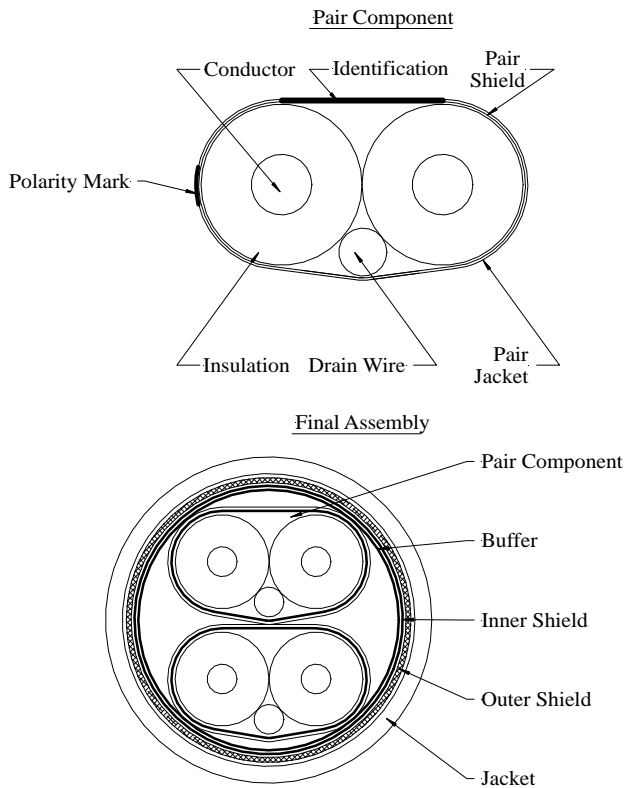


2 PAIR 28 AWG INFINIBAND TURBOTWIN™ CABLE

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 MADISON CABLE



CONSTRUCTION

Pair Component

Conductor: 28 AWG Solid Silver Plated Copper, 0.0126 Inch Diameter
Insulation: 0.012 Inches of Foam Polyolefin, 0.037 Inch Diameter, Color – Natural
Pair: 2 Singles Laid Flat and Parallel
Pair Drain Wire: 30 AWG Solid Silver Plated Copper, 0.010 Inch Diameter
Pair Shield: Aluminum/Polyester Tape, Aluminum Side Facing In, Color – See Color Code Table
Pair Jacket: Polyester Tape
Pair Diameter: 0.042 x 0.079 Inches Nominal
Pair Identification: Pairs sequentially numbered and polarity marked on entire length of pair.

Final Assembly

Core: 2 Pairs (#1-2) 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: 0.185 Inches Nominal
Print Legend (White Ink): "MADISON CABLE (UL) TYPE CL2 75°C 28 AWG TurboTwin™ RoHS COMPLIANT {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.

COLOR CODE

Pair #	Pair Shield Color
1	Green
2	Yellow

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): 120 ps/7 m Maximum
Time Delay Skew (Between Pairs): 500 ps/7 m Maximum
Attenuation: 10 dB/7 m Maximum @ 1.25 GHz
Near-End/Far-End Crosstalk²: 1% Maximum, Pulse Method, 100 ps rise-time (20-80%)
Eye Pattern:
Input: 1000 mVp-p, 2.5 Gbps, 100 ps rise time (20-80%), CJTPAT
Mask: 316 mVp-p x 300 ps
Length: 5 meters (longer lengths achievable when equalized)
Conductor DC Resistance: 0.066 Ohms/ft Nominal @ 20°C

² Measured as maximum deviation from zero to peak differential (Single Pulse method)

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



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Spec Number: 101-2458

Part Number: 04KD2LF003

Customer:

Customer #:

REVISION HISTORY

1	06/10/05	EP	Initial Release
2	10/26/05	EP	Added P/N
3	11/30/05	EP	Revised Legend
4	05/05/10	DC	Revised legend and added date code

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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.