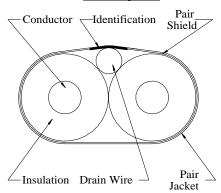
8 PAIR 28 AWG 14G TURBOTWINTM CABLE

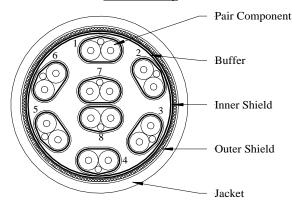
PROPRIETARY DESIGN

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 TE CONNECTIVITY/MADISON CABLE

Pair Component



Final Assembly



CONSTRUCTION

Pair Component

Conductor: 28 AWG Solid Silver Plated Copper, 0.0126 Inch Diameter

Insulation: 0.0122 Inches of Foam Polyolefin, 0.037 Inch Diameter, Color – Natural

Pair: 2 Singles Laid Flat and Parallel

Drain Wire: 30 AWG Solid Tin Plated Copper, 0.010 Inch Diameter

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

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

Pair Diameter: 0.043 x 0.080 Inches Nominal

 $\label{pair Identification: Pairs sequentially numbered on entire length of pair.}$

Final Assembly

Core: 8 Pairs (#1-8) Cabled Together Buffer: Foam Polyolefin Tape

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

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

Jacket: 0.032 Inches of Flexible PVC, Color - Black

Diameter: 0.315 Inches Nominal

Print Legend (White Ink): "MADISON CABLE (UL) TYPE CL2 75°C 28 AWG
CSA AWM II A/B 75°C 30V FT4 TurboTwin™ 14G 102-0377
2011/65/EU SUBSTANCE COMPLIANT {Date Code}¹"

¹ Date Code is a 4-digit code with the first two digits identifying the calendar week and the last two identifying the calendar year of manufacturing. Example – 0206 for cable manufactured in the second week of January 2006.

ELECTRICAL CHARACTERISTICS

Differential Impedance: 100 ± 5 Ohms @ TDR

Mutual Capacitance: 14 pF/ft Nominal

Time Delay: 1.35 ns/ft Nominal

Time Delay Skew (Within Pair): 43 ps/5.5 m Maximum
Time Delay Skew (Between Pairs): 300 ps/5.5 m Maximum

Attenuation (SDD21)²:

| Frequency | Attenuation | | | | | |
|-----------|--------------------|--|--|--|--|--|
| (GHz) | (dB/5.5 m Nominal) | | | | | |
| 1.25 | 6.9 | | | | | |
| 2.50 | 10.4 | | | | | |
| 5.00 | 16.0 | | | | | |
| 7.00 | 20.1 | | | | | |
| 9.00 | 24.4 | | | | | |
| 10.00 | 25.9 | | | | | |
| 12.00 | TBD | | | | | |
| 14.00 | TBD | | | | | |

Differential to Common Mode Conversion (SCD21): 30 dB Nominal

Conductor DC Resistance: 0.066 Ohms/ft Nominal @ 20°C

MECHANICAL CHARACTERISTICS

Bend Radius (5 X OD): 1.5 Inches Minimum

SAFETY CERTIFICATION

UL Listing: Type CL2 as specified in Article 725 of the National Electrical Code

CSA Certification: AWM II A/B 75°C 30 Volts FT4

RoHS II Material Compliance: In accordance with EU Directive 2011/65/EU for the

Restriction of Hazardous Substances

| Madison Cable 125 Goddard Memorial Drive Worcester, MA 01603 USA (508) 752-2884 (877) MADISON | | Madiaan Oakla | REVISION HISTORY | | | | | | |
|---|------------|------------------------------|------------------|----------|-------|--|-----------|--------|--|
| | | | 1 | 11/16/10 | HA | Initial Release | | | |
| | | | 2 | 03/22/11 | DC | Revised drain wire | | | |
| | | (508) 752-2884 (877) MADISON | 3 | 12/27/11 | HA | Revised Electrical Characteristics & Pair/Jkt OD | | | |
| | | | 4 | 02/05/13 | RL | Revised Jkt Wall/OD and Print Legend | | | |
| Spec Number: | 102-0377 | | | | | | | | |
| Part Number: | 16KD2LF039 | | | | | | | | |
| Customer: | | | Prepared By: | | H. Ab | ousamra | | Page | |
| Customer #: | | | Reviewed By: | | K. Ni | ppani | M. Dupuis | 1 of 1 | |

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

² Tested/Functional to 14 GHz over a 5.5 meter length