



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:** 10 μ [0.25 μ] min. Au per MIL-G-45204 over 50 μ [1.27 μ] min. Ni per QQ-N-290
- **OPTIONAL PLATING:** 200 μ [5.08 μ] min. matte Sn per ASTM B545-97(2004)e1 over 50 μ [1.27mm] min. Ni per QQ-N-290; **—OR—** 200 μ [5.08 μ] 90/10 Sn/Pb per MIL-T-10727 Type I over 50 μ [1.27 μ] 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:** 1010 Ω (10 ft. [3 meters] min.)

MOUNTING CONSIDERATIONS

- **SUGGESTED PCB HOLE SIZE:** 0.033 $\pm$ 0.002 [0.86 $\pm$ 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: $\pm$ 0.005 [0.13] UNLESS OTHERWISE SPECIFIED

FOR OTHER CONFIGURATIONS, SEE [DATA SHEET 11007](#)

CONSULT FACTORY FOR OTHER SIZES AND CONFIGURATIONS

CUSTOMIZATION: ARIES SPECIALIZES IN CUSTOM DESIGN AND PRODUCTION. SPECIAL MATERIALS, PLATINGS, SIZES, AND CONFIGURATIONS CAN BE FURNISHED, DEPENDING ON QUANTITY.

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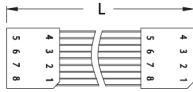


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Rev. 8.1
1 of 2

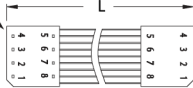


Series 100 thru 111 DIP Jumpers

Series 100



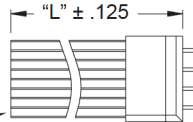
Numbers
shown pin
side, for
reference only



Series 101

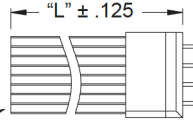


Series 106



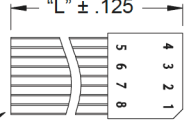
WIRE 1

Series 107



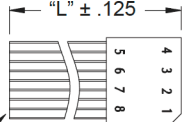
WIRE 1

Series 108



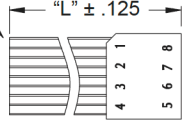
WIRE 1

Series 109



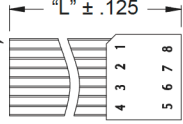
WIRE 1

Series 110



WIRE 1

Series 111



WIRE 1

Cable Detail

(Series 107/109/111)



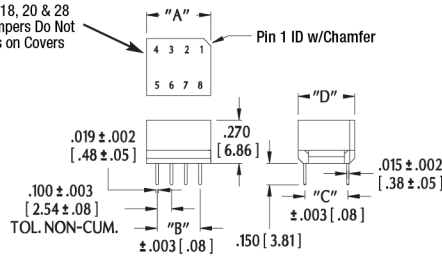
$$"Z" = (\text{NO. OF CONDUCTORS} - 1) \times .039 [.99]$$

$$"A" = (\text{No. of Conductors} \times 0.050 [1.27]) + 0.095 [2.41]$$

$$"B" = (\text{No. of Conductors} - 1) \times 0.050 [1.27]$$

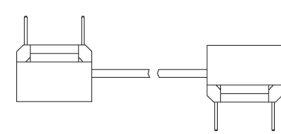
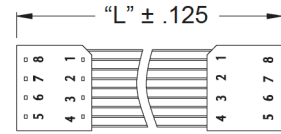
$$"L" \pm 0.125$$

Header Detail
(Series 100, 101)

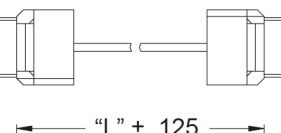
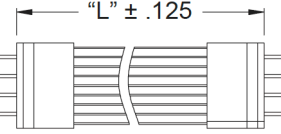


NOTE: 10, 12, 18, 20 & 28
Conductor Jumpers Do Not
Have Numbers on Covers

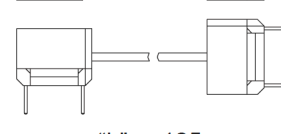
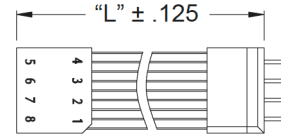
Series 102



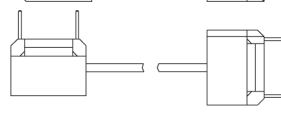
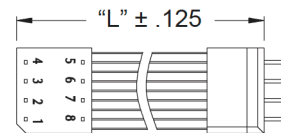
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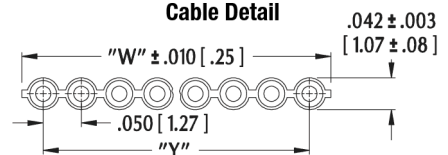
Series 104



Series 105



Cable Detail



$$"W" = (\text{NO. OF CONDUCTORS} \times .050 [1.27]) + .005 [.08]$$

$$"Y" = (\text{NO. OF CONDUCTORS} - 1) \times .050 [1.27]$$

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