

DIP and D Subminiature Jumpers

- · Aries offers a wide array of DIP/D Subminiature jumper configurations and wiring possibilities for all your programming needs.
- · Reliable, electronically tested solder connections.
- · Cable is potted to provide strain relief.
- Protective covers are also provided on headers.
- 10-color cable allows for easy identification and tracing.
- 9 pin "D" connector available with 8 or 14 pin header.
- 15 pin "D" connector available with 14 or 16 pin header.
- 25 pin "D" connector available with 24 pin header.
- 37 pin "D" connector available with 40 pin header.
- 50 pin "D" connector available with two 24 pin headers.
- Consult factory for jumper lengths under 2.000 [50.80].

HEADER 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.
- Header pin plating is 10μ [.25μm] min. Gold per MIL-G-45204 over 50μ [1.27μm] min. Nickel per QQ-N-290.

D-SUBMINIATURE CONNECTOR SPECIFICATIONS:

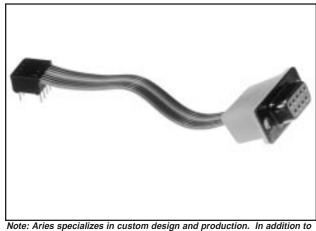
- Insulator is UL 94V-0 flame-retardant thermoplastic.
- · Contacts are Copper Alloy.
- Contact plating is 100μ [2.54μm] min. Gold over Nickel.

CABLE SPECIFICATIONS:

- Insulation is UL Style 2697 Polyvinyl Chloride (PVC).
- · Laminate is clear PVC, self-extinguishing.
- Conductors are 28 AWG, 7/36 strand, Tinned Copper per ASTM B 33.
- Current rating=1 Amp @ 10°C [50°F] above ambient.
- Voltage rating=300 Volts.
- Temperature rating=176°F [80°C].
- 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.).

Mounting Considerations:

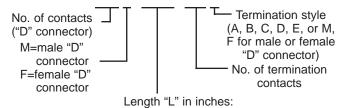
"L" ± .125



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

XXX-XXX-XXX

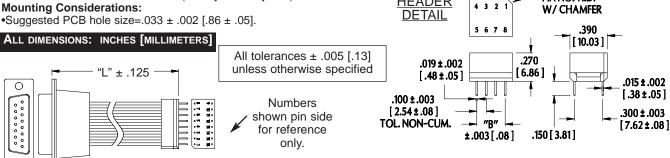


PIN NO. 1 I.D.

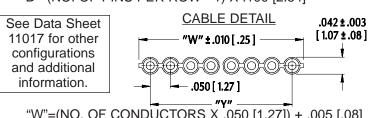
"D" to DIP=2.000 [50.80] min. "D" to "D"=3.000 [76.20] min.

+ "A" -

HEADER



"A"=(NO. OF PINS PER ROW X .100 [2.54]) + .095 [2.41] "B"=(NO. OF PINS PER ROW - 1) X .100 [2.54]



"W"=(NO. OF CONDUCTORS X .050 [1.27]) + .005 [.08] "Y"=(NO. OF CONDUCTORS - 1) X .050 [1.27]



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STYLE B

STYLE A



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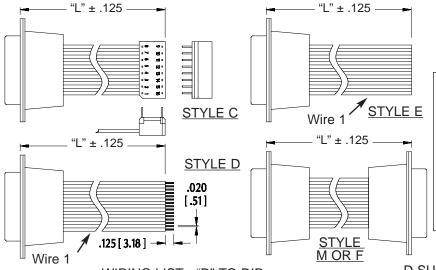
EUROPE/MAINLAND/HOLLAND TEL: +31 78 615 94 65

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11016 REV.B



DIP and D Subminiature Jumpers (cont.)



Note: All DIP header chamfers (pin 1 I.D.) shown with female "D" connector, pin 1 is in diagonally opposite corner.

Typical wiring sequence for termination Style D and E, male "D" connector shown contact side.

