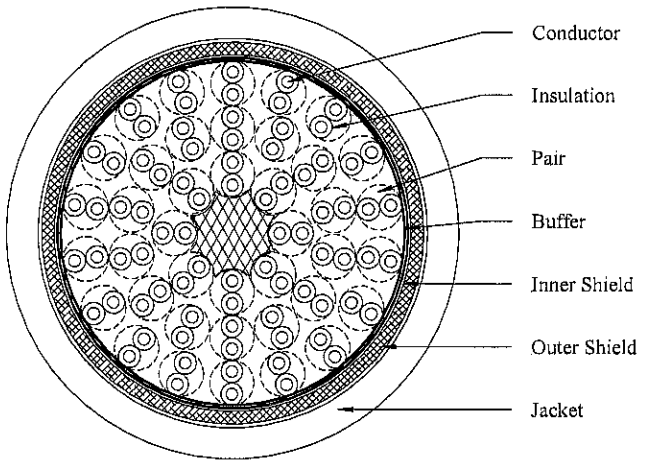
40 Pair 28 AWG Cable



10	Tan/Brown-Brown/Tan	30	Pink/Gray-Gray/Pink
11	Tan/Pink-Pink/Tan	31	Orange/Yellow-Yellow/Orange
12	Tan/Orange-Orange/Tan	32	Orange/Green-Green/Orange
13	Tan/Yellow-Yellow/Tan	33	Orange/Blue-Blue/Orange
14	Tan/Green-Green/Tan	34	Orange/Violet-Violet/Orange
15	Tan/Blue-Blue/Tan	35	Orange/Gray-Gray/Orange
16	Tan/Violet-Violet/Tan	36	Yellow/Green-Green/Yellow
17	Tan/Gray-Gray/Tan	37	Yellow/Blue-Blue/Yellow
18	Brown/Pink-Pink/Brown	38	Yellow/Violet-Violet/Yellow
19	Brown/Orange-Orange/Brown	39	Yellow/Gray-Gray/Yellow
20	Brown/Yellow-Yellow/Brown	40	Green/Blue-Blue/Green

Construction

Pair Component
Conductor: 28 AWG 7/36 Tin Plated Copper, 0.015 Inch Diameter
Insulation: 0.007 Inches of Polypropylene, 0.029 Inch Diameter
Pair: 2 Insulated Conductors Twisted Together

Final Assembly
Core: Fibrillated Polypropylene Filler
Layer 1: 8 Pairs (#1-8) Cabled Around Core
Layer 2: 14 Pairs (#9-22) Cabled Around Layer 1
Layer 3: 18 Pairs (#23-40) Cabled Around Layer 2
Buffer: Foam Polypropylene 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: 0.032 Inches of XPbT, Color – Black
Diameter: 0.455 Inches Nominal
Print Legend (White Ink): "TYPE CL2 75°C 28 AWG (UL) MADISON CABLE CSA AWM II A/B 75°C 300V FT4 RoHS COMPLIANT"

Color Code

Pair #	Cond #1 – Cond #2	Pair #	Cond #1 – Cond #2
1	White/Tan-Tan/White	21	Brown/Green-Green/Brown
2	White/Brown-Brown-White	22	Brown/Blue-Blue/Brown
3	White/Pink-Pink/White	23	Brown/Violet-Violet/Brown
4	White/Orange-Orange/White	24	Brown/Gray-Gray/Brown
5	White/Yellow-Yellow/White	25	Pink/Orange-Orange/Pink
6	White/Green-Green/White	26	Pink/Yellow-Yellow/Pink
7	White/Blue-Blue/White	27	Pink/Green-Green/Pink
8	White/Violet-Violet/White	28	Pink/Blue-Blue/Pink
9	White/Gray-Gray/White	29	Pink/Violet-Violet/Pink

Electrical Characteristics

Impedance:
Differential: 105 ± 10 Ohms @ TDR
Single-Ended: 68 ± 10 Ohms @ TDR
Capacitance:
Mutual: 16 pF/ft Maximum
Single-Ended: 25 pF/ft Maximum
Time Delay: 1.60 ns/ft Maximum
Time Delay Skew: 0.040 ns/ft Maximum
Differential Attenuation: 0.079 dB/ft Maximum @ 50 MHz
Conductor DC Resistance: 0.070 Ohms/ft Maximum @ 20°C

Safety Certification

UL Listing: Type CL2 as specified in Article 725 of the National Electrical Code
CSA Certification: AWM II A/B 75°C 300 Volts FT4
RoHS Compliance: In Accordance to European Directive 2002/95/EC, Issue 13.2.2003

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Revision History

1	11/16/05	DC	Initial Release
2	08/15/06	HA	Revised Electricals
3	12/21/06	DC	Revised Impedance tolerance

Spec Number:	**101-3651**			
Part Number:	**80SDKLF025**			
Customer:	**AMP**	**Prepared By:**	D.M. Card	
Customer #:	**750114-1 (For Reference Only)**	**Reviewed By:**	B. Harvie	B. Morissette

Form AP-03A Issue 8