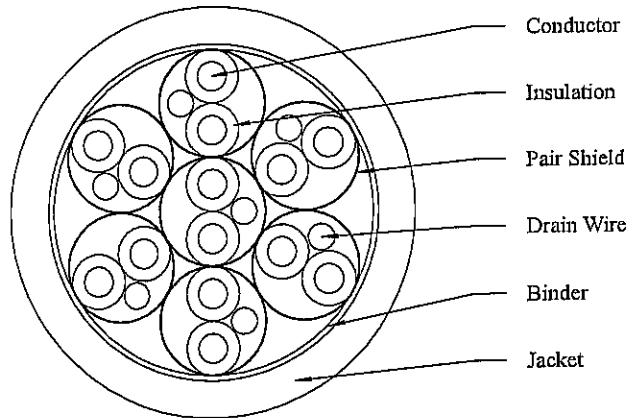


# 7 PAIR 24 AWG LOW CAPACITANCE CABLE



### CONSTRUCTION

**Pair Component**

**Conductor:** 24 AWG 7/32 Tin Plated Copper, 0.024 Inch Diameter  
**Insulation:** 0.019 Inches of Foam FEP, 0.062 Inch Diameter  
**Pair:** 2 Insulated Conductors Twisted Together  
**Drain Wire:** 24 AWG 7/32 Tin Plated Copper, 0.024 Inch Diameter  
**Pair Shield:** Foil-Free Edge Aluminum/Polyester Tape, Aluminum Side Facing In, 25% Overlap

**Final Assembly**

**Core:** 1 Pair (#1)  
**Layer #1:** 6 Pairs (#2-7) Cabled Around Core  
**Binder:** Polyester Tape, 25% Overlap  
**Jacket:** 0.015 Inches of PVC Plenum, Color – Gray  
**Diameter:** 0.370 Inches Nominal  
**Print Legend (Black Ink):** "MADISON CABLE (UL) TYPE CMP 150°C 24 AWG (UL) TYPE CMP 150°C RoHS COMPLIANT {Date Code}"

<sup>1</sup> 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

Pair #	Conductor #1	Conductor #2
1	White/Blue	Yellow/Blue
2	White/Orange	Yellow/Orange
3	White/Green	Yellow/Green
4	White/Brown	Yellow/Brown
5	White/Gray	Yellow/Gray
6	White/Red	Yellow/Red
7	White/Black	Yellow/Black

### ELECTRICAL CHARACTERISTICS

**Differential Impedance:** 100 Ohms Nominal @ TDR  
**Mutual Capacitance:** 13.5 pF/ft Nominal  
**Single-Ended Capacitance:** 24 pF/ft Nominal  
**Velocity of Propagation:** 76% Nominal  
**Time Delay:** 1.32 ns/ft Nominal  
**Conductor DC Resistance:** 0.024 Ohms/ft Nominal @ 20°C

### MECHANICAL CHARACTERISTICS

**Maximum Operating Voltage:** 300 V RMS  
**Operating Temperature:** -20°C to +150°C  
**Maximum Recommended Current:** 2.0 Amps per Conductor @ 25°C

### SAFETY CERTIFICATION

**UL Listing:** Type CMP as specified in Article 800 of the National Electrical Code  
**C(UL) Listing:** Type CMP  
**RoHS Compliance:** In Accordance to European Directive 2002/95/EC, Issue 13.2.2003

## Not Approved for Release

*[Handwritten Signature]*  
3/2/10

**Tyco Electronics** **MADISON Cable**  
 125 Goddard Memorial Drive • Worcester, MA 01603 USA  
 Tel: (508) 752-2884 Toll-Free: (877) MADISON Fax: (508) 752-4230

### REVISION HISTORY

Rev #	Date	By	Description
1	07/22/05	KA	Initial Release
2	08/11/05	KA	Added P/N
3	02/05/10	DC	Revised print legend
4	02/25/10	DC	Revised color code

<b>Spec Number:</b>	101-2779	<b>Prepared By:</b>	D.M. Card	<b>Page</b>
<b>Part Number:</b>	147FMLF001	<b>Reviewed By:</b>	K. Arsenault	B. Morissette
<b>Customer #:</b>				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.