



# Series 100 thru 111 DIP Jumpers

## FEATURES:

- Aries offers a wide array of DIP jumper configurations and wiring possibilities for all your programming needs.
- Reliable, electronically tested solder connections.
- Protective covers are ultrasonically welded on and provide strain relief for cables.
- 10-color cable allows for easy identification and tracing.
- Consult factory for jumper lengths under 2.000 [50.80].

## SPECIFICATIONS:

- Header body and cover is black UL 94V-0 4/6 Nylon.
- Header pins are Brass, 1/2 hard.
- Standard Pin plating is 10µ [2.5µm] min. Gold per MIL-G-45204 over 50µ [1.27µm] min. Nickel per QQ-N-290.
- Optional Plating:  
 "T" = 200µ [5.08µm] min. Matte Tin per ASTM B545-97 over 50µ [1.27µm] min. Nickel per QQ-N-290.  
 "TL" = 200µ [5.08µm] 90/10 Tin/Lead per MIL-T-10727 Type I over 50µ [1.27µm] min. Nickel per QQ-N-290.
- Cable insulation is UL Style 2697 Polyvinyl Chloride (PVC).
- Laminate is clear PVC, self-extinguishing."
- .050 [1.27] pitch conductors are 28 AWG, 7/36 strand, Tinned Copper per ASTM B 33 (.039 [.99] pitch conductors are 26 AWG, 7/34 strand).
- Cable current rating=1 Amp @ 10°C [50°F] above ambient.
- Cable voltage rating=300 Volts.
- Cable temperature rating=176°F [80°C].
- Cable capacitance=13.0 pf/ft. [42.7pf/meter] nominal @1 MHz.\*\*
- Crosstalk: 10' sample, 5 ns rise time with 2 lines driven. Near end=4.7%; Far end=4.3% nominal.\*\*
- Propagation delay=1.5 ns/ft. [4.9 ns/meter] nominal.\*\*
- Insulation resistance=10<sup>10</sup> Ohms (10 ft. [3 meters] min.).

\*\*Note: Applies to .050 [1.27] pitch cable only.

## MOUNTING CONSIDERATIONS:

- Suggested PCB hole size=.033 ± .002 [86 ±.05].



Note: Aries specializes in custom design and production. In addition to the standard products shown on this page, special materials, platings, sizes, and configurations can be furnished, depending on quantities. Aries reserves the right to change product specifications without notice.

## ORDERING INFORMATION

**XX-XXXX-XXXXXX**

No. of conductors (see table)  
 Cable length in inches:  
 Ex: 2" = -002-  
 2.5" = -002.5-  
 (min. length=2."[50.80mm])

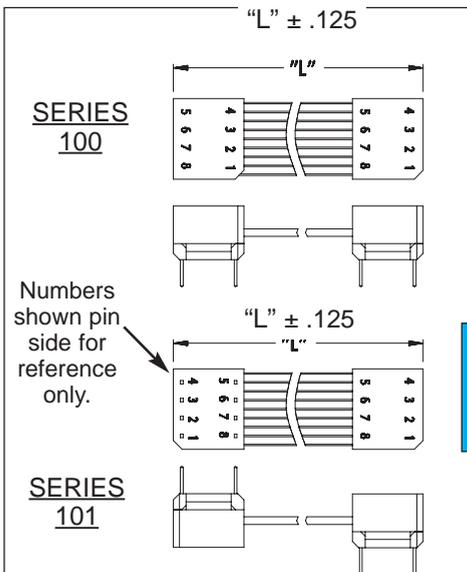
Jumper series

Optional suffix:  
 T= Tin plated header pins  
 TL= Tin/Lead plated header pins  
 TW= twisted pair cable  
 ST= stripped and Tin Dipped ends (Series 106-111)  
 STL= stripped and Tin/Lead Dipped Ends (Series 106-111)

Centers "C"	Dim. "D"	Available Sizes
.300 [7.62]	.395 [10.03]	4 thru 20
.400 [10.16]	.495 [12.57]	22
.600 [15.24]	.695 [17.65]	24, 28, 40

All Dimensions: Inches [Millimeters]

All tolerances ± .005[.13] unless otherwise specified

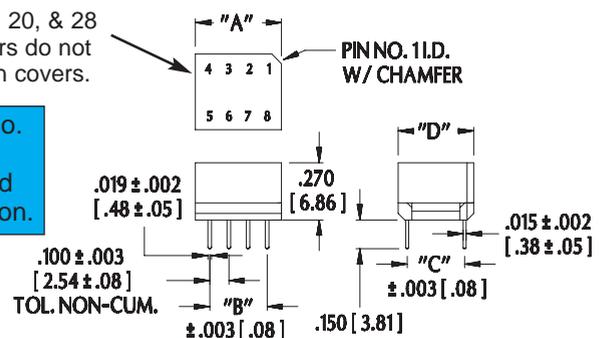


"A"=(NO. OF CONDUCTORS X .050 [1.27] + .095 [2.41])  
 "B"=(NO. OF CONDUCTORS - 1) X .050 [1.27]

See Data Sheet No. 11007 for other configurations and additional information.

Note: 10, 12, 18, 20, & 28 conductor jumpers do not have numbers on covers.

## HEADER DETAIL



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