 4PR U/UTP 75C TESTED TO TIA-568.2-C ISO 11801 750 MHz MADE IN USA OP#/CL# ROHS COMPLIANT XXXXFT

COMPLIANCE

Safety:	ETL-Listed (tested per UL 444)
Fire Safety:	RoHS2 (Directive 2011/65/EU)
Performance:	NEC CMP (tested per NFPA 262)
	ANSI/TIA-568.2-D (ETL-verified)

ELECTRICAL

Operating Voltage Rating:	300 V _{RMS}
DC Resistance/Conductor:	8.3 Ohms/100 m nom. @ 20 °C max.
Resistance Unbalance:	0.5%
Mutual Capacitance:	4.63 nF/100 m max.
Input Impedance:	100 Ω ± 15%
Nominal Impedance:	100 Ω ± 15% (100 MHz)
	± 20 Ω (100-250 MHz)
	± 25 Ω (251-500 MHz)

MECHANICAL

Max. Rec. Pull Tension:	25 lb (111 N)
Min. Bend Radius:	0.9 in. min.
Approx. Climate Weight:	28 lb/1 mft nom.

Florida (HQ)
800-749-2447

California
951-696-7772

New York
845-391-8318

Texas
713-322-7242

verticalcable.com

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Rev. 05/2026

ENVIRONMENTAL

Storage Temperature:	100±15
Installation Temperature:	0° C to +50° C
Operating Temperature:	-20° C to +75° C
Operating Humidity:	≤93% RH non-condensing
Delay Skew:	11.08ns/100m
NVP:	73.8%

APPLICATION SUPPORT

PoE:	15-W PoE Type 1 (IEEE 802.3af) 30-W PoE+ Type 2 (IEEE 802.3at) 60-W PoE+/4PPoE Type 3 (IEEE 802.3bt)
HDBase-T:	Class A – Class D
Ethernet:	10GBASE-T (IEEE 802.3an) 2.5GBASE-T/5GBASE-T (IEEE 802.3bz) 1000BASE-T (IEEE 802.3ab) Gigabit Ethernet 100BASE-TX (IEEE 802.3u) 100-Mbps Ethernet (Fast Ethernet)
ATM:	ATM LAN 25/51/155/622
ANSI:	ANSI X3T9.5 TP-PMD (FDDI)

AWG	Number of 4-Pair Cables in Bundle																				
	1			2-7			8-19			20-37			38-61			62-91			92-192		
	60°C	75°C	90°C	60°C	75°C	90°C	60°C	75°C	90°C	60°C	75°C	90°C	60°C	75°C	90°C	60°C	75°C	90°C	60°C	75°C	90°C
24	2.0	2.0	2.0	1	1.4	1.6	0.8	1	1.1	0.6	0.7	0.9	0.1	0.1	0.7	0.4	0.5	0.6	0.3	0.4	0.5
23	2.5	2.5	2.5	1.2	1.5	1.7	0.8	1.1	1.2	0.6	0.8	0.9	0.5	0.7	0.8	0.5	0.7	0.8	0.4	0.5	0.6
22	3.0	3.0	3.0	1.4	1.8	2.1	1	1.2	1.4	0.7	0.9	1.1	0.6	0.8	0.9	0.6	0.7	0.8	0.5	0.6	0.7

ENG SWEEP TO 750MHZ, values above 550 MHz are for internal reference only.

Frequency (MHz)	Insertion Loss	Next	PS NEXT	ACR	PSACR-N	ACR-F	PSACR-F	Return Loss
1	1.6	100.8	98.3	104.6	95.0	102.1	96.3	40.0
4	3.2	109.3	95.8	94.5	86.1	90.2	87.0	42.4
8	4.6	88.2	86.3	96.1	80.0	86.7	80.2	40.2
10	5.2	91.7	85.1	86.0	81.9	84.9	73.6	39.8
16	6.6	92.7	85.6	85.6	75.0	76.7	68.0	38.4
20	7.4	86.8	80.3	77.4	69.9	70.4	63.2	38.9
25	8.3	81.5	75.7	77.7	67.7	81.2	58.8	40.7
31.25	9.3	77.1	75.3	77.1	64.0	77.3	56.5	38.0
62.5	13.5	71.7	70.6	67.7	57.2	59.1	57.8	43.2
100	17.3	80.9	69.4	66.7	53.4	54.4	48.0	37.8
155	22.0	70.0	63.6	58.5	37.5	38.3	36.4	35.5
200	25.2	70.6	62.5	48.5	35.6	41.3	33.4	36.7
250	28.5	70.9	64.3	45.3	34.1	38.8	29.4	29.1
300	31.3	70.2	62.0	38.7	27.1	34.5	20.5	28.1
350	34.0	68.8	60.4	40.5	20.6	31.4	18.5	27.6
400	36.8	63.8	58.6	43.4	20.7	29.1	10.8	29.9
450	39.7	61.3	58.2	28.7	13.7	16.5	13.1	26.7
500	42.1	59.0	56.4	33.1	10.9	13.9	13.4	26.6
550	44.1	67.0	59.1	25.1	7.3	13.3	8.4	24.8

