



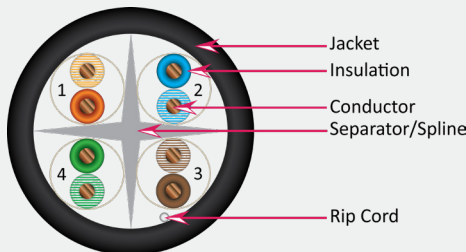
VERTICAL CABLE

DESCRIPTION

CAT6A, Unshielded with an overall Plenum jacket, 23 AWG/4 PAIR Solid bare copper conductors, 550MHz, 1000 ft Spool, Black – Made in the USA

FEATURES

- 23 AWG/4 PAIR Solid bare copper conductors
- Unshielded with an overall plenum jacket
- Spline-based construction with ribbed jacket ensuring excellent X-talk performance
- Suitable for 10Gb High-Speed Applications
- Meets Multiple PoE specifications
- Meets or exceeds ANSI/TIA-568.2-D
- ETL-listed, RoHS-Compliant
- Covered by 25-Year Warranty
- 1000 ft. Pull Box
- Weight: 41 lb. (18.60 kg)



CAT6A CMP CABLE

UTP | MADE IN THE USA | ETL-LISTED

176 SERIES

PART NUMBERS

176-300/A/P/BK ● (Black)	176-325/A/P/PK ● (Pink)
176-305/A/P/BL ● (Blue)	176-330/A/P/PR ● (Purple)
176-310/A/P/GR ● (Green)	176-335/A/P/RD ● (Red)
176-315/A/P/GY ● (Grey)	176-340/A/P/WH ○ (White)
176-320/A/P/OR ● (Orange)	176-345/A/P/YL ● (Yellow)

CONSTRUCTION

Solid Bare Copper
Size: 23 AWG
Stranding: Solid
Insulation Color Coding: Pair 1: Blue/White-Blue Pair 2: Orange/White-Orange
Pair 3: Green/White-Green Pair 4: Brown/White-Brown
Insulation (all pairs): FEP 0.00875-0.011 in. (0.222-0.279 mm)
Number of Conductors: 8 (4 Pairs)
Jacket Material: PVC: Plenum-Rated, Low-Smoke, Fire-Retardant
Cable Outer Diameter: 0.260 in (6.604 mm) nom.
Conductor Avg. Diameter: 0.046 in (1.17 mm)
Jacket Avg. Wall: 0.015 in ± 0.002 (0.381 mm)
Ripcord: Polyester
Spline: Fluoropolymer

MARKING

4010346 CAT6AAUGMENTED 10GIG c(ETL)us CMP-LP (0.5A) FT6 23 AWG
4PR UTP 75C TESTED TO ANSI/TIA 568.2-D ISO 11801 750 MHz MADE IN
USA/OP#/SP1 ROHS COMPLIANT XXXXFT 22024 10:39

COMPLIANCE

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

ELECTRICAL

Operating Voltage Rating: 300 V_{RMS}
DC Resistance: 7.09Ω/100m @ 20 °C max.
Resistance Unbalance: 1%
Mutual Capacitance: 4.68 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: 1.1 in. min. (27.94 mm)

Florida (HQ)
800-749-2447

California
951-696-7772

New York
845-391-8318

Texas
713-322-7242

verticalcable.com



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ENVIRONMENTAL

Storage Temperature:	-20° C to +75° C
Installation Temperature:	0° C to +50° C
Operating Temperature:	-20° C to +75° C
Operating Humidity:	≤93% RH non-condensing
Delay Skew:	20.91ns @ 1.312
NVP:	68.20%

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) 100-W PoE++/4PPoE Type 4 (IEEE 802.3bt) Class A – Class D
HDBase-T:	10GBASE-T (IEEE 802.3an)
Ethernet:	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

AMPACITY

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	90C°	60°C	75°C	90C°	60°C	75°C	90C°	60°C	75°C	90C°	60°C	75°C	90C°	60°C	75°C	90C°	60°C	75°C	90C°
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



Frequency (MHz)	Insertion Loss	Next	PS NEXT	ACR	PSACR	ACRF	PSACRF	Return Loss
1	1.6	100.8	98.3	104.6	95.0	102.1	93.3	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	54.5	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
600	45.9	57.1	56.7	31.3	2.2	12.6	3.2	25.8
650	47.7	59.1	54.2	21.8	-3.2	9	-3	26.7
700	49.3	58.2	55.7	12.5	-1.5	6.4	-1.4	27.8
750	52.7	69.4	52.1	11.0	-7.8	7.1	-5	32.8

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