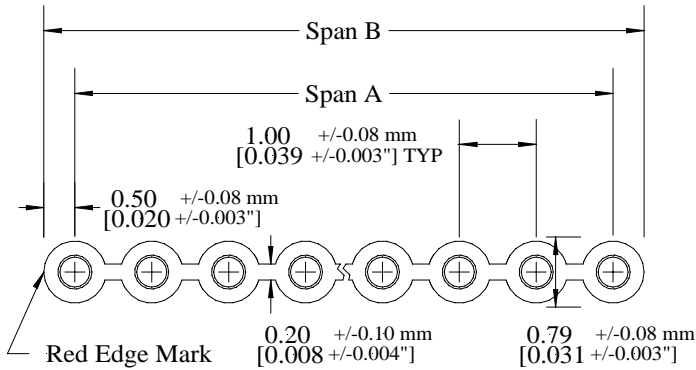


MULTI-CONDUCTOR 28 AWG 1 MM (0.0394") CENTER FLAT/RIBBON CABLE

Flat Cable Cross-Section



CONSTRUCTION

Single Component

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

Final Assembly

Core: Singles Laid Flat and Parallel (See Table 1)

Insulation/Jacket: 0.008 Inches Nominal of PVC, Color - Gray

Dimensions: See Table 1 and Cross-Sectional Drawing

Identification: Polarity Edge Mark shall cover at minimum the edge of cable to centerline of the first conductor and shall not exceed the centerline of the third conductor top and bottom, Color - Red

Print Legend: "AWM STYLE 2678 105°C 150V VW-1 MADISON CABLE (A02) CSA AWM I A 105°C 150V FT1"

TABLE 1

# of Cond	Tyco P/N		Dimensions (mm [Inches])	
	100 ft Putup ¹	500 ft Putup ²	Span A	Span B
6	1-57051-7	0-57051-1	5.00 ± 0.20 [0.197 ± 0.008]	6.00 ± 0.20 [0.236 ± 0.008]
8	1-57051-8	0-57051-2	7.00 ± 0.20 [0.276 ± 0.008]	8.00 ± 0.20 [0.315 ± 0.008]
10	1-57051-9	0-57051-3	9.00 ± 0.20 [0.354 ± 0.008]	10.00 ± 0.20 [0.395 ± 0.008]
12	5-57051-2	5-57051-3	11.00 ± 0.20 [0.433 ± 0.008]	12.00 ± 0.20 [0.472 ± 0.008]
14	2-57051-0	0-57051-4	13.00 ± 0.20 [0.512 ± 0.008]	14.00 ± 0.20 [0.551 ± 0.008]
16	2-57051-1	0-57051-5	15.00 ± 0.20 [0.591 ± 0.008]	16.00 ± 0.20 [0.630 ± 0.008]
20	2-57051-2	0-57051-6	19.00 ± 0.20 [0.748 ± 0.008]	20.00 ± 0.20 [0.787 ± 0.008]
22	TBD	5-57051-1	21.00 ± 0.20 [0.827 ± 0.008]	22.00 ± 0.20 [0.866 ± 0.008]
24	2-57051-3	0-57051-7	23.00 ± 0.20 [0.906 ± 0.008]	24.00 ± 0.20 [0.945 ± 0.008]

26	2-57051-4	0-57051-8	25.00 ± 0.20 [0.984 ± 0.008]	26.00 ± 0.20 [1.024 ± 0.008]
30	2-57051-5	0-57051-9	29.00 ± 0.30 [1.142 ± 0.012]	30.00 ± 0.30 [1.181 ± 0.012]
34	2-57051-6	1-57051-0	33.00 ± 0.30 [1.299 ± 0.012]	34.00 ± 0.30 [1.339 ± 0.012]
40	2-57051-7	1-57051-1	39.00 ± 0.30 [1.535 ± 0.012]	40.00 ± 0.30 [1.575 ± 0.012]
44	2-57051-8	1-57051-2	43.00 ± 0.30 [1.693 ± 0.012]	44.00 ± 0.30 [1.732 ± 0.012]
50	2-57051-9	1-57051-3	49.00 ± 0.30 [1.929 ± 0.012]	50.00 ± 0.30 [1.969 ± 0.012]
60	3-57051-0	1-57051-4	59.00 ± 0.30 [2.323 ± 0.012]	60.00 ± 0.30 [2.362 ± 0.012]
64	3-57051-1	1-57051-5	63.00 ± 0.35 [2.480 ± 0.014]	64.00 ± 0.35 [2.520 ± 0.014]
68	3-57051-2	1-57051-6	67.00 ± 0.35 [2.638 ± 0.014]	68.00 ± 0.35 [2.678 ± 0.014]

PITCH ACCUMULATION CHART³

Number of Conductors	Accumulation Range
0 - 29	± 0.008"
30 - 60	± 0.012"
61 +	± 0.014"

- ¹ Length per Reel: 100 +6/-0 ft; May Contain Separate Lengths; 20 ft Minimum per Length, Two Lengths Maximum per Reel
- ² Length per Reel: 500 + 12/-0 ft; May Contain Separate Lengths; 20 ft Minimum per Length, Two Lengths Maximum per Reel
- ³ Pitch Accumulation is defined as the maximum difference between the actual accumulated pitch and the accumulated specification pitch for any group of continuous conductors.

ELECTRICAL CHARACTERISTICS⁴

Impedance: 90 Ohms Nominal @ TDR

Capacitance: 16.5 pF/ft Nominal @ 1 MHz

Time Delay: 1.47 ns/ft Nominal

Crosstalk (5 ns rise-time on 10 ft sample):

Near-End: 4.0% Maximum

Far-End: 6.0% Maximum

Conductor DC Resistance: 0.061 Ohms/ft Nominal @ 20°C

⁴ Electricals measured using G-S-G, all grounds commoned.

SAFETY CERTIFICATION

UL Recognized: AWM Style 2678 105°C 150 Volts VW-1

CSA Certification: AWM I A 105°C 150 Volts FT1

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

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

REVISION HISTORY

1	08/12/02	EP	Initial Design
2	08/19/04	EP	Revised P/N Table
3	06/11/08	DC	Revised Mfg Location Code; Removed Footnote

Spec Number:	100-7096	Prepared By:	D.M. Card	Page
Part Number:	See Table 1	Reviewed By:	T. Grzysiewicz	B. Morissette
Customer:				1 of 1
Customer #:				

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.