



Specification Sheet

Lake Cable Part #: AV163CSCAT6

Description: Two element composite cable, unshielded and an overall PVC jacket for low-voltage electronic cable applications

- Category 6 - 23 AWG 4 Pairs Unshielded
- 16 AWG 3C Shielded Cable

Element 1: One Component 23AWG 4 UTP Cat6:

1. Jacket:

- 1.1. Material: Polyvinylchloride
- 1.2. Wall Thickness: **0.020"**
- 1.3. Diameter: **0.230"**
- 1.4. Ripcord: Nylon Required
- 1.5. Color: Blue + Standard UL Print.

2. Nominal Electrical Characteristics:

- 2.1. Impedance: 100 ± 15Ω (.772 to 100 MHz)
- 2.2. Max. Conductor Resistance: **9.38 Ω/100 Meters @ 20°C**
- 2.3. Max. Resistance Unbalance: 5%
- 2.4. Max. Capacitance Unbalance: 330 pF/100 Meters
- 2.5. Max. Delay Skew: 45 ns/100 Meters
- 2.6. Max. Velocity of Propagation: 68%

Your signature constitutes that you have read and agreed to this specification sheet and upon confirmation of your order; this item may be non-cancelable and non-returnable.

Signature

Company

Date

Typical Transmission Specifications

Freq (MHz)	Ins. Loss (dB/100m)	NEXT Loss (dB)	PSNEXT Loss (dB)	ACR (dB)	PSACR (dB)	ELFEXT (dB)	PSELFEXT (dB)	Return Loss (dB)
1	2.0	82.3	80.3	80.3	78.3	75.8	72.8	20.0
4	3.7	73.3	71.3	67.6	67.6	63.8	60.8	23.0
8	5.2	68.8	66.8	63.6	61.6	57.7	54.7	24.5
10	5.8	67.3	65.3	61.5	59.5	55.8	52.8	25.0
16	7.3	64.2	62.2	56.9	54.9	51.8	48.7	25.0
31.25	10.4	59.9	57.9	49.5	47.5	45.9	42.9	23.6
62.5	14.9	55.4	53.4	40.4	38.4	39.9	36.9	21.5
100	19.2	52.3	50.3	33.1	31.1	35.8	32.8	20.1
155	24.4	49.4	47.4	25.0	23	32.0	29.0	18.8
200	28.1	47.8	45.8	19.7	17.7	29.8	26.8	18.0
250	31.9	46.3	44.3	14.5	12.5	27.8	24.8	17.3
300	35.3	45.1	43.1	9.8	7.8	26.3	23.3	16.8
350	38.6	44.1	42.1	5.5	3.5	24.9	21.9	16.3
400	41.7	43.3	41.3	1.6	-	23.8	20.8	15.9
500	47.5	41.8	39.8	-	-	21.8	18.8	15.2
555	50.5	41.1	39.1	-	-	20.9	17.9	14.9

TIA/EIA-568-b.2-1 Category 6 Compliant
ISO/IEC 11801, 2nd Ed. Class E Compliant



Specification Sheet

Lake Cable Part #: 170828JRV5

Element 2: 16 AWG 3C Shielded Cable

1. Conductor
 - 1.1. AWG Size & Stranding: 16 AWG 19 Strands Class C
 - 1.2. Material: Annealed Bare Copper
 - 1.3. Conductor Count: 3 Conductors
2. Insulation
 - 2.1. Material: Polyvinylchloride
 - 2.2. Wall Thickness: **0.007"**
 - 2.3. Color Code: Black, Red, White
3. Assembly
 - 3.1. Nominal Lay Length: **3.00" LHL (4.00 tw/ft)**
 - 3.2. Shield: Aluminum/Mylar Tape - 100% Coverage
 - 3.3. Drain Wire: 24 AWG 7 Strands Tinned Copper
4. Jacket
 - 4.1. Material: Polyvinylchloride
 - 4.2. Wall Thickness: **0.015"**
 - 4.3. Diameter: 0.188"
 - 4.4. Color: Gray
 - 4.5. Ripcord: Yes
 - 4.6. Weight: 36 Lbs/Mft
5. Markings
 - 5.1. Type: Cable permanently identified via surface inkjet print
 - 5.2. Legend: LAKE E171202 16AWG 3C SHIELDED 75°C (UL) CL3R SUN RES OR C(UL)US CMR
FT4 "ROHS II" MADE IN USA
 - 5.3. Footage Markers: Yes
5. Electrical Characteristics
 - 5.1. Impedance: **55 ± 5Ω**
 - 5.2. Capacitance: 32-38 pF/ft
 - 5.3. DC Resistance: 4.35 Ω/Mft @ 20°C

