



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

Part #: AVB6RGBC5

Description: One Cat5E and 25 AWG RGBHVC video snake composite cable with a TPE jacket for miniature component video cable

- (6) 25 AWG solid shielded + TC braid and a PVC jacket
- (1) 24AWG 4 pair unshielded cat5e 350 MHz PVC jacket

Element 1 thru 6: Six 25AWG RGBHVC

- 1. Conductor**
 - 1.1. AWG & Stranding: 25 AWG Solid
 - 1.2. Material: Annealed Bare Copper
 - 1.3. Conductor count: 1 conductor

- 2. Dielectric**
 - 2.1. Material: Foam Polyethylene
 - 2.2. Diameter: 0.074" ± 0.002"
 - 2.3. Color: Natural

- 3. Shield**
 - 3.1. Tape Shield: Aluminum/Mylar 100% Coverage - Fused to Dielectric
 - 3.2. Braid Shield: Tinned Copper Braid - 95% Coverage

- 4. Jacket**
 - 4.1. Material: Polyvinylchloride
 - 4.2. Wall Thickness: 0.012"
 - 4.3. Diameter: 0.114" ± 0.003"
 - 4.4. Color: Red, Green, Blue, Yellow, White & Black
 - 4.5. Ripcord: Not Required

- 5. Markings**
 - 5.1. Type: N/A
 - 5.2. Legend: N/A
 - 5.3. Footage Markers: N/A

- 6. Nominal Electrical Characteristics**
 - 6.1. DC Resistance: 31.0 Ω/Mft
 - 6.2. Shield DC Resistance: 17.8 Ω/Mft
 - 6.3. Capacitance: 17.0 pF/ft
 - 6.4. Impedance: 75 Ω ± 3 @ 20°C
 - 6.5. Propagation Velocity: 81%
 - 6.6. Return Loss: >-23dB Nom From 1MHz to 450MHz, >-19 Nom From 450MHz - 1.0GHz

From 3.0 to 4.0GHz

Attenuation Chart

Frequency (In MHz)	1	3.6	10	71.5	135	270	360	1000
Attenuation dB/100ft	0.29	0.55	0.86	2.10	2.70	3.70	4.40	7.60

Element 7: (4 Pair Category 5e Cable Unshielded):

7. Jacket:

- 7.1. Material: Polyvinylchloride (PVC)
- 7.2. Wall Thickness: 0.015”
- 7.3. Diameter: 0.190”
- 7.4. Color: Green
- 7.5. Ripcord: Nylon Ripcord

8. Electrical Properties:

- 8.1. Impedance: $100 \pm 15\Omega$ (.772 to 100 MHz)
- 8.2. Max. Conductor Resistance: 9.8 Ω /100 Meters @ 20°C
- 8.3. Max. Resistance Unbalance: 5%
- 8.4. Max. Capacitance Unbalance: 330 pF/100 Meters
- 8.5. Max. Delay Skew: 45 ns/100 Meters
- 8.6. Max. Velocity of Propagation: 68%

Transmission Specifications

Frequency (MHz)	Insertion 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

9. Overall Assembly (Elements 1 thru 7)

- 9.1. Planetary Lay Length: 6.50” LHL (1.8 Tw/Ft)
- 9.2. Binder: Non-woven tissue wrap, 100% coverage

10. Jacketing

- 10.1. Material: Thermoplastic Elastomer
- 10.2. Wall Thickness: 0.050”
- 10.3. Diameter: 0.510” \pm 0.020”
- 10.4. Color: Black
- 10.5. Ripcord: Not Required
- 10.6. Weight: 195 Lbs/Mft

11. Markings

- 11.1. Type: Cable permanently identified via surface inkjet print
- 11.2. Legend: AVALANCHE(TM) HIGH DEFINITION VIDEO SNAKE CABLE AVB6RGBC5
SDI/HDTV MINI RG59/U 75 OHM & CAT5E MADE IN USA “RoHS”
- 11.3. Footage Markers: Yes

12. Standards

- 12.1. All materials used in the manufacture of this cable are RoHS compliant
- 12.2. Made in the USA