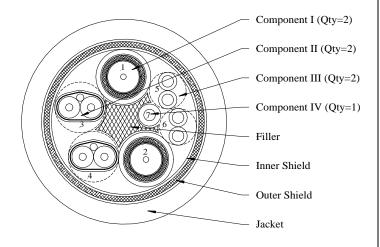
2 COAX 30 AWG + 2 PAIR 28 AWG + 2 PAIR 24 AWG + 1 CONDUCTOR 24 AWG COMPOSITE CABLE

CUSTOMER PROPRIETARY

THIS CONFIDENTIAL DOCUMENT HAS BEEN RELEASED WITH THE UNDERSTANDING THAT IT SHALL NOT BE SENT TO ANYONE OTHER THAN THE ORIGINAL INTENDED RECIPIENT WITHOUT PRIOR AUTHORIZATION FROM TYCO ELECTRONICS/MADISON CABLE



CONSTRUCTION

Component I – 30 AWG Coaxes

Conductor: 30 AWG 7/38 Tin Plated Copper, 0.012 Inch Diameter **Insulation**: 0.021 Inches of Foam Polyethylene, 0.054 Inch Diameter

Coax Inner Shield: Aluminum/Polyester Tape, Aluminum Side Facing Out, 25%

Overlap

Coax Outer Shield: 38 AWG Tin Plated Copper Braid, 85% Coverage

Coax Jacket: 0.010 Inches of PVC **Coax Diameter**: 0.094 Inches Nominal

Component II – 28 AWG Shielded Pairs

Conductor: 28 AWG 7/36 Tin Plated Copper, 0.015 Inch Diameter Insulation: 0.0155 Inches of Polyolefin, 0.046 Inch Diameter

Pair: 2 Insulated Conductor Twisted Together

Drain Wire: 28 AWG 7/36 Tin Plated Copper, 0.015 Inch Diameter

Pair Shield: Aluminum/Polyester Tape, Aluminum Side Facing In, 25% Overlap,

Color – Yellow **Pair Jacket**: Polyester Tape

Pair Diameter: 0.098 Inches Nominal

Component III – 24 AWG Unshielded Pairs

Conductor: 24 AWG 7/32 Tin Plated Copper, 0.024 Inch Diameter

Insulation: 0.007 Inches of PVC, 0.038 Inch Diameter **Pair**: 2 Insulated Conductors Twisted Together

Component IV – 24 AWG Single

Conductor: 24 AWG 7/32 Tin Plated Copper, 0.024 Inch Diameter

Insulation: 0.007 Inches of PVC, 0.038 Inch Diameter

Final Assembly

Core: 1 Component IV (#7) and Fibrillated Polypropylene Filler

Layer 1: 2 Component I (#1-2), 2 Component II (#3-4), and 2 Component III (#5-6) Cabled Around Core

Inner Shield: Aluminum/Polyester Tape, Aluminum Side Facing Out, 25% Overlap

Outer Shield: 36 AWG Tin Plated Copper Braid, 85% Coverage

Jacket: 0.038 Inches of Flexible PVC, Color – Black

Diameter: 0.350 ± 0.010 Inches

Print Legend (White Ink): "MADISON CABLE (UL) TYPE CL2 75°C 2C/30 AWG AND 2PR/28 AWG AND 5C/24 AWG GV 176-0517-01 RoHS

COMPLIANT {Date Code}¹"

Date code is a 4-digit code with the first 2 digits identifying the calendar week and the last 2 digits identifying the calendar year of manufacture. Example - 0206 for cable manufactured the second week of 2006.

COLOR CODE										
Comp #	Comp	Conductor #1	Conductor #2	Coax Jkt Color						
1	I	Natural		Brown						
2	I	Natural		Yellow						
3	II	White/Blue	White/Red							
4	II	White/Green	White/Orange							
5	III	White	Green							
6	III	White	Blue							
7	IV	Black								

ELECTRICAL CHARACTERISTICS

Component I – 30 AWG Coaxes Impedance: 75 Ohms Nominal @ TDR Capacitance: 18 pF/ft Nominal Velocity of Propagation: 75% Nominal

Time Delay: 1.34 ns/ft Nominal

Conductor DC Resistance: 0.10 Ohms/ft Nominal @ 20°C

Component II – 28 AWG Shielded Pairs

Differential Impedance: 100 Ohms Nominal @ TDR

Mutual Capacitance: 16 pF/ft Nominal Velocity of Propagation: 64% Nominal Time Delay: 1.57 ns/ft Nominal

Time Delay Skew (Within Pair): 200 ps/50 ft Maximum Conductor DC Resistance: 0.061 Ohms/ft Nominal @ 20°C

<u>Components III & IV</u> – 24 AWG Unshielded Pairs and Single Conductor DC Resistance: 0.024 Ohms/ft Nominal @ 20°C

SAFETY CERTIFICATION

UL Listing: Type CL2 as specified in Article 725 of the National Electrical Code RoHS Compliance: In Accordance to European Directive 2002/95/EC, Issue 13.2.2003

			REVISION HISTORY					
Trees	Eleckyopies MADICON Cable	1	04/10/08	HA	Initial Release			
Tyco	Electronics	2	07/08/08	HA	Revised Jacket '	Wall		
125 Goddard Memorial Drive • Worcester, MA 01603 USA		3	10/14/10	DC	Revised Comp II, Color Code, dwg, Elect., et. al.			
Tel: (508) 752-2884 Toll-Free: (877) MADISON Fax: (508) 752-4230								
Spec Number:	101-7447							
Part Number:	11ZZSLF013							
Customer:	Thompson Grass Valley		ared By:	D.M.	Card		Page	
Customer #:	GV 176-0517-01 (For Reference Only)		eviewed By: K. Arsenault		B. Morissette	1 of 1		

Users should evaluate the suitability of this product for their application. Contact factory for latest revision of specification. Tyco Electronics reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to the Buyer.