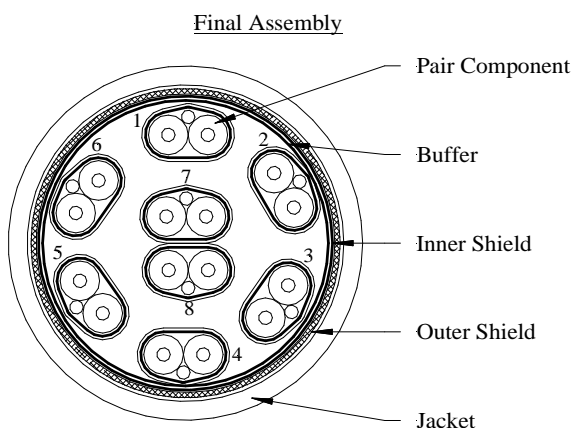
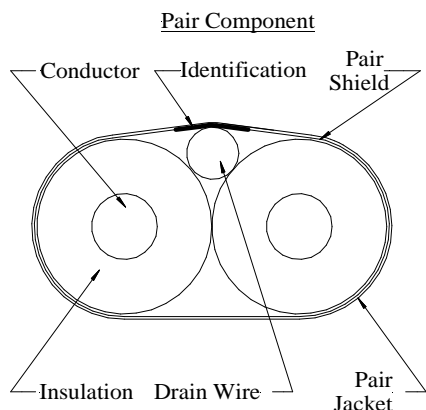


8 PAIR 30 AWG 14G TURBOTWIN™ CABLE

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: 30 AWG Solid Silver Plated Copper, 0.010 Inch Diameter
Insulation: 0.0095 Inches of Foam Polyolefin, 0.029 Inch Diameter, Color – Natural
Pair: 2 Singles Laid Flat and Parallel
Pair 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: 0.039 x 0.064 Inches Nominal
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: 0.025 Inches of Flexible PVC, Color – Black
Diameter: 0.245 Inches Nominal
Print Legend (White Ink): “MADISON CABLE (UL) TYPE CL2 75°C 30 AWG CSA AWM II A/B 75°C 30V FT4 TurboTwin™ 14G 102-0945 SUBSTANCE COMPLIANT 2011/65/EU {Date Code}”¹

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 in the 2nd 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): 33 ps/4 m Maximum
Time Delay Skew (Between Pair): 300 ps/4 m Maximum

Frequency (GHz)	SDD21 ²	
	Attenuation (dB/4 m Maximum)	Return Loss (dB Nominal)
1.25	6.6	9.8
2.50	9.3	8.8
5.00	14.7	7.5
7.00	18.8	TBD
9.00	24.0	TBD
10.00	25.5	TBD
12.00	TBD	TBD
14.00	TBD	TBD

Differential to Common Mode Conversion (SCD21)²: 30 dB Nominal
Conductor DC Resistance: 0.10 Ohms/ft Nominal @ 20°C

² Tested/Functional to 14 GHz

³ SDD11 is per the draft standard SFF-8431 Revision 3.3 and are subject to change.

MECHANICAL CHARACTERISTICS

Bend Radius (5 x OD): 1.2 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



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REVISION HISTORY

Rev	Date	Author	Description
1	05/13/11	HA	Initial Release
2	08/22/11	HA	Revised Inner Shield
3	01/04/12	HA	Revised Electricals
4	10/06/14	HA	Revised IL Value @ 1.25 GHz & Print Legend

Spec Number:	102-0945				
Part Number:	16KB2LF037				
Customer:		Prepared By:	H. Abusamra		Page
Customer #:		Reviewed By:	T. Grzysiewicz	A. Fan	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.