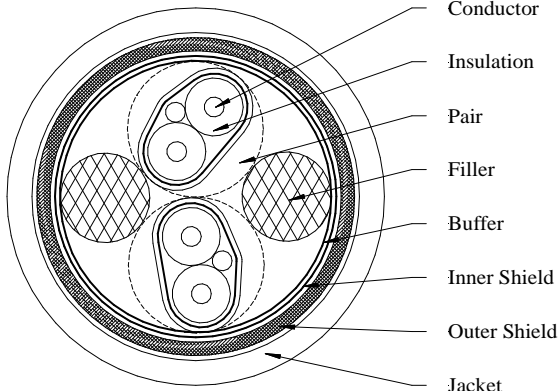


2 PAIR 30 AWG 10G INFINITWIST™ CABLE

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 TE CONNECTIVITY/MADISON CABLE



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

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 Twisted Together
Drain Wire: 30 AWG Solid Tin Plated Copper, 0.010 Inch Diameter
Pair Shield: Aluminum/Polyester Tape, Aluminum Side Facing In, 25% Overlap, Color – See Color Code Table
Pair Jacket: Polyester Tape
Pair Diameter: 0.062 Inches Nominal

Final Assembly

Core: 2 Pairs Cabled Together with Solid PVC Fillers
Buffer: Foam Polypropylene Tape, 50% Overlap
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: 0.191 Inches Nominal
Print Legend (White Ink): "MADISON CABLE (UL) TYPE CL2 75°C 30 AWG CSA AWM II A/B 75°C 30V FT4 InfiniTwist™ 10G 101-9222 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 the second week of 2006.



Madison Cable
 125 Goddard Memorial Drive
 Worcester, MA 01603 USA
 (508) 752-2884 (877) MADISON

COLOR CODE TABLE

Pair #	Pair Shield Color
1	Yellow
2	Blue

ELECTRICAL CHARACTERISTICS

Differential Impedance: 100 ± 5 Ohms @ TDR
Mutual Capacitance: 14 pF/ft Nominal
Time Delay: 1.39 ns/ft Nominal
Time Delay Skew (Within Pair): 50 ps/5.5 m Maximum
Attenuation (SDD21)²:

Frequency (GHz)	Attenuation (dB/5.5m Nominal)	Attenuation (dB/5.5m Maximum)
1.25	8.33	9.6
1.5	9.14	10.5
2.5	11.88	13.7
3.0	13.00	15.0
4.5	16.01	18.4
5.0	16.93	19.5
6.0	18.70	21.5
8.0	22.07	25.4
10.0	25.36	29.2

Differential to Common Mode Conversion (SCD21): 28 dB Nominal
Conductor DC Resistance: 0.10 Ohms/ft Nominal @ 20°C

² Tested/Functional to 10 GHz over a 5.5-meter length, where there are no resonant nulls greater than 6% from 10 MHz to 10 GHz.

SAFETY CERTIFICATION

UL Listing: Type CL2 as specified in Article 725 of the National Electrical Code
CSA Certification: AWM II A/B 75°C 30V FT4
RoHS II Material Compliance: In accordance with EU Directive 2011/65/EU for the Restriction of Hazardous Substances

REVISION HISTORY

1	10/21/09	RL	Initial Release
2	04/20/10	DC	Revised print legend, description, Jkt wall/OD
3	08/01/12	SJ	Revised Attenuation
4	03/25/15	HA	Revised Drain Wire and RoHS Statement

Spec Number: 101-9222

Part Number: 04KB3LF001

Customer:

Customer #:

Prepared By: H. Abusamra

Reviewed By: T. Grzysiewicz

A. Fan

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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.