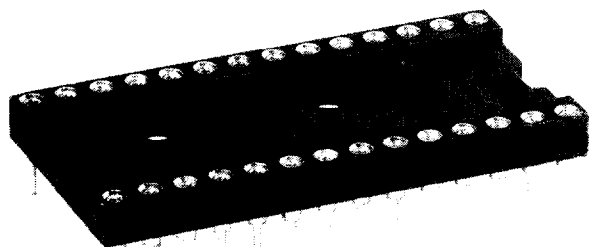
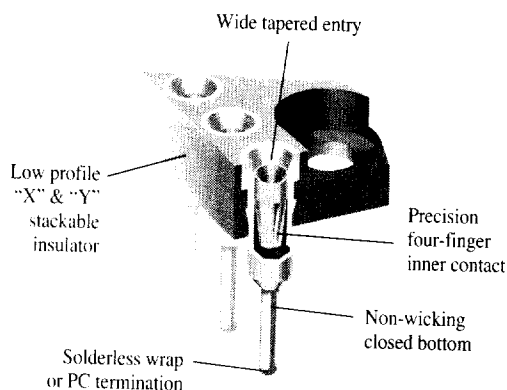


### Four-Fingered Contact & Solid Insulator

#### 500 Series




528-AG11D-ES



#### FEATURES:

The 500 Series Socket features a precision four-finger inner contact to produce the industry standard for high reliability screw machine sockets.

- Precision four-finger inner contact provides concentric funnel entry for easy flat and round lead insertion
- Machined (Premium Series) and stamped (Economy Series) contacts are available
- "X" & "Y" stackable
- Non-wicking, closed bottom sleeve gives 100% protection against flux and solder contamination. Choice of solderless wrap or PC termination
- Accommodates 6 through 40 pin DIPS, rectangular or round leads
-  Recognized under the Component Program of Underwriters Laboratories, Inc. file no. E111362
- Beryllium copper inner contact for maximum mechanical and electrical performance
- For extreme conditions involving shock and vibration, The AMP high retention series is available

#### APPLICATION DIMENSIONS:

- PCB Thickness Range: Standard .062" and .092" (1.57 and 2.34)
- PCB Hole Size Range: .035" ± .002" (0.89 ± 0.05) PC tail, .055" ± .003" (1.40 ± 0.08) solderless wrap
- IC Pin Dimension Range: .009" x .015" (0.23 x 0.38) through .011" x .020" (0.28 x 0.51) .016" to .021" (0.41 to 0.53) round lead, .105" (2.67) min. length

#### MATERIAL SPECIFICATIONS:

Insulator.....	Thermoplastic polyester, UL rated 94V-0
Sleeve .....	Machined brass/formed copper
Contact .....	Beryllium copper
Sleeve Plating .....	Tin/lead or gold
Contact Plating .....	Premium or Economy Series (ES) - gold or tin/lead
	Economy Series (ESL) - low gold

#### PERFORMANCE SPECIFICATIONS:

##### MECHANICAL

Vibration .....	Passed MIL-STD-1344, Method 2005.1, Condition II, 10 G's
Shock .....	Passed MIL-STD-1344, Method 2004.1, Condition C, 100 G's
Durability .....	Passed MIL-STD-1344, Method 2016
Normal Force .....	125 Grams (4.4 oz.) average with .018" (0.46) dia. polished steel pin (Premium Series)
	200 Grams (7.1 oz.) average with .018" (0.46) dia. polished steel pin (Economy Series)
Inner Contact Retention ..	
in Sleeve .....	7.5 Lbs. per line average
Sleeve Retention	
in Plastic .....	3.0 Lbs. per line minimum
Solderability .....	Passed MIL-STD-202F, Method 208
Insertion Force .....	Premium - 134 Grams (4.7 oz.) average with a .018" (0.46) dia. polished steel pin
	Economy - 179 Grams (6.3 oz.) average with a .018" (0.46) dia. polished steel pin
Withdrawal Force .....	63 Grams (2.2 oz.) average with a .018" (0.46) dia. polished steel pin
(Premium and Economy)	

##### ELECTRICAL

Contact Resistance .....	10 Milliohms max.
Contact Rating.....	3 Amps
Capacitance .....	1.0 pF per MIL-STD-202, Method 305 (contact to contact)
Insulation Resistance.....	5,000 Megohms min. @ 500 VDC per MIL-STD-1344, Method 3003.1
Dielectric Withstanding	
Voltage .....	1,000 Volts RMS per MIL-STD-1344, Method 3001.1

