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

**Part #: AVBRG6HDTV**

**Description:** 18AWG solid bare copper conductor with foamed PE insulation, heat fusible aluminum/mylar shield with a tinned copper braid shield and an overall PVC jacket for High definition / Serial Digital Interface video applications

- 1. Conductor**
  - 1.1.AWG & Stranding: 18 AWG Solid
  - 1.2.Material: Annealed Bare Copper
- 2. Dielectric**
  - 2.1.Material: Foam Polyethylene (FPE)
  - 2.2.Diameter: 0.180"  $\pm$  0.003"
  - 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 (PVC)
  - 4.2.Wall Thickness: 0.032"
  - 4.3.Diameter: 0.270"  $\pm$  0.005"
  - 4.4.Color: Black
  - 4.5.Ripcord: Not Required
  - 4.6.Weight: 42 lbs/Mft
- 5. Markings**
  - 5.1.Type: Cable permanently identified via surface inkjet print
  - 5.2.Legend: AVALANCHE(TM) HIGH DEFINITION VIDEO COAX AVBRG6HDTV SDI/HDTV RG 6/U 75 OHM 4.5GHZ E171197 18 AWG (UL) CL2R OR CMR C(UL)US 75°C FT-4 Made in the USA "RoHS"
  - 5.3.Footage Markers: Sequential Footage Markers Required
- 6. Nominal Electrical Characteristics**
  - 6.1.DC Resistance: 6.4  $\Omega$ /Mft
  - 6.2.Shield DC Resistance: 2.8  $\Omega$ /Mft
  - 6.3.Capacitance: 16.0 pF/ft
  - 6.4.Impedance: 75  $\Omega$  +/- 3 @ 20°C
  - 6.5.Propagation Velocity: 83%
  - 6.6.Return Loss: >-23dB Nom From 1MHz to 1.5GHz, >-21dB Nom From 1.5 to 3.0GHz, >-20dB From 3.0 to 4.0GHz

**Attenuation Chart**

<b>Frequency (In MHz)</b>	<b>1</b>	<b>3.6</b>	<b>10</b>	<b>71.5</b>	<b>135</b>	<b>270</b>	<b>360</b>	<b>1000</b>	<b>1500</b>	<b>2250</b>	<b>3000</b>	<b>4500</b>
<b>Attenuation dB/100ft</b>	0.23	0.44	0.71	1.64	2.16	3.10	3.59	5.95	7.60	9.71	10.98	14.98

**7. Standards**

- 7.1.Cable suitable for installations under NEC (NFPA 70) article 725 & article 800 guidelines
- 7.2.UL listed as Type CL2R per UL standard 13 and as type CMR c(UL)us 75'c per UL standard 444
- 7.3.Meets or exceeds the requirements of SMPTE 292M and 424M standards for HD/SDI
- 7.4.All materials used in the manufacture of this cable are RoHS compliant
- 7.5.Made in the USA

**Terminating Plugs**

<b>Connector Type</b>	<b>ADC</b>	<b>Canarie</b>	<b>AIM</b>	<b>Kings</b>	<b>Amphenol RF</b>	<b>Amphenol Connex</b>
<b>Type F</b>	CF8	FPC53	25-7032	N/A	N/A	N/A
<b>Type BNC</b>	BNC8	N/A	N/A	2065-10-9	034-1017-300	N/A
<b>Plenum Type F</b>	CF8	FPC55	25-7047	N/A	N/A	N/A
<b>Plenum Type BNC</b>	BNC10	N/A	N/A	2065-10-9	034-1017-300	N/A