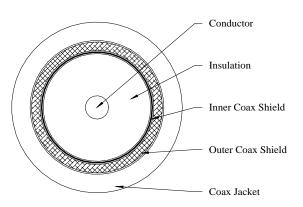
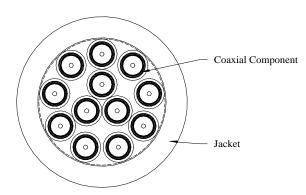
12 CONDUCTOR 20 AWG DS3 TYPE 734 COAXIAL CABLE

Coaxial Component



Final Assembly



CONSTRUCTION

Coaxial Component

Conductor: 20 AWG Solid Silver Plated Copper, 0.031 Inch Diameter Insulation: 0.0585 Inches of Foam Polyolefin, 0.148 Inch Diameter

Inner Coax Shield: Aluminum/Polyester/Aluminum Tape, Applied Longitudinally,

Heat-Sealed

Outer Coax Shield: 34 AWG Tin Plated Copper Braid, 80% Coverage

Coax Jacket: 0.027 Inches of XPbT, Color - Gray

Coax Diameter: 0.235 ± 0.005 Inches

Identification: Jackets are numbered sequentially from "1-ONE" to "12-TWELVE"

Final Assembly

Core: 3 Coaxial Components (#1-3) Cabled Together Layer 1: 9 Coaxial Components (#4-12) Cabled Around Core

Binder: Polypropylene Ribbon **Ripcord**: Applied Under Jacket

Jacket: 0.034 Inches of XPbT, Color – Gray

Diameter: 1.015 Inches Nominal

Print Legend: "TYPE CMR 20 AWG (UL) MADISON CABLE CSA TYPE CMG

MS #101-3635 DS3 RoHS COMPLIANT"

Footage Marking: Sequential footage marked every 24 Inches on jacket.

ELECTRICAL CHARACTERISTICS

Impedance: 75 Ohms Nominal Capacitance: 17.3 pF/ft Nominal Velocity of Propagation: 80% Nominal Time Delay: 1.30 ns/ft Nominal

Structural Return Loss: 30 dB Minimum @ 15-90 MHz

Attenuation:

Attenuation¹: 2.7 dB/1000 ft Nominal @ 1 MHz

6.1 dB/1000 ft Nominal @ 5 MHz 8.3 dB/1000 ft Nominal @ 10 MHz 18.7 dB/1000 ft Nominal @ 50 MHz 27.1 dB/1000 ft Nominal @ 100 MHz 39.5 dB/1000 ft Nominal @ 200 MHz

Conductor DC Resistance: 0.010 Ohms/ft Nominal @ 20°C

 1 Values shown are examples, attenuation at any frequency between 1 and 100 MHz is within \pm 15% of the requirements of ANSI T1.102.

SAFETY CERTIFICATION

UL Listing: Type CMR as specified in Article 800 of the National Electrical Code **CSA Certification:** Type CMG

RoHS Compliance: In Accordance to European Directive 2002/95/EC, Issue 13.2.2003

INDUSTRY STANDARDS

ANSI: Meets all requirements for DS3 Type 735 interconnect per ANSI T1.102.
 Bellcore: Meets all requirements of Bellcore GR-139-CORE per Telcordia report DA-1008, Vol. 1, Issue 1, July 1999

| MADICON Cable tyco | REVISION HISTORY | | | | | |
|--|------------------|----------|--------|-----------------|-----------|--------|
| MADISON Cable **Electronics** | 1 | 11/14/05 | DC | Initial Release | | |
| I'IADIOUN OUDIO Electronics | | | | | | |
| 125 Goddard Memorial Drive • Worcester, MA 01603 USA | | | | | | |
| Tel: (508) 752-2884 Toll-Free: (877) MADISON Fax: (508) 752-4230 | | | | | | |
| Spec Number: 101-3635 | | | | | | |
| Part Number: 12KHELF004 | | | | | | |
| Customer: | Prepared By: | | D.M. | Card | | Page |
| Customer #: | Reviewed By: | | E. Pie | ekielniak | M. Dupuis | 1 of 1 |