##### ENVIRONMENTAL

Humidity .....	Passed MIL-STD-1344, Method 1002.2, Cond. II
Thermal Shock .....	Passed MIL-STD-1344, Method 1003.1, Cond. A
Operation Temperature .....	Gold inner contact -55°C to +125°C, Tin/lead inner contact -55°C to +105°C

### Four-Fingered Contact & Solid Insulator

#### 500 Series

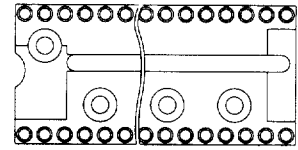


Figure 2

#### STANDARD CONFIGURATIONS

Number of Contacts	A	B*	C	Number of Contacts	A	B*	C
6	.300 (7.62)	.300 (7.62)	.400 (10.16)	24	1.200 (30.48)	.400 (10.16)	.500 (12.70)
8	.400 (10.16)			24	1.200 (30.48)		
14	.700 (17.78)			28	1.400 (35.56)		
16	.800 (20.32)			32	1.600 (40.64)	.600 (15.24)	.700 (45.72)
18	.900 (22.86)			36	1.800 (47.72)		
20	1.000 (25.40)			40	2.000 (50.80)		
22	1.150 (29.21)	.400 (10.16)	.500 (12.70)				

\* Dimension B ± .005 (0.13)

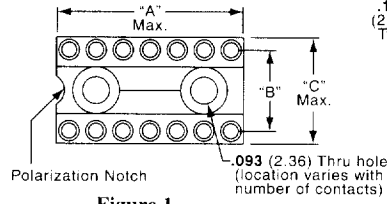
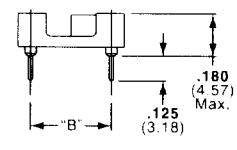
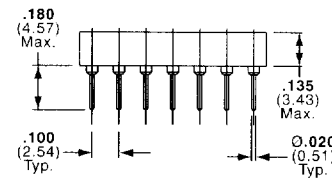
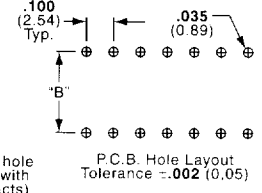


