



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 [25µm] 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=10¹⁰ Ohms (10 ft. [3 meters] min.).

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

MOUNTING CONSIDERATIONS:

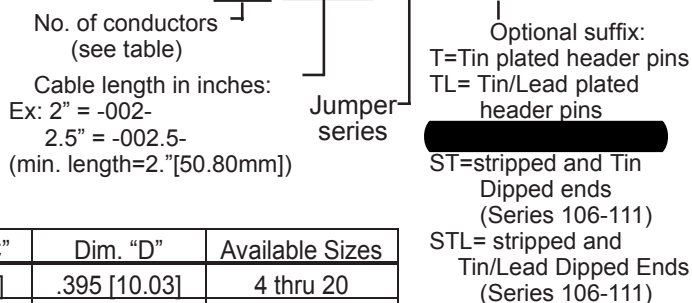
- Suggested PCB hole size=.033 ± .002 [.86 ± .05].



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

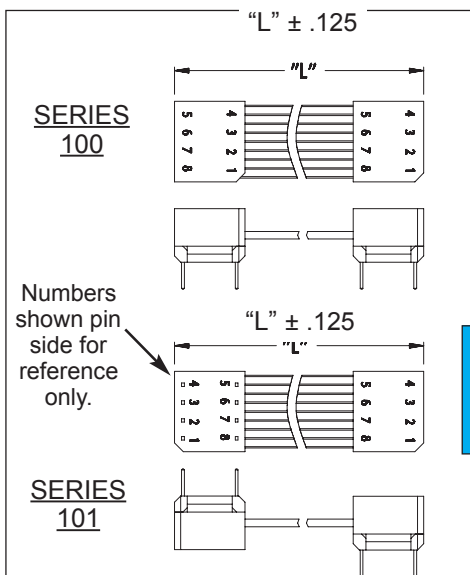
XX-XXXX-XXXXXX



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

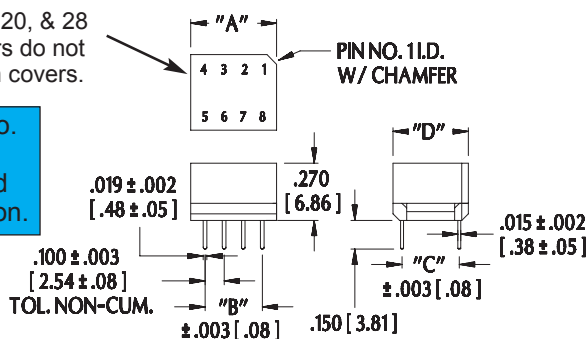


"A"=(NO. OF CONDUCTORS X .050 [1.27] + .095 [2.41])
 "B"=(NO. OF CONDUCTORS - 1) X .050 [1.27]

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

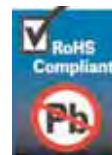
Note: 10, 12, 18, 20, & 28 conductor jumpers do not have numbers on covers.

HEADER DETAIL



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 TEL: (215) 781-9956
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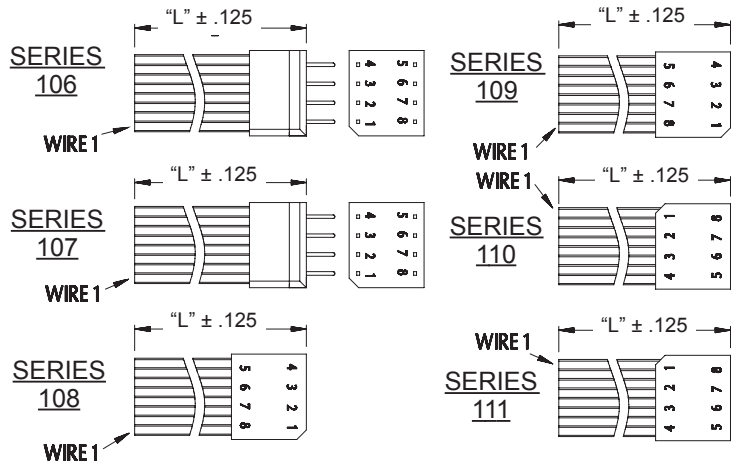
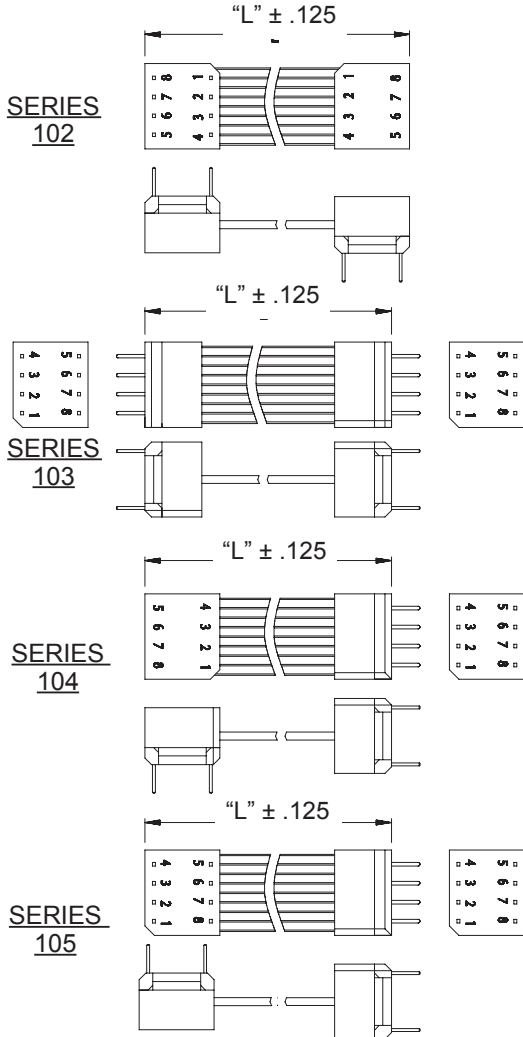


11006
 REV. H

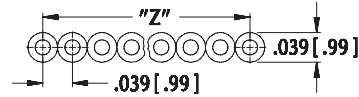


Series 100 thru 111 DIP Jumpers (cont.)

See Data Sheet No. 11006 for other configurations and additional information.



CABLE DETAIL
(Series 107/109/111)



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

SINGLE END DIP JUMPER WIRE LIST

Series 106, 108, 110		Series 107, 109, 111	
Wire No.	Header Pin No.	Wire No.	Header Pin No.
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

ORDERING INFORMATION

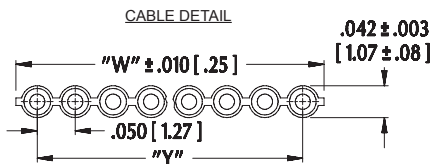
XX-XXXX-XXXXXX

No. of conductors (see table)

Cable Length in inches:
Ex: 2" = -.002/-2.5" = -.002.5-
min cable 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)



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

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



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11007
REV. G