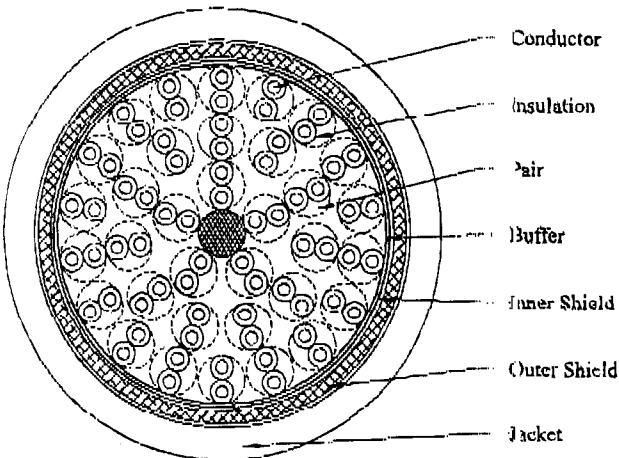


34 PAIR 30 AWG NON-HALOGEN UNIVERSAL SCS1 CABLE



CONSTRUCTION

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-Ended¹: 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

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

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™ SCS1™

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

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

REVISION HISTORY

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



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Spec Number: **100-5282**
Part Number: **68KBC00062**
Customer: _____
Customer #: _____

Prepared By: **E. Pickielniak** EP 8/27/01 Page _____
Reviewed By: **J. Fan** JF 8/27/01 Page _____