



2012 CORPORATE LANE, SUITE 116 NAPERVILLE, IL 60563 TOLL FREE: 888-888-8045

Part #: AVCRESCQ-60/09
For use with CRESTRON Systems

Description: Five element composite cable, 1 pair 22 AWG shielded, 2 conductors 18 AWG unshielded, 4 Category 5E components with an overall PVC jacket for data communications and security applications manufactured in the USA and listed (UL) CM, 75°C.

Element 1: 22 AWG, 1 Pair Shielded Foam Polyethylene Insulated & 18 AWG, 2 Conductor PVC Insulated

Element 1A:

1. Conductor

- 1.1 AWG & Stranding: 22 AWG, Class B 7 Strands
- 1.2 Material: Annealed Bare Copper
- 1.3 Conductor Count: 1 Pair

2. Insulation

- 2.1 Material: Cellular Polyethylene
- 2.2 Wall Thickness: 0.020"
- 2.3 Color Code: Blue x White

3. Assembly

- 3.1 Pair Lay Length: 3.50" LHL Nominal
- 3.2 Pair Binder: N/A
- 3.3 Pair Shield: Aluminum Mylar - 100% coverage
- 3.4 Pair Drain Wire: 24 AWG, Tinned Copper

4. Nominal Electrical Characteristics

- 4.1 Impedance: 100 Ω/M'
- 4.2 Capacitance: 12.5 pF/ft. +/-10%
- 4.3 DC Resistance: 14.8 Ω/Mft. @ 20°C

Element 1B:

1. Conductor

- 1.1 AWG & Stranding: 18 AWG, Class B 7 Strands
- 1.2 Material: Annealed Bare Copper
- 1.3 Conductor Count: 1 Pair

2. Insulation

- 2.1 Material: Polyvinylchloride (PVC)
- 2.2 Wall Thickness: 0.007"
- 2.3 Color Code: Black x Red

Element 1: Overall Assembly

5. Assembly

- 5.1 Cable Lay Length: 3.50" LHL Nominal - 18AWG 2/C are cabled with 22 AWG Shielded Pair
- 5.2 Cable Binder: N/A
- 5.3 Cable Shield: N/A
- 5.4 Cable Drain Wire: N/A

6. Jacket

- 6.1 Material: Polyvinylchloride (PVC)
- 6.2 Wall Thickness: 0.035"
- 6.3 Diameter: 0.244"
- 6.4 Color: Teal/Yellow
- 6.5 Weight: 35 lbs./Mft

7. Markings

- 7.1 Type: Cable shall be permanently identified via surface inkjet print
- 7.2 Legend: P/N AVCRESNT-60/04
AVALANCHE BY LAKE CABLE HOME AUTOMATION NETWORK CABLE ROOM A B C
D E 0 1 2 3 4 5 6 7 8 9 E171197 18AWG 2C & 22AWG 1PAIR SHIELDED DATA
(UL) CM C(UL)US OR (UL) CL3 75'C (WORK ORDER #) "ROHS"

Element 2: Category 5E 350 MHZ Cable Component - Blue Jacket

Element 3: Category 5E 350 MHZ Cable Component - White Jacket

Element 4: Category 5E 350 MHZ Cable Component - Green Jacket

Element 5: Category 5E 350 MHZ Cable Component - Gray Jacket

5. Nominal Electrical Characteristics

- 5.1. Impedance: 100 +/- 15Ω (0.772 to 100 MHz)
- 5.2. Max Conductor Resistance: 9.8 Ω/100 Meters @ 20°C
- 5.3. Max Resistance Unbalance: 5%
- 5.4. Max Capacitance Unbalance: 330 pF/100 Meters
- 5.5. Max Delay Skew: 45 ns/100 Meters
- 5.6. Max Propagation Velocity: 68%

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	65.3	62.3	63.3	60.3	63.8	60.8	20.0
4	4.1	56.3	53.3	52.2	49.2	51.8	48.8	23.0
8	5.8	51.8	48.8	46.0	43.0	45.7	42.7	24.5
10	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16	8.2	47.2	44.2	39.0	36.0	39.7	36.7	25.0
31.25	11.7	42.9	39.9	31.2	28.2	33.9	30.9	23.6
62.5	17.0	38.4	35.4	21.4	18.4	27.9	24.9	21.5
100	22.0	35.3	32.3	13.3	10.3	23.8	20.8	20.1
155	28.1	32.4	29.4	4.3	1.3	20.0	17.0	18.8
200	32.4	30.8	27.8	-	-	17.8	14.8	18.0
250	36.9	29.3	26.3	-	-	15.8	12.8	17.3
400	48.5	26.3	23.3	-	-	11.8	8.8	15.9

TIA/EIA-568-b.2 Category 5e Compliant
ISO/IEC 11801, 2nd Ed. Class D Compliant

Overall Cable:

6. Assembly - Elements 1, 2, 3, 4 & 5

- 6.1 Cable Lay Length: Per UL Standard
- 6.2 Cable Binder: N/A
- 6.3 Cable Shield: N/A
- 6.4 Cable Drain Wire: N/A

7. Jacket

- 7.1 Material: Polyvinylchloride (PVC)
- 7.2 Wall Thickness: 0.040"
- 7.3 Diameter: 0.590"
- 7.4 Color: Teal/Whit
- 7.5 Weight: 183 lbs./Mft.

8. Markings

- 8.1 Type: Cable shall be permanently identified via surface inkjet print
- 8.2 Legend: AVALANCHE BY LAKE CABLE NETWORK CABLE E171197 18AWG 2C PWR, 22AWG
1PR SHIELDED CONTROL, (4) CAT5E 24 AWG 4PR 350MHZ DATA (UL) CM OR
CMR/CMG C(UL)US 75'C FT-4 (DATE OF MFG) "ROHS"

9. Standards

- 9.1. Refer to NEC (NFPA 70) article 800 and article 720 for installation guidelines
- 9.2. UL listed as Type CM c(UL)us 75'C per UL Standard 444
- 9.3. All materials used in the manufacture of this cable are RoHS compliant
- 9.4. Recommended Operating Voltage: 300V
- 9.5. Made in the USA

ALL SPECIFIED PARAMETERS ARE NOMINAL AND SUBJECT TO VERIFICATION