contact "D" connector

9, 15, 25, & 37

50 contact "D" connector 135791186 24611829

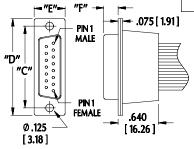
1 4 7 2 5 8 3 6 9

WIRING LIST - "D" TO DIP

| WIRING LIST - "D" TO DIP | | | | | | | | | |
|--------------------------|-------|----------|--------|--------|----------|----------|------------|--|--|
| "D" | 9 "D" | 9 "D" | 15 "D" | 15 "D" | 25 "D" | 37 "D" | 50 "D" | | |
| Connecto | 8 DIP | 14 DIP | 14 DIP | 16 DIP | 24 DIP | 40 DIP | (2) 24 DIP | | |
| r 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1B | | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 24B | | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2B | | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 23B | | |
| 5 | Dummy | 5 | 5 | 5 | 5 | 5 | 3B | | |
| 6 | 8 | 14 | 6 | 6 | 6 | 6 | 22B | | |
| 7 | 7 | 13 | 7 | 7 | 7 | 7 | 4B | | |
| 8 | 6 | 12 | Dummy | 8 | 8 | 8 | 21B | | |
| 9 | 5 | 11 | 14 | 16 | 9 | 9 | 5B | | |
| 10 | | | 13 | 15 | 10 | 10 | 20B | | |
| 11 | | DIP | 12 | 14 | 11 | 11 | 6B | | |
| 12 | | 6 | 11 | 13 | 12 | 12 | 19B | | |
| 13 | | thru | 10 | 12 | Dummy | 13 | 7B | | |
| 14 | | 10 Dummy | 9 | 11 | 24 | 14 | 18B | | |
| 15 | | | 8 | 10 | 23 | 15 | 8B | | |
| 16 | | | | | 22 | 16 | 17B | | |
| 17 | | | | DIP 9 | 21 | 17 | 8B | | |
| 18 | | | | Dummv | 20 | 18 | 4A | | |
| 19 | | | | | 19 | 19 | 22A | | |
| 20 21 | | | | | 18 17 | 40 | 3A 23A | | |
| 22 | | | | | 16 | 39 38 | 23A 2A | | |
| 23 | | | | | 15 | 37 | 24A | | |
| 24 | | | | | 14 | 36 | 1A | | |
| 25 | | | | | 13 | 35 | Dummy | | |
| 26 | | | | | 13 | 34 | Dummy | | |
| 27 | | | | | | 33 | 13B | | |
| 28 | | | | | | 32 | 12B | | |
| 29 | | | | | | 31 | 14B | | |
| 30 | | | | | | 30 | 11B | | |
| 31 | | | | | | 29 | 15B | | |
| 32 | | | | | | 28 | 10B | | |
| 33 | | | | | | 27 | 16B | | |
| 34 | | | | | | 26 | 21A | | |
| 35 | | | | | | 25 | 15A | | |
| 36 | | | | | | 24 | 20A | | |
| 37 | | | | | | 23 | 6A | | |
| 38 | | | | | | | 19A | | |
| 39 | | | | | | DIP | 7A | | |
| 40 | | - | | | | 20,21,22 | 18A | | |
| 41 | | - | | - | | Dummy | 8A | | |
| 42 | | - | | | | | 17A | | |
| 43 | | | | | | | 9A | | |
| 44 | | - | | | | | 16A | | |
| 45 46 | | - | | | | | 10A 15A | | |
| 46 | | | | | | | 15A 11A | | |
| 48 | | | | | | | 11A 14A | | |
| 49 | | | | | | | 12A | | |
| | | l | 1 | 1 | 1 | | 140 | | |

<u>D SUBMINIATURE</u> CONNECTOR DETAIL

See Data Sheet 11016 for other configurations and additional information.



| No. of Pins | Dim. "C" | Dim. "D" | Dim. "E" | Dim. "F" |
|----------------|---------------|---------------|--------------|-------------|
| 9 Male | .984 [24.99] | 1.220 [30.99] | .494 [12.55] | .325 [8.26] |
| 9 Female | .972 [24.69] | 1.219 [30.96] | .494 [12.55] | .243 [6.17] |
| 15 Male | 1.310 [33.27] | 1.545 [39.24] | .494 [12.55] | .232 [5.89] |
| 15 Female | 1.312 [33.33] | 1.542 [39.17] | .494 [12.55] | .243 [6.17] |
| 25 Male | 1.850 [46.99] | 2.094 [53.19] | .494 [12.55] | .230 [5.84] |
| 25 Female | 1.850 [46.99] | 2.094 [53.19] | .494 [12.55] | .243 [6.17] |
| 37 Male | 2.500 [63.50] | 2.737 [69.52] | .494 [12.55] | .230 [5.84] |
| 37 Female | 2.500 [63.50] | 2.740 [69.60] | .494 [12.55] | .243 [6.17] |
| 50 Male | 2.406 [61.11] | 2.640 [67.06] | .494 [12.55] | .230 [5.84] |
| 50 Female | 2.406 [61.11] | 2.643 [67.13] | .494 [12.55] | .243 [6.17] |

Minimum length "L"= "D" to DIP: 2.000 [50.80] "D" to "D": 3.000 [76.20]

ORDERING INFORMATION

XXX-XXX-XXXTermination style (A, B, C, D, E, or No. of contacts M, F for male or ("D"-connector) female "D" con-Length "L" M=male "D" nector) in inches connector No. of termina-F=female "D" tion contacts connector



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11017 REV.B