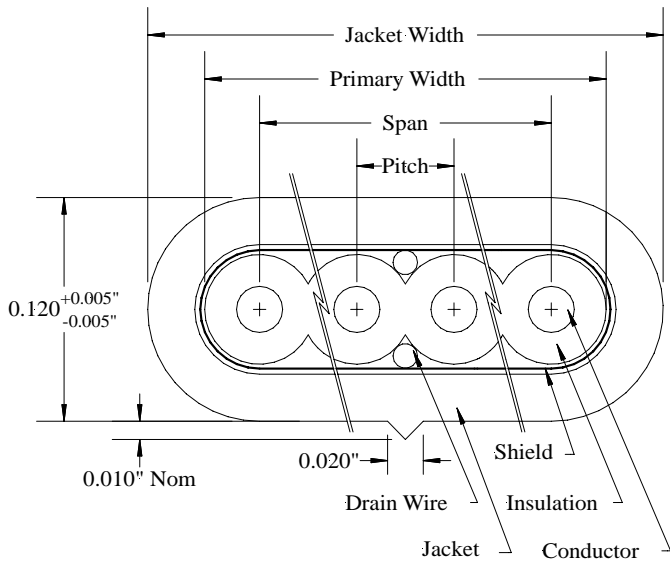


# MULTI-CONDUCTOR 24 AWG .050" CENTER SDL CABLE



### CONSTRUCTION

#### Single Component

**Conductor:** 24 AWG 7/32 Tin Plated Copper, 0.024 Inch Diameter  
**Pitch:** 0.050 ± 0.003 Inches

#### Final Assembly

**Core<sup>1</sup>:** Multi-conductors Laid Flat and Parallel  
**Insulation:** 0.012 Inches of XPbT, 0.048 Inch Minor Diameter  
**Drain Wires (2):** 28 AWG 7/36 Tin Plated Copper, 0.015 Inch Diameter  
**Shield:** Aluminum/Polyester/Aluminum Tape, 25% Overlap, Applied Longitudinally  
**Jacket:** 0.032 Inches of XPbT, Color – See Table 2  
**Minor Diameter:** 0.120 ± 0.005 Inches  
**Major Diameter:** See Jacket Width in Table 1  
**Print Legend (Light Gray Ink):** TYPE CL2 90°C 24 AWG (UL) MADISON CABLE CSA AWM II A/B 90°C 300V FT1 RoHS COMPLIANT"

<sup>1</sup> Drawing shows only a 4-conductor construction as an example.

### TABLE 1 – P/N & CONSTRUCTION

Madison P/N	No. of Cond	Dimensions		
		Span (Inches)	Primary Width (Inches)	Jacket Width (Inches)
04WFZLF005	4	0.150±0.005	0.200±0.005	0.275+0.005/-0.010
04WFZLF006	4	0.150±0.005	0.200±0.005	0.275+0.005/-0.010
06WFZLF003	6	0.250±0.006	0.300±0.006	0.375+0.005/-0.010
06WFZLF007	6	0.250±0.006	0.300±0.006	0.375+0.005/-0.010
08WFZLF003	8	0.350±0.007	0.400±0.007	0.475+0.005/-0.010
08WFZLF006	8	0.350±0.007	0.400±0.007	0.475+0.005/-0.010
16WFZLF003	16	0.750±0.011	0.800±0.011	0.875+0.005/-0.010

16WFZLF006	16	0.750±0.011	0.800±0.011	0.875+0.005/-0.010
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### TABLE 2 – P/N & JACKET COLOR

Madison P/N	Jacket Color
04WFZLF005	Black
04WFZLF006	Gray
06WFZLF003	Black
06WFZLF007	Gray
08WFZLF003	Black
08WFZLF006	Gray
16WFZLF003	Black
16WFZLF006	Gray

### ELECTRICAL CHARACTERISTICS

**Impedance (Signal-to-Ground):** 39 Ohms Nominal @ 1 MHz  
**Capacitance:** 60 pF/ft Maximum @ 1 MHz  
**Time Delay:** 2.0 ns/ft Maximum  
**Insulation Resistance:** 1000 Megohms-10 ft @ 20°C  
**Shield Effectiveness:** 30 dB Minimum @ from 30 to 1000 MHz  
**Dielectric Withstand:** 1500 Volts RMS  
**Crosstalk:**  
     **Near-End:** 1% Maximum Peak-to-Peak @ 2 ns Rise-Time, 10-90%, on a 10 ft sample  
     **Far-End:** 4% Maximum Peak-to-Peak @ 2 ns Rise-Time, 10-90%, on a 10 ft sample  
**Conductor DC Resistance:** 0.024 Ohms/ft Nominal @ 20°C

### SAFETY CERTIFICATION

**UL Listing:** Type CL2 as specified in Article 725 of the National Electrical Code  
**CSA Certification:** AWM II A/B 90°C 300 Volts FT1  
**RoHS Compliance:** In Accordance to European Directive 2002/95/EC, Issue 13.2.2003

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### REVISION HISTORY

Rev	Date	By	Description
1	06/09/05	EP	Initial Release
2	11/30/05	EP	Revised Legend

<b>Spec Number:</b>	101-2676
<b>Part Number:</b>	See Table 1
<b>Customer:</b>	
<b>Customer #:</b>	

<b>Prepared By:</b>	E. Piekelniaik	<b>Page</b>
<b>Reviewed By:</b>	K. Arsenault	N. Allen
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