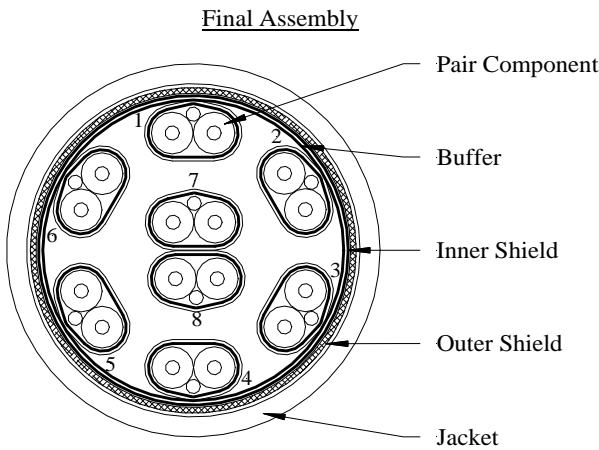
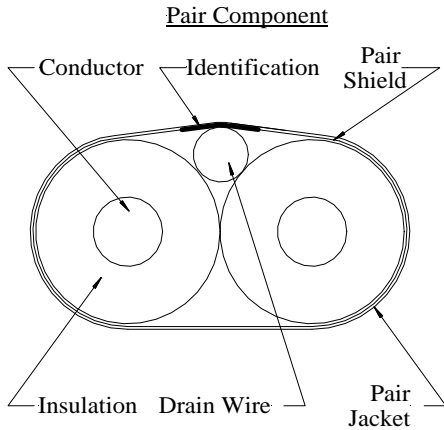


8 PAIR 26 AWG 14G TURBOTWIN™ CABLE

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



CONSTRUCTION

Pair Component

- Conductor:** 26 AWG Solid Silver Plated Copper, 0.0159 Inch Diameter
- Insulation:** 0.0145 Inches of Foam Polyolefin, 0.045 Inch Diameter, Color – Natural
- Pair:** 2 Singles Laid Flat and Parallel
- Drain Wire:** 28 AWG Solid Tin Plated Copper, 0.0126 Inch Diameter
- Pair Shield:** Aluminum/Polyester Tape, Aluminum Side Facing In, Color – Yellow
- Pair Jacket:** Polyester Tape
- Pair Diameter:** 0.055 x 0.095 Inches Nominal
- Pair Identification:** Pairs sequentially numbered on entire length of pair.

Final Assembly

- Core:** 2 Pairs (#7-8) Cabled Together
- Layer 1:** 6 Pairs (#1-6) Cabled Around Core
- 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:** 0.345 Inches Nominal
- Print Legend (White Ink):** "MADISON CABLE (UL) TYPE CL2 75°C 26 AWG
CSA AWM II A/B 75°C 30V FT4 TurboTwin™ 14G 102-0378 RoHS
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):** 54 ps/7 m Maximum
- Time Delay Skew (Between Pairs):** 300 ps/7 m Maximum
- Attenuation (SDD21)²:**

Frequency (GHz)	Attenuation (dB/7 m Nominal)
1.25	7.4
2.50	11.0
5.00	17.0
7.00	21.5
9.00	25.5
10.00	26.7
12.00	37.0
14.00	TBD

- Differential to Common Mode Conversion (SCD21):** 30 dB Nominal
- Conductor DC Resistance:** 0.040 Ohms/ft Nominal @ 20°C

² Tested/Functional to 14 GHz over a 7 meter length.

MECHANICAL CHARACTERISTICS

- Bend Radius (5 X OD):** 1.65 Inches minimum, tested in accordance with SFF 8417

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



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REVISION HISTORY

Rev	Date	Author	Description
1	11/16/10	HA	Initial Release
2	03/25/11	DC	Revised Drain Wire and Inner Shield
3	09/14/11	HA	Added Under Development Watermark
4	12/30/11	HA	Revised Electrical Characteristics
5	04/13/12	DC	Revised jacket wall/Diameter

Spec Number:	102-0378	Prepared By:	D.M. Card		
Part Number:	16KE2LF039	Reviewed By:	K. Nippani	M. Dupuis	
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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.