



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

Part #: AVBRG59HDTV

Description: 20 AWG 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: 20 AWG Solid
 - 1.2.Material: Annealed Bare Copper
- 2. Dielectric**
 - 2.1.Material: Foam Polyethylene (FPE)
 - 2.2.Diameter: 0.146" ± 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: 0.242" ± 0.005"
 - 4.4.Color: Black
 - 4.5.Ripcord: Not Required
 - 4.6.Weight: 35 Lbs/Mft
- 5. Markings**
 - 5.1.Type: Cable permanently identified via surface inkjet print
 - 5.2.Legend: AVALANCHE(TM) HIGH DEFINITION VIDEO COAX AVBRG59HDTV SDI/HDTV RG 59/U 75 OHM 4.5GHZ E171197 20 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: 10.2 Ω/Mft
 - 6.2.Shield DC Resistance: 3.8 Ω/Mft
 - 6.3.Capacitance: 16.2 pF/ft
 - 6.4.Impedance: 75 Ω +/- 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

Frequency (In MHz)	1	3.6	10	71.5	135	270	360	720	1000	1500	2250	3000	4500
Attenuation dB/100ft	0.29	0.55	0.86	2.10	2.70	3.70	4.40	6.40	7.60	9.30	11.50	13.30	16.40

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

Connector Type	ADC	Canarie	AIM	Kings	Amphenol RF	Amphenol Connex
Type F	CF1	FPC4F	25-7030	N/A	N/A	N/A
Type BNC	BNC1	N/A	N/A	2065-2-9	034-1025	N/A
Plenum Type F	CF1	N/A	25-7049	N/A	N/A	N/A
Plenum Type BNC	BNC6	N/A	N/A	2065-2-9	034-1025	N/A