



# Series 516 Zero-Insertion-Force Socket

## FEATURES

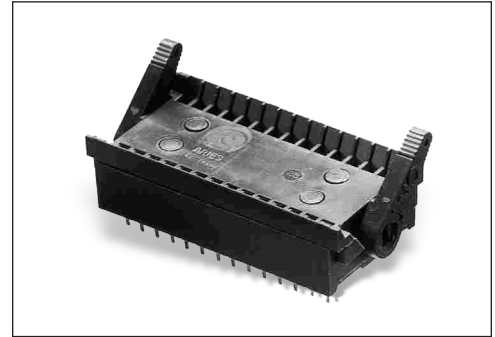
- A choice of 24-, 28-, or 40-pin count devices can be inserted without bending or otherwise damaging the legs, since no force is required to either insert or remove the component from the socket.
- Contacts are normally open and are closed by a unique cam action controlled by dual lever arms.
- The 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: 10μ [0.254μ] min. Au per MIL-G-45204 over 50μ [1.27μ] 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  
Series

Optional Suffix  
S = Short Lever Arm  
M = Midget Lever Arm  
Plating  
11 = Au over Ni

ALL DIMENSIONS: INCHES [MILLIMETERS]

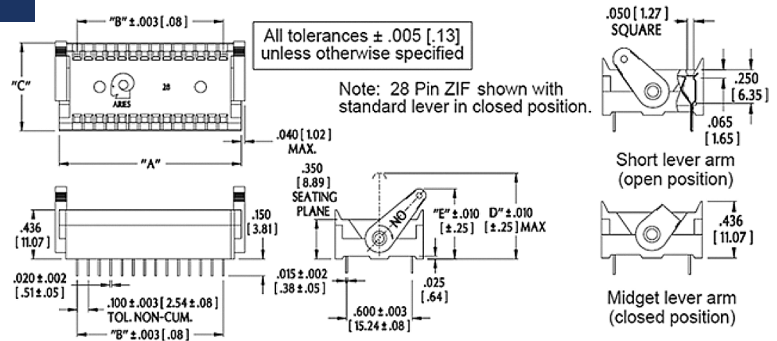
ALL TOLERANCES: ±0.005 [0.13] UNLESS OTHERWISE SPECIFIED

"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**



No. of Pins	Dim. "C"	Standard Lever Arm		Short Lever Arm		Midget Lever Arm	
		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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