



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

Part #: AVCRESCT-60/02
For use with CRESTRON Systems

Description: Two component composite Avalanche cable.
Component #1: 2 conductor 18 AWG unshielded and 1 pair 22 AWG shielded with an overall PVC jacket
Components #2 (1) Category 5E cable.
All components are pulled in parallel and overall jacketed with PVC for systems control / data communications applications manufactured in the USA and listed (UL) CL3R or CMR c(UL)us, 75°C.

COMPONENT #1 (Crestnet Cable Equivalent):

Element 1: (Power/Control) 18 AWG, 1 Pair PVC Insulated Unshielded Component

- 1. Conductor**
 - 1.1. AWG & Stranding: 18 AWG, 7 Strands (Class B)
 - 1.2. Material: Annealed Bare Copper
 - 1.3. Conductors Count: 1 Pair
- 2. Insulation**
 - 2.1. Material: Polyvinylchloride (PVC)
 - 2.2. Wall Thickness: 0.007"
 - 2.3. Color Code: Black, Red

Element 2: (Data Communications) 22 AWG, 1 Pair foam PE Insulated Shielded Component

- 3. Conductor**
 - 3.1. AWG & Stranding: 22 AWG, 7 Strands (Class B)
 - 3.2. Material: Annealed Tinned Copper
 - 3.3. Conductors Count: 1 Pair
- 4. Insulation**
 - 4.1. Material: Foam Polyethylene
 - 4.2. Wall Thickness: 0.020"
 - 4.3. Color Code: Blue, White
- 5. Assembly**
 - 5.1. Cable Lay Length: Cabled on a Common-Axis with Element 1
 - 5.2. Cable Drain Wire: 24 AWG, 7 Strand Tinned Copper (Inside Foil)
 - 5.3. Cable Shield: Aluminum/Mylar Tape - 100% coverage (Foil Facing Inside)

6. Nominal Electrical Characteristics

- 6.1. DC Resistance: 14.8 Ω /Mft @ 20°C
- 6.2. Impedance 110 Ω +/- 5
- 6.3. Capacitance 12.5 pF/ft

7. Assembly - Elements 1 & 2

- 7.1. Cable Lay Length: 3.50” Left Hand Lay, Nominal

8. Jacket

- 8.1. Material: Polyvinylchloride (PVC)
- 8.2. Wall Thickness: 0.035”
- 8.3. Diameter: 0.244”
- 8.4. Color: Teal/Yellow
- 8.5. Ripcord: Yes
- 8.6. Weight: 87 lbs./Mft.

9. Markings

- 9.1. Type: Cable shall be permanently identified via surface inkjet print
- 9.2. 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) CMR C(UL)US OR (UL) CL3R 75°C
(WORK ORDER #) “ROHS”
- 9.3. Footage Markers: Yes

COMPONENT #2: (4 Pair Category 5e Cable)

10. Jacket

- 10.1. Material: Polyvinylchloride (PVC)
- 10.2. Wall Thickness: 0.015”
- 10.3. Diameter: 0.190”
- 10.4. Ripcord: Yes
- 10.5. Color: White

11. Nominal Electrical Characteristics

- 11.1. Impedance: 100 +/- 15 Ω (0.772 to 100 MHz)
- 11.2. Max Conductor Resistance: 9.8 Ω /100 Meters @ 20°C
- 11.3. Max Resistance Unbalance: 5%
- 11.4. Max Capacitance Unbalance: 330 pF/100 Meters
- 11.5. Max Delay Skew: 45 ns/100 Meters
- 11.6. Max Propagation Velocity: 68%

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 Assembly

12. Assembly - Components 1 & 2

12.1. Cable Lay Length: Components are pulled in parallel at jacketing operation

13. Jacket

13.1. Material: Polyvinylchloride (PVC)
13.2. Wall Thickness: 0.035"
13.3. Diameter: 0.435"
13.4. Color: Teal/Red
13.5. Ripcord: Yes
13.6. Weight: 84 lbs./Mft.

14. Markings

14.1. Type: Cable shall be permanently identified via surface inkjet print
P/N AVCRESCT-60/02 AVALANCHE BY LAKE CABLE NETWORK CABLE
18AWG 2C & 22AWG 1PAIR SHIELDED LOW CAP DATA & (1) 24 AWG 4PR
CAT5E DATA E171197 (UL) CMR C(UL)US OR (UL) CL3R 75°C (WORK
ORDER #) "ROHS"

14.3. Footage Markers: Yes

1. Standards

1.1. Refer to NEC (NFPA 70) article 800 and article 720 for installation guidelines
1.2. UL listed as Type CL3R per UL Standard 13 or as type CMR c(UL)us 75°C per UL Standard 444
1.3. All materials used in the manufacture of this cable are RoHS compliant
1.4. Recommended Operating Voltage: 300V
1.5. Made in the USA

ALL SPECIFIED PARAMETERS ARE NOMINAL AND SUBJECT TO VERIFICATION