



**VERTICAL CABLE**

# CAT6A CMP CABLE

UTP | MADE IN THE USA | ETL-LISTED

## 176 SERIES

### DESCRIPTION

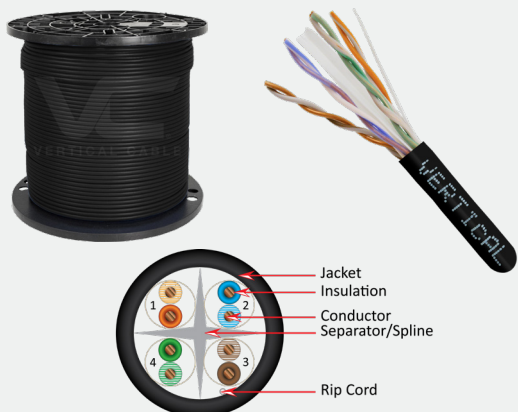
CAT6A, Unshielded with an overall Plenum jacket, 23 AWG/4 PAIR Solid bare copper conductors, 750MHz, 1000 ft Spool, Black - Made in the USA

### 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)

#### Compatible with VC RJ45 plugs

012-021-100 | 012-025/EZF-100  
012-026/EZF-100



### 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 CAT6A AUGMENTED 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<sub>RMS</sub>  
 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)

Florida (HQ)  
800-749-2447

California  
951-696-7772

New York  
845-391-8318

Texas  
713-322-7242

verticalcable.com



This specification sheet is subject to change without notice.

Rev. 05/2026

## MECHANICAL

Max. Rec. Pull Tension:

25 lb (111 N)

Min. Bend Radius:

1.1 in. min. (27.94 mm)

## 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%

## 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	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

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

Florida (HQ)  
800-749-2447

California  
951-696-7772

New York  
845-391-8318

Texas  
713-322-7242

verticalcable.com



This specification sheet is subject to change without notice.

Rev. 05/2026