# Series 100 thru 111
# DIP Jumpers

## FEATURES

- Wide Array of DIP Jumper Configurations and Wiring Possibilities
- Reliable, Electronically-tested Solder Connections
- Protective Covers Ultrasonically-welded with Strain Relief
- Easy Identification and Tracing with 10-color Cable

## GENERAL SPECIFICATIONS

- **HEADER BODY AND COVER:** black UL 94V-0 4/6 Nylon
- **HEADER PINS:** Brass 1/2-hard
- **STANDARD PIN PLATING:** 10µ [0.25µ] min. Au per MIL-G-45204 over 50µ [1.27µ] min. Ni per QQ-N-290
- **OPTIONAL PLATING:** 200µ [5.08µ] min. matte Sn per ASTM B545-97(2004)e1 over 50µ [1.27mm] min. Ni per QQ-N-290; **–OR–** 200µ [5.08µ] 90/10 Sn/Pb per MIL-T-10727 Type I over 50µ [1.27µ] min. Ni per QQ-N-290
- **CABLE INSULATION:** UL style 2697 Polyvinyl Chloride (PVC)
- **CABLE LAMINATE:** clear PVC, self-extinguishing*
- **0.050 [1.27] PITCH CONDUCTORS:** 28-AWG, 7/36-strand, tinned Cu per ASTM B 33
- **0.039 [0.99] PITCH CONDUCTORS:** 26-AWG, 7/34-strand)
- **CABLE CURRENT RATING:** 1 amp at 10°C [50°F] above ambient
- **CABLE VOLTAGE RATING:** 300V
- **CABLE TEMPERATURE RATING:** 176°F [80°C]
- **CABLE CAPACITANCE:** 13.0pF/ft. [42.7pF/meter] nominal at 1MHz*
- **CROSSTALK:** 10-ft sample, 5ns rise time with 2 lines driven; near end 4.7%; far end 4.3% nominal*
- **PROPAGATION DELAY:** 1.5ns/ft. [4.9ns/meter] nominal*
- **INSULATION RESISTANCE:** 1010Ω (10 ft. [3 meters] min.)

## ORDERING INFORMATION

**XX-XXXX-XXX XXX**

- **Optional Header Pin Plating**
  - T = Sn
  - TL = Sn/Pb
  - TW = Twisted Pair Cable
  - ST = Stripped, Sn-dipped (106-111 Series)
- **Jumper Series**
- **Cable Length** (inches)
  - 2" = 002 (min.) [50.88]
  - 2.5" = 002.5
- **No. of Conductors** (see Table)

## MOUNTING CONSIDERATIONS

- **SUGGESTED PCB HOLE SIZE:** 0.033 ±0.002 [0.86 ±0.05] dia.
  * Applies to 0.050 [1.27] Pitch Cable Only

### NUMBER OF CONDUCTORS

| Available Sizes | Centers "C" | Dim. "D" |
|---|---|---|
| 4 thru 20 | 0.300 [7.62] | 0.395 [10.03] |
| 22 | 0.400 [10.16] | 0.495 [12.57] |
| 24, 28, 40 | 0.600 [15.24] | 0.695 [17.65] |

### SINGLE-END DIP JUMPER WIRE LIST

| Series 106, 108, 110 | | Series 107, 109, 111 | |
|---|---|---|---|
| Wire Number | Header Pin Number | Wire Number | Header Pin Number |
| 1 | 1 | 1 | 1 |
| 2 | 8 | 2 | 2 |
| 3 | 2 | 3 | 3 |
| 4 | 7 | 4 | 4 |
| 5 | 3 | 5 | 5 |
| 6 | 6 | 6 | 6 |
| 7 | 4 | 7 | 7 |
| 8 | 5 | 8 | 8 |

ALL DIMENSIONS: INCHES [MILLIMETERS]
ALL TOLERANCES: ±0.005 [0.13] UNLESS OTHERWISE SPECIFIED
FOR OTHER CONFIGURATIONS, SEE DATA SHEET 11007
CONSULT FACTORY FOR OTHER SIZES AND CONFIGURATIONS

