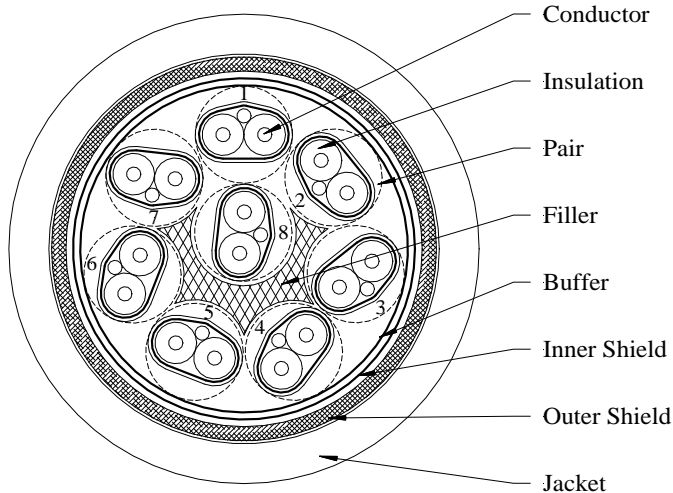


# 8 PAIR 32 AWG 10G INFINITWIST™ CABLE

## PROPRIETARY DESIGN

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 MADISON CABLE



Note: Drain wire orientation (relative to outside of cable) will vary due to pair twisting.

### CONSTRUCTION

#### Pair Component

**Conductor:** 32 AWG Solid Silver Plated Copper, 0.008 Inch Diameter  
**Insulation:** 0.0085 Inches of Polyolefin, 0.025 Inch Diameter, Color – Natural  
**Pair:** 2 Singles Twisted Together  
**Drain Wire:** 32 AWG Solid Silver Plated Copper, 0.008 Inch Diameter  
**Pair Shield:** Aluminum/Polyester Tape, Aluminum Side Facing In 25% Overlap, Color – See Color Code Table  
**Pair Jacket:** Polyester Tape  
**Pair Diameter:** 0.058 Inches Nominal

#### Final Assembly

**Core:** 1 Pair (#8) and Fibrillated Polypropylene Filler  
**Layer 1:** 7 Pairs (#1-7) Cabled Around Core  
**Buffer:** Foam Polypropylene Tape, 50% Overlap  
**Inner Shield:** Aluminum/Polyester Tape, Aluminum Side Facing Out, 25% Overlap  
**Outer Shield:** 40 AWG Tin Plated Copper Braid, 85% Coverage  
**Jacket:** 0.022 Inches of PVC, Color – Black  
**Diameter:** 0.235 Inches Nominal  
**Print Legend (White Ink):** "MADISON CABLE (UL) TYPE CL2 75°C 32 AWG FT4 InfiniTwist™ 10G 101-9369 RoHS COMPLIANT {Date Code}"<sup>1</sup>

<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 TABLE

Pair #	Pair Shield Color
1	Yellow
2	Blue
3	Green
4	Orange
5	Red
6	White
7	Brown
8	Violet

### ELECTRICAL CHARACTERISTICS

**Differential Impedance:** 100 ± 5 Ohms @ TDR  
**Mutual Capacitance:** 15 pF/ft Nominal  
**Time Delay:** 1.55 ns/ft Nominal  
**Time Delay Skew (Within Pair):** 40 ps/4 m Maximum  
**Time Delay Skew (Between Pair):** 350 ps/4 m Maximum  
**Attenuation (SDD21)<sup>2</sup>:**

Frequency (GHz)	Attenuation (dB/4 m Nom.)
1.25	7.3
2.50	11.0
5.00	17.4
7.00	22.6
10.0	30.4

**Differential to Common Mode Conversion (SCD21):** 28 dB Nominal  
**Conductor DC Resistance:** 0.16 Ohms/ft Nominal @ 20°C

<sup>2</sup> Tested/Functional to 10 GHz over a 4 meter length.

### 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

\*\*\* UL Approval Pending \*\*\*

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### REVISION HISTORY

Rev #	Date	By	Description
1	12/08/09	HA	Initial Release
2	01/12/10	HA	Rev'd ins/jkt wall/od, braid; Added color table
3	09/28/10	RL	Revised Color Code

<b>Spec Number:</b>	<b>101-9369</b>
<b>Part Number:</b>	<b>16PA3LF001</b>
<b>Customer:</b>	
<b>Customer #:</b>	

<b>Prepared By:</b>	R. Lemos	<b>Reviewed By:</b>	T. Grzysiewicz	<b>Page</b>	
			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.