



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 is red UL 94-HB Glass-filled Nylon. Consult factory for UL 94V-0 rated material.
 - Header pins are Brass, 1/2 hard.
 - Pin plating is 10 μ [.25 μ m] min. Gold per MIL-G-45204 over 50 μ [1.27 μ m] 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.

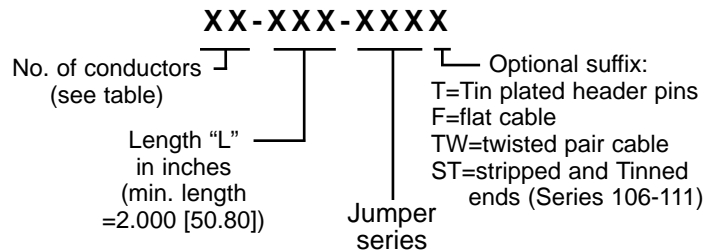
MOUNTING CONSIDERATIONS:

- Suggested PCB hole size=.033 \pm .002 [.86 \pm .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



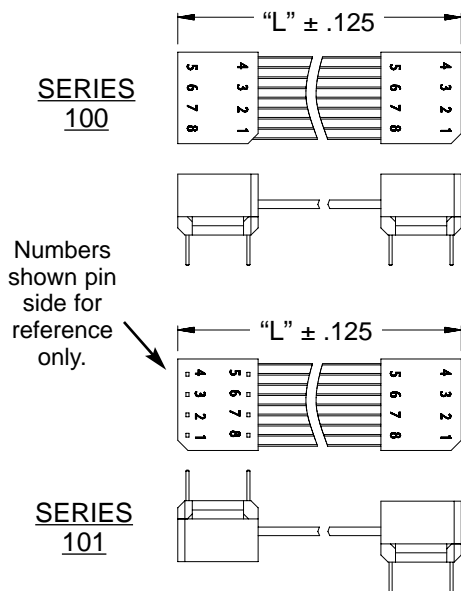
ALL DIMENSIONS: INCHES [MILLIMETERS]

All tolerances \pm .005 [.13] unless otherwise specified

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

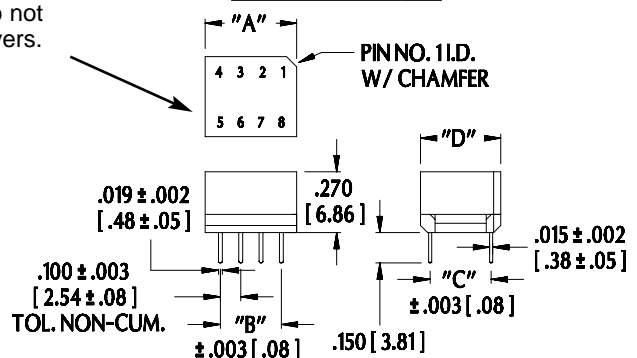
Centers "C"	Dim. "D"	Available Sizes
.300 [7.62]	.395 [10.03]	4 thru 20
.400 [10.16]	.495 [12.57]	22
.600 [15.24]	.695 [17.65]	24, 28, 40

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



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

HEADER DETAIL



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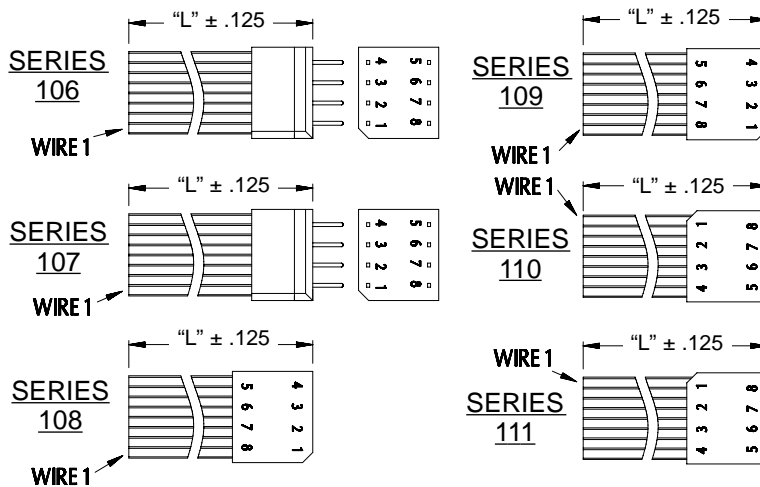
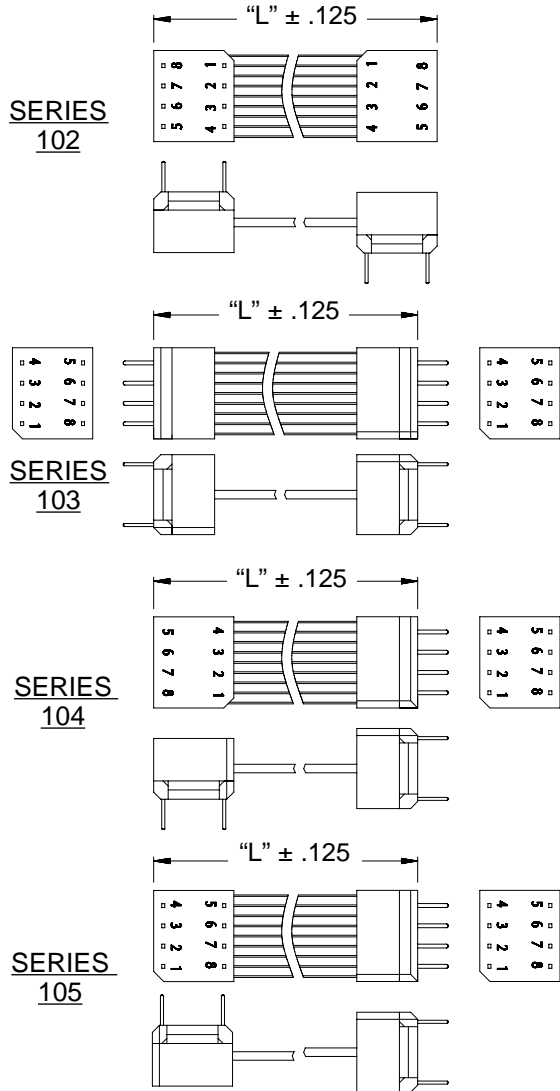
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11006
 REV.B

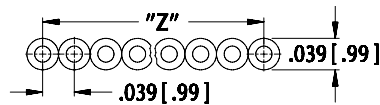


Series 100 thru 111 DIP Jumpers (cont.)

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



CABLE DETAIL
(Series 107/109/111)

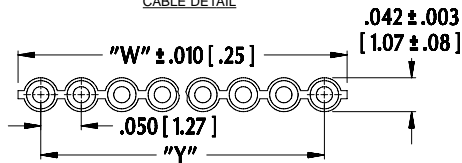


$"Z" = (\text{NO. OF CONDUCTORS} - 1) \times .039 [.99]$

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

CABLE DETAIL



$"W" = (\text{NO. OF CONDUCTORS} \times .050 [.127]) + .005 [.08]$
 $"Y" = (\text{NO. OF CONDUCTORS} - 1) \times .050 [.127]$

ORDERING INFORMATION

XX-XXX-XXXX

No. of conductors (see table) | Optional suffix:
 Length "L" in inches (min. length = 2.000 [50.80]) | T= Tin plated header pins
 Jumper series | F= flat cable
 | TW= twisted pair cable
 | ST= stripped and Tinned ends (Series 106-111)

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11007
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