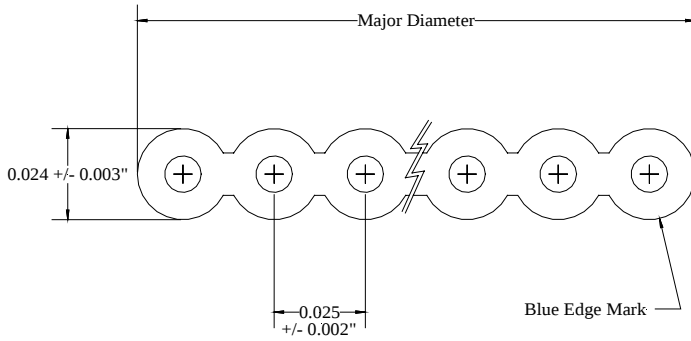


# MULTI-CONDUCTOR 30 AWG 0.025" CENTER FLAT CABLE



## CONSTRUCTION

### Single Component

**Conductor:** 30 AWG 7/38 Silver Plated Copper, 0.012 Inch Diameter

### Final Assembly

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

**Insulation<sup>1</sup>:** 0.006 Inches of FEP, Color – Opaque

**Minor Diameter:** 0.024 ± 0.003 Inches

**Major Diameter:** See Table 1

**Identification:** Polarity Edge Mark shall cover a minimum of one end conductor,  
Color – Dark Blue

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

**TABLE 1 – P/N & CONSTRUCTION**

| Madison Part Number | Tyco Part Number | No. of Conductors | Major Diameter (Inches) |
|---------------------|------------------|-------------------|-------------------------|
| 102BY00001          | 0-1284058-1      | 10                | 0.250                   |
| 122BY00001          | 0-1284535-1      | 12                | 0.300                   |
| 162BY00001          | 0-1284059-1      | 16                | 0.400                   |
| 172BY00001          | 0-1739003-1      | 17                | 0.425                   |
| 202BY00010          | 0-1283894-1      | 20                | 0.500                   |
| 242BY00002          | 0-1284060-1      | 24                | 0.600                   |
| 262BY00002          | 0-1284403-1      | 26                | 0.650                   |
| 302BY00001          | 0-1284061-1      | 30                | 0.750                   |
| 342BY00001          | 0-1284062-1      | 34                | 0.850                   |

|            |             |     |       |
|------------|-------------|-----|-------|
| 362BY00001 | 0-1284063-1 | 36  | 0.900 |
| 402BY00010 | 0-1284064-1 | 40  | 1.000 |
| 442BY00001 | 0-1284065-1 | 44  | 1.100 |
| 502BY00011 | 5-1219763-0 | 50  | 1.250 |
| 602BY00001 | 0-1284066-1 | 60  | 1.500 |
| 642BY00001 | 0-1284067-1 | 64  | 1.600 |
| 682BY00011 | 0-1283896-1 | 68  | 1.700 |
| 802BY00011 | 0-1284068-1 | 80  | 2.000 |
| D02BY00001 | 0-1283897-1 | 100 | 2.500 |
| DT2BY00001 | 0-1284069-1 | 120 | 3.000 |

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

**Impedance:** 85 Ohms Nominal @ TDR

**Capacitance:** 15.5 pF/ft Nominal

**Inductance:** 0.11 µH Nominal

**Near-End Crosstalk:** 2.5% Nominal, 5 ns Rise-Time

**Far-End Crosstalk:** 2.1% Nominal, 5 ns Rise-Time

**Time Delay:** 1.30 ns/ft Nominal

**Insulation Resistance:** 500 Megohms-1000 ft

**Dielectric Withstand:** 2000 Volts Rms

**Conductor DC Resistance:** 0.097 Ohms/ft Maximum @ 20°C

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

## SAFETY CERTIFICATION

**UL Recognized:** AWM Style 20726 150°C 150 Volts

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



**MADISON Cable**

**tyco**  
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**Spec Number:** 100-4428

**Part Number:** See Table 1

**Customer:**

**Customer #:**

## REVISION HISTORY

|   |          |    |                                  |
|---|----------|----|----------------------------------|
| 4 | 06/08/01 | EP | Added Madison & Tyco P/N's       |
| 5 | 03/13/02 | EP | Added 26 Position P/N            |
| 6 | 04/11/02 | RL | Revised Identification           |
| 7 | 08/05/02 | EP | Added 12 Position P/N            |
| 8 | 08/06/03 | HA | Added 17 Position P/N to Table 1 |
| 9 | 09/24/04 | EP | Revised P/N's                    |

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