Overall Assembly

6. Assembly (Element 1 & 2)
 - 6.1. Cable Lay Length: Pulled in parallel at jacketing
7. Jacket
 - 7.1. Material: Polyvinylchloride
 - 7.2. Wall Thickness: 0.030"
 - 7.3. Diameter: 0.480" ± 0.020"
 - 7.4. Color: Black
 - 7.5. Ripcord: No
 - 7.6. Weight: 101 Lbs/Mft

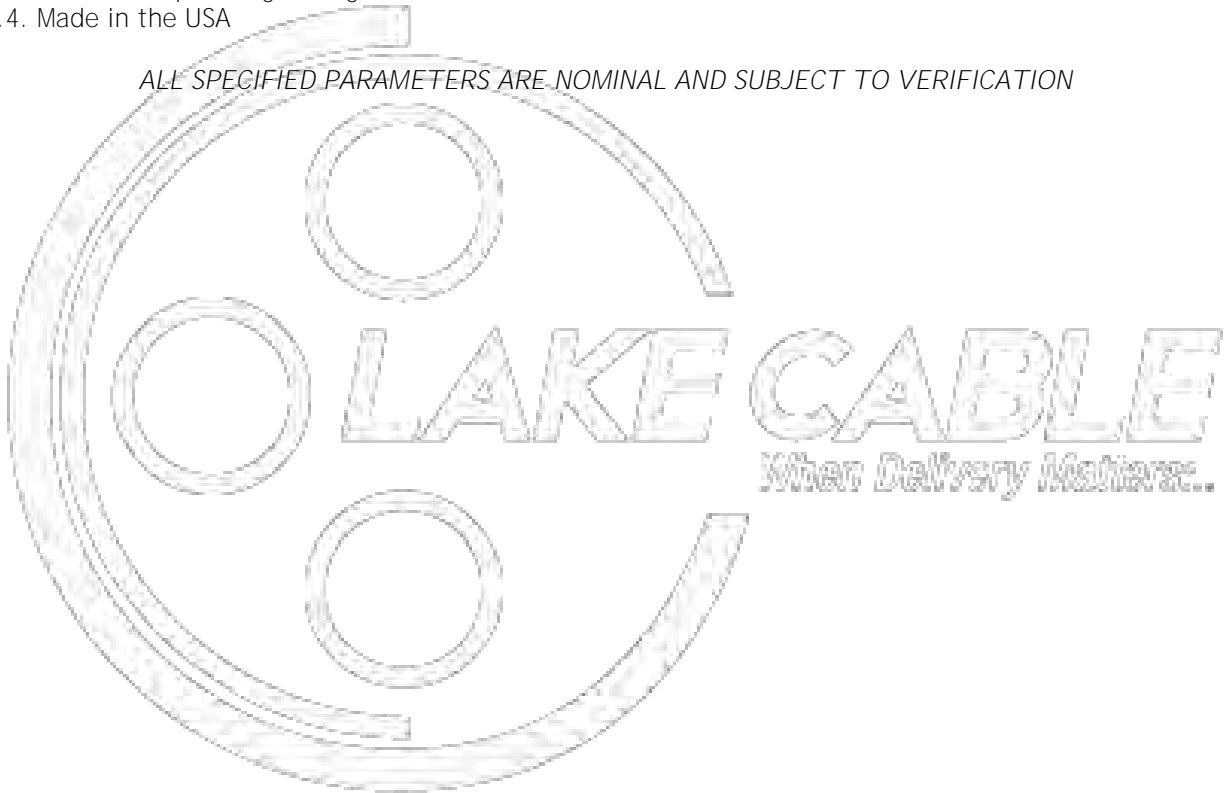


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Lake Cable Part #: 170828JRV5

- 8. Markings
 - 8.1. Type: Cable permanently identified via surface inkjet print
 - 8.2. Legend: LAKE CABLE E171202 16AWG 3C SHIELDED + CAT6 75°C (UL) CL3R SUN RES OR C(UL)US CMR FT-4 **“ROHS II”** **MADE IN USA**
 - 8.3. Footage Markers: Yes
- 9. Standards
 - 9.1. UL listed as CMR c(UL)US per UL standard 444, CL3R per UL standard 13
 - 9.2. All materials used in the manufacture of this cable are RoHS II & REACH compliant
 - 9.3. Maximum Operating Voltage: 300V RMS
 - 9.4. Made in the USA

ALL SPECIFIED PARAMETERS ARE NOMINAL AND SUBJECT TO VERIFICATION



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