

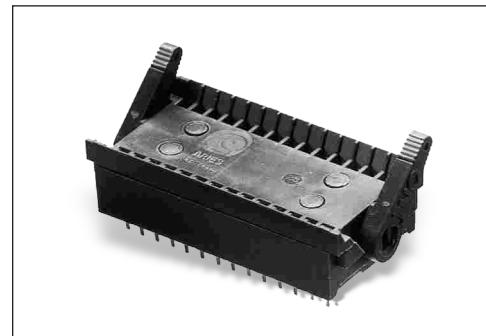


# Series 516

## Zero-Insertion-Force Socket

### FEATURES

- A choice of 24-, 28-, or 40-pin count devices can be inserted without bending or otherwise damaging the legs, since no force is required to either insert or remove the component from the socket.
- Contacts are normally open and are closed by a unique cam action controlled by dual lever arms.
- The last 15° of movement of the cam provides a wiping action to the contacts on the legs of the device to remove any residue, ensuring a gas-tight seal.
- Tapered entry helps guide the device legs into the mating position with the contacts.



### GENERAL SPECIFICATIONS

- BODY, HANDLE, CAM: black UL 94V-0 glass-filled 4/6 Nylon
- PINS: BeCu 170 or 172, 1/2-hard
- PIN PLATING: 10 $\mu$  [0.254 $\mu$ ] min. Au per MIL-G-45204 over 50 $\mu$  [1.27 $\mu$ ] min. Ni per SAE AMS-QQ-N-290
- CONTACT CURRENT RATING: 1 amp
- OPERATING TEMPERATURE: 257°F [125°C]
- MINIMUM RETENTION FORCE (when closed): 15g/lead, based on a 0.008 [0.20] thick test lead
- ACCEPTS: most lead widths with lengths from 0.075 to 0.250 [1.91 to 6.35]

### MOUNTING CONSIDERATIONS

- SUGGESTED PCB HOLE SIZE: 0.035 ± 0.002 [0.89 ± 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

XX-516-11 X

|        |            |                      |
|--------|------------|----------------------|
| Pins   | 24, 28, 40 | Optional Suffix      |
| Series |            | S = Short Lever Arm  |
|        |            | M = Midget Lever Arm |
|        |            | Plating              |
|        |            | 11 = Au over Ni      |

### ALL DIMENSIONS: INCHES [MILLIMETERS]

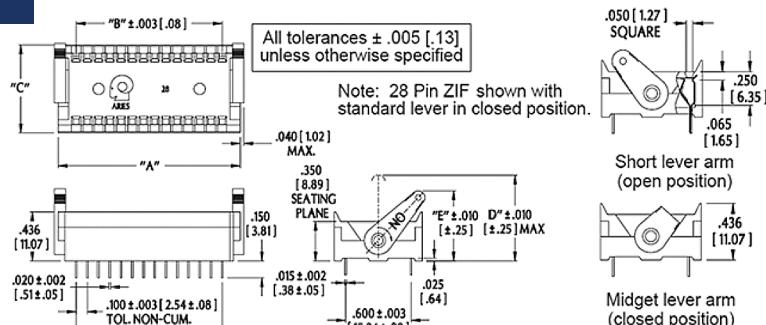
ALL TOLERANCES: ± 0.005 [0.13] UNLESS OTHERWISE SPECIFIED

"A" = (NO. OF PINS PER ROW x 0.100 [2.54]) + 0.220

"B" = (NO. OF PINS PER ROW -1) x 0.100 [2.54]

CONSULT FACTORY FOR OTHER SIZES AND CONFIGURATIONS

**SERIES 526 Lo-PRO®FILE ZIF SOCKET ALSO AVAILABLE CONSULT  
DATA SHEET 10018**



|             |               | Standard Lever Arm |               | Short Lever Arm |               | Midget Lever Arm |              |
|-------------|---------------|--------------------|---------------|-----------------|---------------|------------------|--------------|
| No. of Pins | Dim. "C"      | Dim. "D"           | Dim. "E"      | Dim. "D"        | Dim. "E"      | Dim. "D"         | Dim. "E"     |
| 24          | 0.785 [19.94] | 0.76 [19.30]       | 0.630 [16.00] | 0.60 [15.24]    | 0.520 [13.21] | 0.41 [10.41]     | 0.42 [10.67] |
| 28          | 0.785 [19.94] | 0.76 [19.30]       | 0.630 [16.00] | 0.60 [15.24]    | 0.520 [13.21] | 0.41 [10.41]     | 0.42 [10.67] |
| 40          | 0.780 [19.81] | 0.76 [19.30]       | 0.630 [16.00] | 0.60 [15.24]    | 0.520 [13.21] | 0.41 [10.41]     | 0.42 [10.67] |



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10017  
Rev. AA

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Authorized Distributor

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