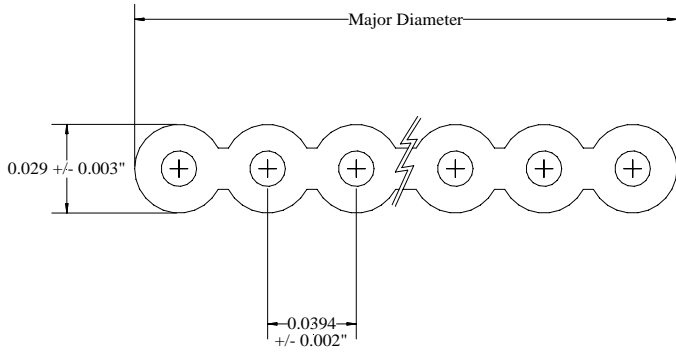


# MULTI-CONDUCTOR 28 AWG 1 MM CENTER FLAT CABLE



## ELECTRICAL CHARACTERISTICS<sup>2</sup>

**Impedance:** 100 Ohms Nominal @ TDR  
**Capacitance:** 12 pF/ft [39 pF/m] Nominal  
**Inductance:** 0.12 µH Nominal  
**Near-End Crosstalk:** 2.8% Nominal, 5 ns Rise-Time  
**Far-End Crosstalk:** 2.5% Nominal, 5 ns Rise-Time  
**Time Delay:** 1.21 ns/ft Nominal  
**Insulation Resistance:** 500 Megohms-1000 ft  
**Dielectric Withstand:** 2000 Volts RMS  
**Conductor DC Resistance:** 0.062 Ohms/ft Maximum @ 20°C

<sup>2</sup>Electricals measured using G-S-G, all grounds commoned.

## CONSTRUCTION

### Single Component

**Conductor:** 28 AWG 7/36 Silver Plated Copper, 0.015 Inch [0.38 mm] Diameter

### Final Assembly

**Core:** Multi-conductors Laid Flat and Parallel

**Insulation<sup>1</sup>:** 0.007 Inches [0.19 mm] of FEP, Color – Blue

**Minor Diameter:** 0.029 ± 0.003 Inches [0.74 ± 0.08 mm]

**Major Diameter:** See Table 1

**Identification:** None

<sup>1</sup> Flat construction with common overall insulation.

## SAFETY CERTIFICATION

**UL Recognized:** AWM Style 20424 200°C 300 Volts



**ROHS Compliance:** In Accordance to European Directive 2002/95/EC, Issue 13.2.2003

**TABLE 1 – P/N & CONSTRUCTION**

Madison Part Number	Tyco Part Number	No. of Conductors	Major Diameter (Inches)
102DY00017	0-1284101-1	10	0.394
162DY00017	4-1899454-2	16	0.630
202DY00016	0-1284102-1	20	0.788
302DY00013	3-0956233-0	30	1.182
402DY00017	4-0956233-0	40	1.576
442DY00011	0-1284324-1	44	1.693
502DY00015	5-0956233-0	50	1.970
802DY00001	0-1284106-1	80	3.152

## REVISION HISTORY

2	10/15/01	EP	Added Identification Marking
3	10/30/01	EP	Removed Identification Marking
4	11/30/01	EP	Revised Tyco P/N for 40 & 50 pos.
5	12/21/01	EP	Added P/N for 44 pos.
6	09/24/04	EP	Revised P/N's
7	07/21/08	RL	Added 16/C count


  
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**Spec Number:** 100-5109

**Part Number:** See Table 1

**Customer:**

**Customer #:**

**Prepared By:** R. Lemos

**Reviewed By:** K. Arsenault

B. Morissette

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Users should evaluate the suitability of this product for their application. Contact factory for latest revision of specification. Tyco Electronics reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to the Buyer.