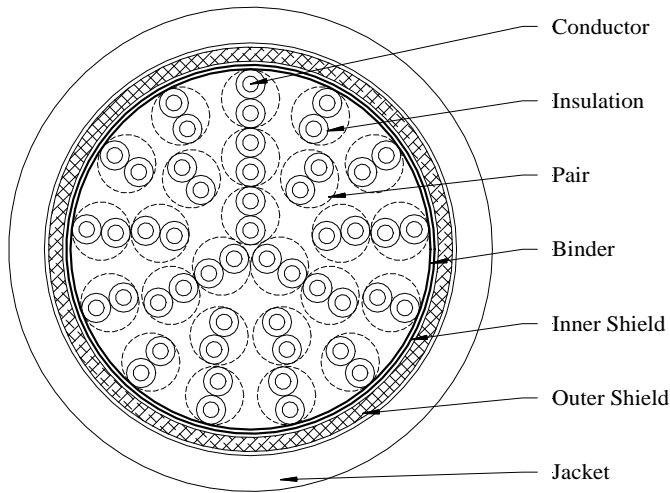


# 25 PAIR 24 AWG CABLE

## CUSTOMER PROPRIETARY

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:** 24 AWG Solid Tin Plated Copper, 0.0201 Inch [0.51 mm] Diameter

**Insulation:** 0.0065 Inches [0.165 mm] of Semi-Rigid PVC, 0.033 Inch [0.84 mm] Diameter

**Pair:** 2 Insulated Conductors Twisted Together, Lay Lengths Varied Between Pairs to Minimize Crosstalk

#### Final Assembly

**Core:** 3 Pairs (#1-3) Cabled Together

**Layer 1:** 9 Pairs (#4-12) Cabled Around Core

**Layer 2:** 13 Pairs (#13-25) Cabled Around Layer 1

**Binder:** Polyester Tape, 25% Overlap

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

**Outer Shield:** 36 AWG Tin Plated Copper Braid, 85% Coverage

**Jacket:** 0.027 Inches [0.66 mm] of PVC, Color – Apple Smoke Gray

**Diameter:** 0.380 ± 0.010 Inches [9.65 ± 0.25 mm]

**Print Legend (Black Ink):** "MADISON CABLE {Mfg. Location Code}<sup>1</sup> (UL) TYPE CL2 75°C 24 AWG CSA TYPE CMG 60°C RoHS COMPLIANT {Date Code}<sup>2</sup>"

<sup>1</sup> Mfg. Location Code if applicable

<sup>2</sup> 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 #	Conductor #1	Conductor #2
1	White/Blue	Blue/White
2	White/Orange	Orange/White
3	White/Green	Green/White
4	White/Brown	Brown/White
5	White/Gray	Gray/White
6	Red/Blue	Blue/Red
7	Red/Orange	Orange/Red
8	Red/Green	Green/Red
9	Red/Brown	Brown/Red
10	Red/Gray	Gray/Red
11	Black/Blue	Blue/Black
12	Black/Orange	Orange/Black
13	Black/Green	Green/Black
14	Black/Brown	Brown/Black
15	Black/Gray	Gray/Black
16	Yellow/Blue	Blue/Yellow
17	Yellow/Orange	Orange/Yellow
18	Yellow/Green	Green/Yellow
19	Yellow/Brown	Brown/Yellow
20	Yellow/Gray	Gray/Yellow
21	Violet/Blue	Blue/Violet
22	Violet/Orange	Orange/Violet
23	Violet/Green	Green/Violet
24	Violet/Brown	Brown/Violet
25	Violet/Gray	Gray/Violet

### ELECTRICAL CHARACTERISTICS

**Capacitance-to-Water:** 150 pF/ft [46 pF/m] Maximum @ 1 kHz

**Mutual Capacitance:** 35 pF/ft [11 pF/m] Nominal @ 1 kHz

**Single-Ended Capacitance:** 56 pF/ft [17 pF/m] Nominal @ 1 kHz

**Pair-to-Pair Capacitance Unbalance:** 160 pF/1000 ft [53 pF/100 m] Maximum @ 1 kHz

**Velocity of Propagation:** 60% Nominal

**Far-End Crosstalk:** 73 dB RMS Minimum @ 150 kHz, Based on 1000 ft [304.8 m]

**Dielectric Withstand:** 2500 Volts DC for 3 Seconds

**Conductor DC Resistance:** 28.6 Ohms/1000 ft [94 Ohms/km] Maximum @ 20°C

### SAFETY CERTIFICATION

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

**CSA Certification:** Type CMG

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

REVISION HISTORY			
1	01/21/05	EP	Initial Release
2	11/08/05	EP	Revised Print Legend
3	06/30/11	HA	Added Metric Units & Date Code; Revised Print



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**Spec Number:** 101-2068

**Part Number:** 50RFKLF002

**Customer:** Amphenol Interconnect

**Customer #:** 484750001 (For Reference Only)

**Prepared By:** H. Abusamra

**Reviewed By:** K. Nippani

M. Dupuis

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.