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RoHS Compliant

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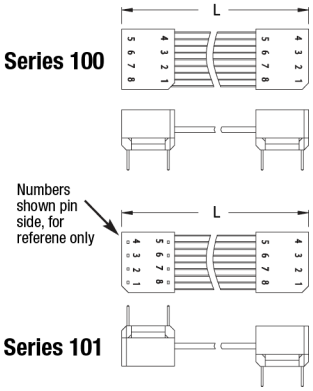
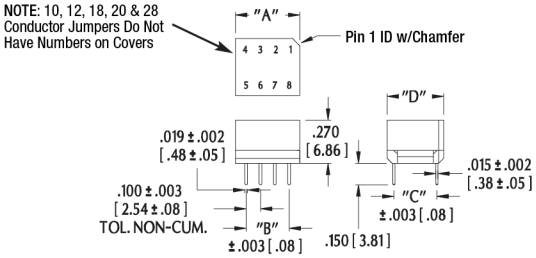
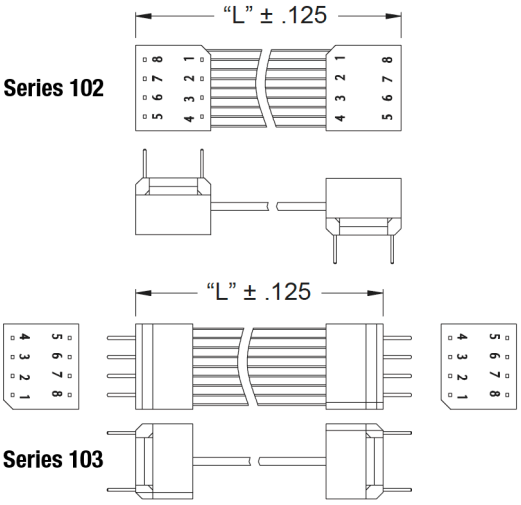
# DIP Jumpers

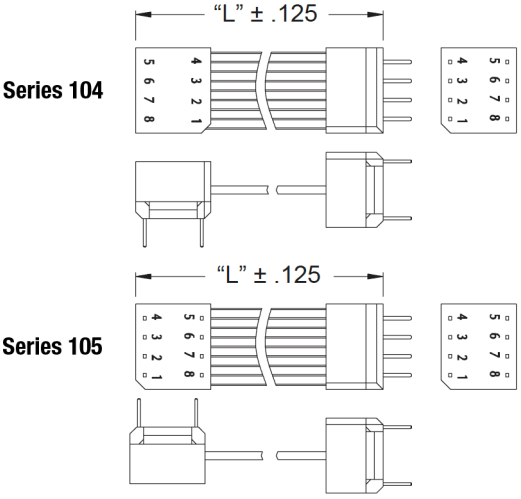


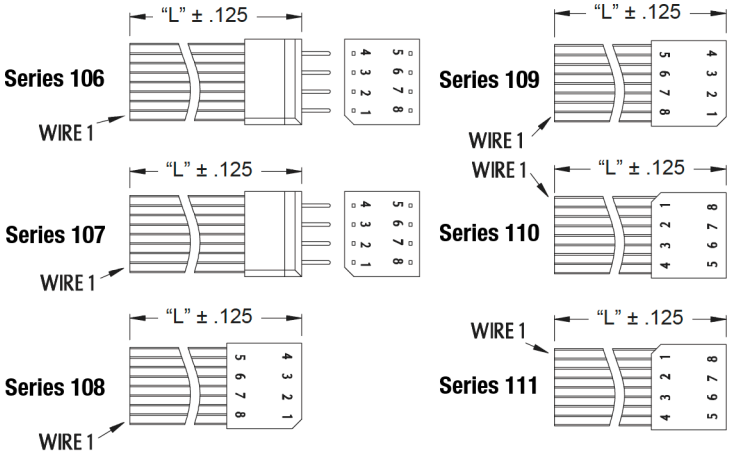

"A" = (No. of Conductors x 0.050 [1.27]) + 0.095 [2.41]
"B" = (No. of Conductors -1) x 0.050 [1.27]
"L" ±0.125

**Header Detail**
(Series 100, 101)

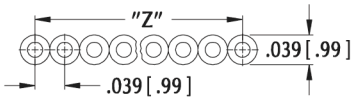


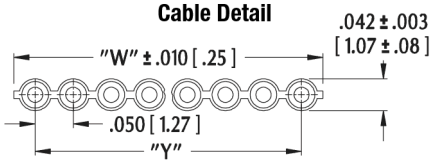




**Cable Detail**
(Series 107/109/111)




"Z"=(NO. OF CONDUCTORS - 1) X .039 [.99]

**Cable Detail**




"W"=(NO. OF CONDUCTORS X .050 [1.27]) + .005 [.08]
"Y"=(NO. OF CONDUCTORS - 1) X .050 [1.27]

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