



# Series C81/C91 Standard Dual Beam Wire Wrap Edge-Grip Socket

## FEATURES

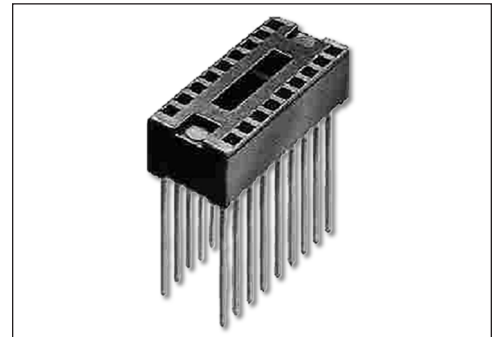
- Dual beam, edge-grip contacts provide high retention with positive wiping action
- Removable cover provides lower profile
- Side-to-side stackable

## GENERAL SPECIFICATIONS

- BODY: black UL 94V-0 glass-filled 4/6 Nylon
- DUAL BEAM CONTACT: Grade A Phosphor Bronze, 1/2-hard
- CONTACT PLATING: (all over 50µ [1.27µ] Ni per SAE-AMS-QQ-N-290); Sn 200µ [5.08µ] min. matte Sn per ASTM B545-97; Sn/Pb 50-150µ [1.27-3.81µ] min. 90/10 Sn/Pb per MIL-P-81728; Au 10µ [0.25µ] min. per MIL-G-45204
- CONTACT CURRENT RATING: 1.5 amp
- CONTACT RESISTANCE: 20 mΩ initial
- INSULATION RESISTANCE: 100 mΩ @ 500 VDC per MIL-STD-1344, method 3003.1
- DIELECTRIC WITHSTANDING VOLTAGE: 1000 VAC
- OPERATING TEMPERATURE: Sn -67°F to 221°F [-55°C to 105°C]; Au -67°F to 257°F [-55°C to 125°C]
- SOLDERABILITY: MIL-STD-202, Method 208, less heat aging
- WITHOUT COVER: accepts leads up to 0.011 x 0.018 ±0.003 [0.28 x 0.46 ±0.08] or 0.021 [0.53] dia.
- WITH COVER: accepts leads 0.100-0.200 [2.54-5.08] long

## MOUNTING CONSIDERATIONS

- SUGGESTED PCB HOLE SIZE: 0.046 ±0.002 [1.17 ±0.05] dia.

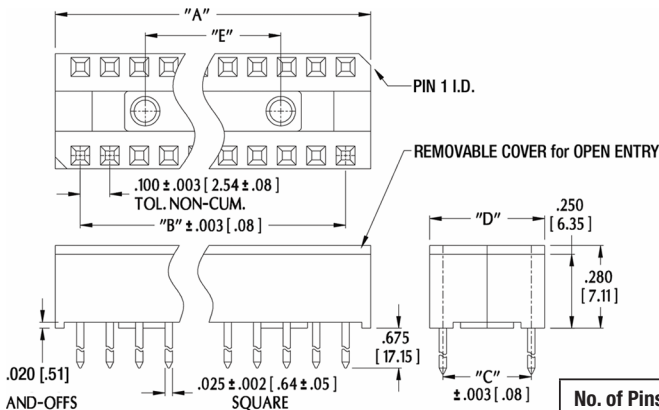


**CUSTOMIZATION:** In addition to the standard products shown on this page, Aries specializes in custom design and production. Special materials, platings, sizes, and configurations can be furnished, depending on the quantity. **NOTE:** Aries reserves the right to change product general specifications without notice.

## ORDERING INFORMATION

**C XX XX-XX TL**

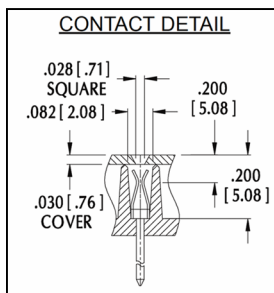
- Socket Series
- Pin Plating
  - 91 = Au
  - 81 = Sn
- No. of Pins (see Table)
- Optional Plating Sn/Pb
  - C81 Series
    - 04 = Closed Entry
    - 54 = Open Entry w/o Cover
  - C91 Series
    - 00 = Closed Entry
    - 50 = Open Entry w/o Cover



ALL DIMENSIONS: INCHES [MILLIMETERS]

ALL TOLERANCES: ±0.005 [0.13] UNLESS OTHERWISE SPECIFIED

| No. of Pins | Dim "A"       | Dim "B"       | Dim "C"       | Dim "D"       | Dim "E"       |
|-------------|---------------|---------------|---------------|---------------|---------------|
| 8           | 0.465 [11.81] | 0.300 [7.62]  | 0.300 [7.62]  | 0.400 [10.16] | N/A           |
| 14          | 0.765 [19.43] | 0.600 [15.24] | 0.300 [7.62]  | 0.400 [10.16] | 0.300 [7.62]  |
| 16          | 0.865 [21.97] | 0.700 [17.78] | 0.300 [7.62]  | 0.400 [10.16] | 0.400 [10.16] |
| 18          | 0.965 [24.51] | 0.800 [20.32] | 0.300 [7.62]  | 0.400 [10.16] | 0.400 [10.16] |
| 20          | 1.065 [27.05] | 0.900 [22.86] | 0.300 [7.62]  | 0.400 [10.16] | 0.400 [10.16] |
| 22          | 1.180 [29.97] | 1.000 [25.40] | 0.400 [10.16] | 0.500 [12.70] | 0.500 [12.70] |
| 24          | 1.280 [32.51] | 1.100 [27.94] | 0.600 [15.24] | 0.700 [17.78] | 0.500 [12.70] |
| 28          | 1.480 [37.59] | 1.300 [33.02] | 0.600 [15.24] | 0.700 [17.78] | 0.500 [12.70] |
| 36          | 1.880 [47.75] | 1.700 [43.18] | 0.600 [15.24] | 0.700 [17.78] | 0.800 [20.32] |
| 40          | 2.080 [52.83] | 1.900 [48.26] | 0.600 [15.24] | 0.700 [17.78] | 0.800 [20.32] |



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