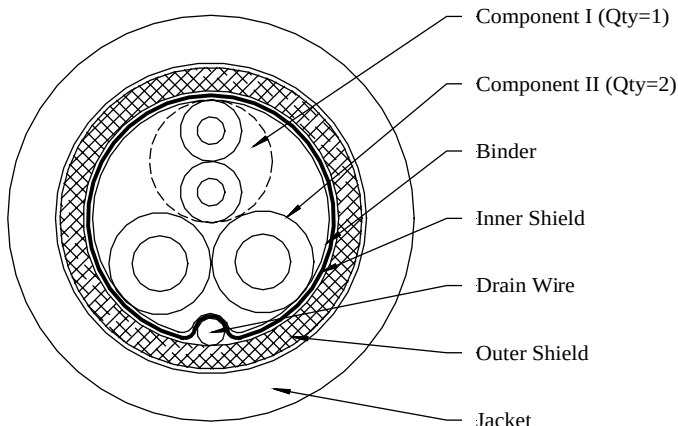


1 PAIR 28 AWG + 2 CONDUCTOR 28 AWG SHIELDED USB CABLE



CONSTRUCTION

Component I - 28 AWG Pair

Conductor: 28 AWG 7/36 Tin Plated Copper, 0.015 Inch Diameter

Insulation: 0.0085 Inches of Polypropylene, 0.032 Inch Diameter

Pair: 2 Insulated Conductors Twisted Together

Component II - 28 AWG Singles

Conductor: 28 AWG 7/36 Tin Plated Copper, 0.015 Inch Diameter

Insulation: 0.0085 Inches of Semi-Rigid PVC, 0.032 Inch Diameter

Final Assembly

Core: 1 Component I (#1) and 2 Component II (#2-3) Cabled Together

Binder: Polyester Tape, 25% Overlap

Inner Shield: Aluminum/Polyester Tape, Aluminum Side Facing Out, 50% Overlap

Drain Wire: 28 AWG 7/36 Tin Plated Copper, 0.015 Inch Diameter

Outer Shield: 36 AWG Tin Plated Copper Braid, 65% Minimum Coverage

Jacket: 0.025 Inches of Flexible PVC, Color – Frost White

Diameter: 0.170 Inches Nominal, 0.210 Inches Maximum

Print Legend: "TYPE CM 28 AWG (UL) MADISON CABLE CORP. CSA TYPE CMH"

COLOR CODE

Component #	Component	Conductor #1	Conductor #2
1	I	Green	White
2	II	Black	
3	II	Red	

ELECTRICAL CHARACTERISTICS

Component I – 28 AWG Pair

Differential Impedance: 90 Ohms $\pm$ 15% @ TDR

Time Delay: 1.59 ns/ft Maximum

Time Delay Skew: 25 ps/ft Maximum

Attenuation:

Frequency (MHz)	Attenuation (dB/100 ft Maximum)
0.064	0.48
0.256	0.67
0.512	0.82
0.772	0.94
1	1.20
4	2.40
8	3.50
12	4.10
24	5.80
48	8.20
96	11.60

Dielectric Withstanding Voltage: 500 VAC For 1 Minute

Insulation Resistance: 15,000 Megohm-ft Minimum @ 20°C

Conductor DC Resistance: 0.070 Ohms/ft Maximum @ 20°C

Component II – 28 AWG Singles

Dielectric Withstanding Voltage: 500 VAC For 1 Minute

Insulation Resistance: 15,000 Megohm-ft Minimum @ 20°C

Conductor DC Resistance: 0.070 Ohms/ft Maximum @ 20°C

SAFETY CERTIFICATION

UL Listing: Type CM as specified in Article 800 of the National Electrical Code

CSA Certification: Type CMH



MADISON Cable

tyco
Electronics

125 Goddard Memorial Drive • Worcester, MA 01603 USA
Tel: (508) 752-2884 Toll-Free: (877) MADISON Fax: (508) 752-4230

Spec Number: 12065

Part Number: 04ZDS00003

Customer:

Customer #:

REVISION HISTORY

1	10/25/95	BH	Initial Release
2	10/12/98	KA	Added jacket color and P/N
3	10/14/98	KA	Revised drawing
4	12/09/99	KA	Revised electricals
5	07/19/00	KA	Revised attenuation values

Prepared By: K. Arsenault

KA

7/19/00

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Reviewed By: A. F

AF

7/19/00

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