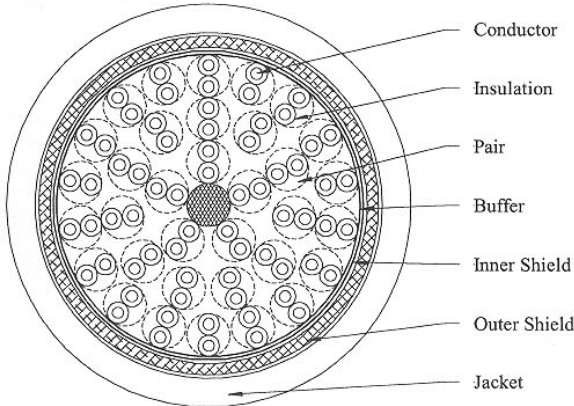


## 34 PAIR 30 AWG NON-HALOGEN UNIVERSAL SCSI CABLE



### CONSTRUCTION

**Pair Component**

**Conductor:** 30 AWG 7/38 Tin Plated Copper, 0.012 Inch Diameter  
**Insulation:** 0.007 Inches of Foam Polyolefin, 0.026 Inch Diameter  
**Pair:** 2 Insulated Conductors Twisted Together

**Final Assembly**

**Core:** Filler  
**Layer 1:** 5 Pairs (#1-5) Cabled Around Core  
**Layer 2:** 11 Pairs (#6-16) Cabled Around Layer 1  
**Layer 3:** 18 Pairs (#17-34) Cabled Around Layer 2  
**Buffer:** Foam Polypropylene 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 Non-Halogen Thermoplastic, Color - Black  
**Diameter:** 0.385 ± 0.010 Inches  
**Print Legend:** MADISON CABLE CORP. NON-HALOGEN Universal™ SCSI"

### COLOR CODE

Pair #	Cond #1 – Cond #2	Pair #	Cond #1 – Cond #2
1	White/Tan-Tan/White	18	Brown/Pink-Pink/Brown
2	White/Brown-Brown-White	19	Brown/Orange-Orange/Brown
3	White/Pink-Pink/White	20	Brown/Yellow-Yellow/Brown
4	White/Orange-Orange/White	21	Brown/Green-Green/Brown
5	White/Yellow-Yellow/White	22	Brown/Blue-Blue/Brown
6	White/Green-Green/White	23	Brown/Violet-Violet/Brown
7	White/Blue-Blue/White	24	Brown/Gray-Gray/Brown
8	White/Violet-Violet/White	25	Pink/Orange-Orange/Pink
9	White/Gray-Gray/White	26	Pink/Yellow-Yellow/Pink
10	Tan/Brown-Brown/Tan	27	Pink/Green-Green/Pink
11	Tan/Pink-Pink/Tan	28	Pink/Blue-Blue/Pink

12	Tan/Orange-Orange/Tan	29	Pink/Violet-Violet/Pink
13	Tan/Yellow-Yellow/Tan	30	Pink/Gray-Gray/Pink
14	Tan/Green-Green/Tan	31	Orange/Yellow-Yellow/Orange
15	Tan/Blue-Blue/Tan	32	Orange/Green-Green/Orange
16	Tan/Violet-Violet/Tan	33	Orange/Blue-Blue/Orange
17	Tan/Gray-Gray/Tan	34	Orange/Violet-Violet/Orange

### ELECTRICAL CHARACTERISTICS

**Impedance:**

**Differential:** 125 ± 10 Ohms @ TDR  
**Single-Ended<sup>1</sup>:** 90 ± 6 Ohms @ TDR

**Capacitance:**

**Mutual:** 14 pF/ft Maximum @ 100 kHz and 1 MHz  
**Single-Ended:** 20 pF/ft Maximum @ 100 kHz and 1 MHz

**Velocity of Propagation:** 71% Nominal

**Time Delay:** 1.50 ns/ft Maximum

**Time Delay Skew (Between Pairs):** 0.025 ns/ft Maximum

**Attenuation:**

**Differential:** 0.022 dB/ft Nominal @ 5 MHz  
 0.031 dB/ft Nominal @ 10 MHz  
 0.044 dB/ft Nominal @ 20 MHz  
 0.063 dB/ft Nominal @ 40 MHz  
 0.090 dB/ft Nominal @ 80 MHz  
 0.129 dB/ft Nominal @ 160 MHz  
 0.180 dB/ft Maximum @ 200 MHz  
**Single-Ended:** 0.021 dB/ft Nominal @ 5 MHz  
 0.033 dB/ft Nominal @ 10 MHz  
 0.050 dB/ft Nominal @ 20 MHz

**Near-End Crosstalk:** 3% Maximum (Sum of REQ/ACK to all pairs at the outer layer plus REQ/ACK), Tested on a 12 meter sample

**Dielectric Withstand:** 500 Volts DC for 3 sec.

**Conductor DC Resistance:** 0.10 Ohms/ft Nominal @ 20°C

<sup>1</sup> Pairs (#1-5) only. All other pairs are 90 +6/-10 Ohms.

### INDUSTRY STANDARDS

**SCSI Parallel Interconnect-3 (SPI-3):** Meets the Requirements for Fast 10, Fast 20, Fast 40 and Fast 80 SCSI. Can be used for Differential (HVD & LVD) and Single-Ended Systems, as applicable.

**SCSI Parallel Interconnect-4 (SPI-4) Draft:** Meets the Requirements for Fast 10, Fast 20, Fast 40, Fast 80 and Fast 160 (Ultra 320) SCSI. Both Differential (HVD&LVD) and Single Ended Systems as Applicable.

### PHYSICAL CHARACTERISTICS

**Storage Temperature:** -40°C to +80°C



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**Spec Number:** 100-5282

**Part Number:** 68KKB00062

**Customer:**

**Customer #:**

### REVISION HISTORY

1	06/28/01	RL	Initial release
2	08/27/01	EP	Added P/N, Legend, Temperature Rating et al.

<b>Prepared By:</b>	E. Piekieniak	<b>EP</b>	<b>8/27/01</b>	<b>Page</b>
<b>Reviewed By:</b>	J. Fan	<b>JF</b>	<b>8/27/01</b>	1 of 1