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Rev. 05/2026



Cable ID/ Test ID: CAT6-CMP-UTP

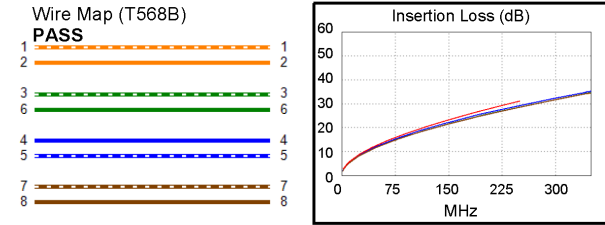
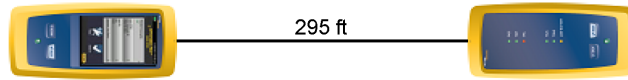
Test Limit: TIA Cat 6 Perm. Link (+PoE)
 Limits Version: V7.11
 Date / Time: 12/01/2025 08:57:31 AM
 Operator: TY
Headroom 7.1 dB (NEXT 3,6-4,5)
 Cable Type: Cat 6 U/UTP
 NVP: 72.0%

Main: Versiv
 S/N: 1808023
 Software Version: V6.13 Build 2
 Calibration Date: 07/11/2025
 Adapter: DSX-8000 (DSX-PLA804)
 S/N: 23290282

Test Summary: PASS

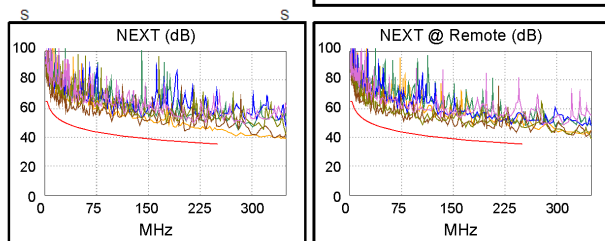
Remote: Versiv
 S/N: 1807069
 Software Version: V6.13 Build 2
 Calibration Date: 07/11/2025
 Adapter: DSX-8000R (DSX-PLA804)
 S/N: 21331027

Length (ft), Limit 295	[Pair 1,2]	295
Prop. Delay (ns), Limit 498	[Pair 4,5]	446
Delay Skew (ns), Limit 44	[Pair 4,5]	30
Resistance (ohms), Limit 21.00	[Pair 3,6]	15.30
Resist. Unbal. (ohms), Limit 0.460	[Pair 3,6]	0.269
Resist. P2P Unbal. (ohms), Limit 0.510	[Pair 1,2-3,6]	0.337
Insertion Loss Margin (dB)	[Pair 4,5]	1.9
Frequency (MHz)	[Pair 4,5]	250.0
Limit (dB)	[Pair 4,5]	31.1

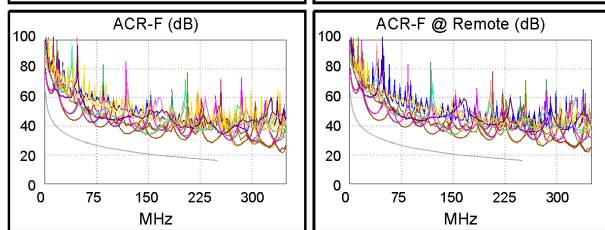


Worst Case Margin Worst Case Value

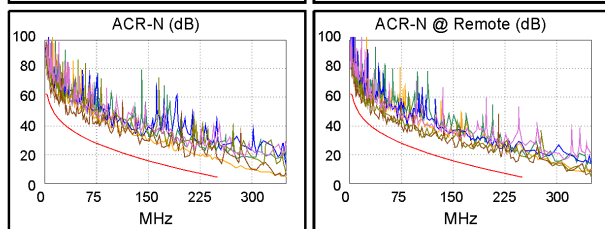
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	3,6-4,5	3,6-4,5
NEXT (dB)	7.1	7.3	7.8	7.8
Freq. (MHz)	8.9	30.4	203.0	241.0
Limit (dB)	58.6	50.2	36.8	35.6
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	8.4	8.5	8.4	9.5
Freq. (MHz)	206.0	107.5	206.0	240.0
Limit (dB)	34.1	38.8	34.1	33.0



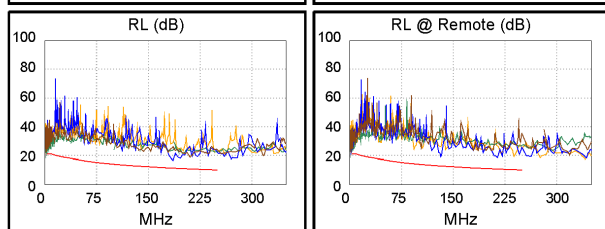
PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-1,2	1,2-3,6	1,2-3,6	1,2-3,6
ACR-F (dB)	11.3	11.3	11.9	11.9
Freq. (MHz)	161.0	162.0	242.5	242.5
Limit (dB)	20.1	20.0	16.5	16.5
Worst Pair	1,2	1,2	1,2	1,2
PS ACR-F (dB)	13.1	13.2	14.2	14.5
Freq. (MHz)	202.5	203.5	240.0	242.5
Limit (dB)	15.1	15.0	13.6	13.5



N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	3,6-4,5	1,2-3,6	3,6-4,5
ACR-N (dB)	7.3	7.6	11.7	9.6
Freq. (MHz)	8.9	30.4	244.0	241.0
Limit (dB)	53.4	40.4	4.8	5.1
Worst Pair	3,6	3,6	3,6	4,5
PS ACR-N (dB)	9.2	9.6	12.5	11.4
Freq. (MHz)	8.9	30.5	249.5	241.0
Limit (dB)	51.1	37.9	1.7	2.5



PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6	3,6	4,5	4,5
RL (dB)	3.7	4.7	4.8	7.3
Freq. (MHz)	3.8	4.9	187.0	215.0
Limit (dB)	21.0	21.0	11.3	10.7



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

LinkWare™ PC Version 11.8

Project: DEFAULT
 Site: Not Set
 Floor: Not Set
 Rack: Not Set
 Untitled1

Building: Not Set
 Room: Not Set
 Patch: Not Set



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