



# 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.)

## 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] |



## 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)

## 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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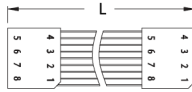


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Rev. 8.1  
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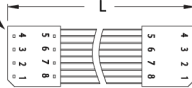


# Series 100 thru 111 DIP Jumpers

Series 100



Numbers shown pin side, for reference only



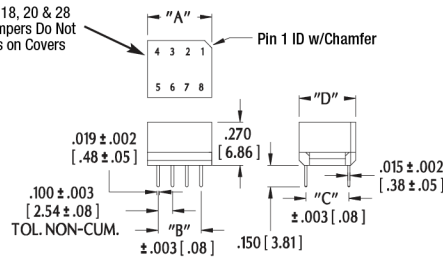
Series 101



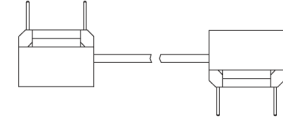
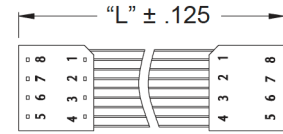
"A" = (No. of Conductors x 0.050 [1.27]) + 0.095 [2.41]  
"B" = (No. of Conductors - 1) x 0.050 [1.27]  
"L" ± 0.125

Header Detail  
(Series 100, 101)

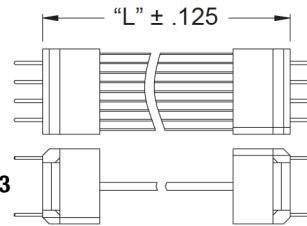
NOTE: 10, 12, 18, 20 & 28 Conductor Jumpers Do Not Have Numbers on Covers



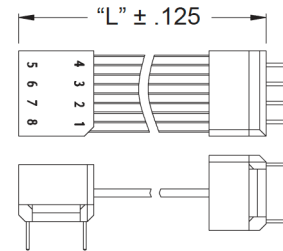
Series 102



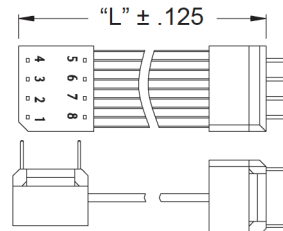
Series 103



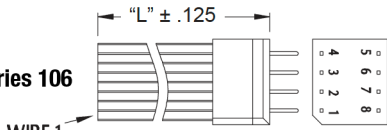
Series 104



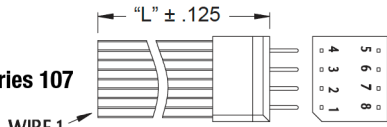
Series 105



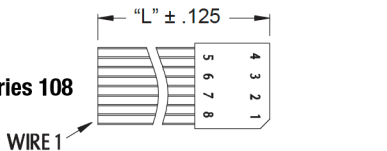
Series 106



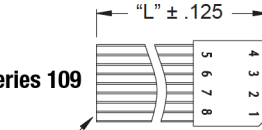
Series 107



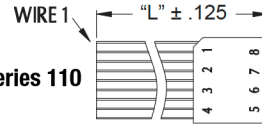
Series 108



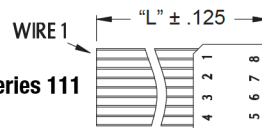
Series 109



Series 110



Series 111



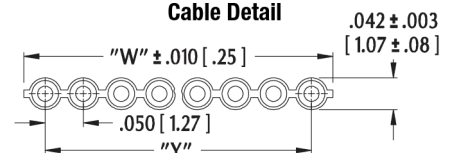
Cable Detail

(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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