Figure 1



#### PART NUMBERS

Economy Series	Premium	Figure	Position	Centerline	Contact	Sleeve	Economy Series	Premium	Figure	Position	Centerline	Contact	Sleeve
506-AG10D-ES	506-AG10D	1	6	.300 (7.62)	Gold	Gold	524-AG65D-ES	524-AG65D	2	24	.400 (10.16)	Gold	Gold
506-AG10D-ESL	506-AG10D				Low Gold	Gold	524-AG65D-ESL	524-AG65D				Low Gold	Gold
506-AG11D-ES	506-AG11D				Gold	Tin/Lead	524-AG66D-ES	524-AG66D				Gold	Tin/Lead
506-AG11D-ESL	506-AG11D				Low Gold	Tin/Lead	524-AG66D-ESL	524-AG66D				Low Gold	Tin/Lead
506-AG12D-ES	506-AG12D				Tin/Lead	Tin/Lead	524-AG13D-ES	524-AG13D				Tin/Lead	Tin/Lead
508-AG10D-ES	508-AG10D	1	8	.300 (7.62)	Gold	Gold	524-AG10D-ES	524-AG10D	2	24	.600 (15.24)	Gold	Gold
508-AG10D-ESL	508-AG10D				Low Gold	Gold	524-AG10D-ESL	524-AG10D				Low Gold	Gold
508-AG11D-ES	508-AG11D				Gold	Tin/Lead	524-AG11D-ES	524-AG11D				Gold	Tin/Lead
508-AG11D-ESL	508-AG11D				Low Gold	Tin/Lead	524-AG11D-ESL	524-AG11D				Low Gold	Tin/Lead
508-AG12D-ES	508-AG12D				Tin/Lead	Tin/Lead	524-AG12D-ES	524-AG12D				Tin/Lead	Tin/Lead
514-AG10D-ES	514-AG10D	1	14	.300 (7.62)	Gold	Gold	528-AG10D-ES	528-AG10D	2	28	.600 (15.24)	Gold	Gold
514-AG10D-ESL	514-AG10D				Low Gold	Gold	528-AG10D-ESL	528-AG10D				Low Gold	Gold
514-AG11D-ES	514-AG11D				Gold	Tin/Lead	528-AG11D-ES	528-AG11D				Gold	Tin/Lead
514-AG11D-ESL	514-AG11D				Low Gold	Tin/Lead	528-AG11D-ESL	528-AG11D				Low Gold	Tin/Lead
514-AG12D-ES	514-AG12D				Tin/Lead	Tin/Lead	528-AG12D-ES	528-AG12D				Tin/Lead	Tin/Lead
516-AG10D-ES	516-AG10D	1	16	.300 (7.62)	Gold	Gold	532-AG10D-ES	532-AG10D	2	32	.600 (15.24)	Gold	Gold
516-AG10D-ESL	516-AG10D				Low Gold	Gold	532-AG10D-ESL	532-AG10D				Low Gold	Gold
516-AG11D-ES	516-AG11D				Gold	Tin/Lead	532-AG11D-ES	532-AG11D				Gold	Tin/Lead
516-AG11D-ESL	516-AG11D				Low Gold	Tin/Lead	532-AG11D-ESL	532-AG11D				Low Gold	Tin/Lead
516-AG12D-ES	516-AG12D				Tin/Lead	Tin/Lead	532-AG12D-ES	532-AG12D				Tin/Lead	Tin/Lead
518-AG10D-ES	518-AG10D	1	18	.300 (7.62)	Gold	Gold	536-AG10D-ES	536-AG10D	2	36	.600 (15.24)	Gold	Gold
518-AG10D-ESL	518-AG10D				Low Gold	Gold	536-AG10D-ESL	536-AG10D				Low Gold	Gold
518-AG11D-ES	518-AG11D				Gold	Tin/Lead	536-AG11D-ES	536-AG11D				Gold	Tin/Lead
518-AG11D-ESL	518-AG11D				Low Gold	Tin/Lead	536-AG11D-ESL	536-AG11D				Low Gold	Tin/Lead
518-AG12D-ES	518-AG12D				Tin/Lead	Tin/Lead	536-AG12D-ES	536-AG12D				Tin/Lead	Tin/Lead
520-AG10D-ES	520-AG10D	1	20	.300 (7.62)	Gold	Gold	540-AG10D-ES	540-AG10D	2	40	.600 (15.24)	Gold	Gold
520-AG10D-ESL	520-AG10D				Low Gold	Gold	540-AG10D-ESL	540-AG10D				Low Gold	Gold
520-AG11D-ES	520-AG11D				Gold	Tin/Lead	540-AG11D-ES	540-AG11D				Gold	Tin/Lead
520-AG11D-ESL	520-AG11D				Low Gold	Tin/Lead	540-AG11D-ESL	540-AG11D				Low Gold	Tin/Lead
520-AG12D-ES	520-AG12D				Tin/Lead	Tin/Lead	540-AG12D-ES	540-AG12D				Tin/Lead	Tin/Lead
522-AG10D-ES	522-AG10D	1	22	.400 (10.16)	Gold	Gold	Note: Part numbers in this chart and in detail shown refer to a .125" PC Tail Pin						
522-AG10D-ESL	522-AG10D				Low Gold	Gold							
522-AG11D-ES	522-AG11D				Gold	Tin/Lead							
522-AG11D-ESL	522-AG11D				Low Gold	Tin/Lead							
522-AG12D-ES	522-AG12D				Tin/Lead	Tin/Lead							

#### ECONOMY AND PREMIUM SERIES - .180" PC TAIL PINS

- 5XX-AG44D-XXX - Gold contact, tin/lead sleeve
- 5XX-AG45D-XXX - Gold contact, gold sleeve
- 5XX-AG143D-XXX - Tin/lead contact, tin/lead sleeve

For wire wrap sockets or 24 position on .400" (10.16) in high retention or .180 (4.57) tails, please consult Tyco Electronics.

#### HIGH RETENTION SERIES

- 5XX-AG34D - Gold contact, tin/lead sleeve
- 5XX-AG33D - Gold contact, gold sleeve
- 5XX-AG38D - Tin/lead contact, tin/lead sleeve

**Note:** Before ordering, see Cross Reference in Section 15 for equivalent Tyco Electronics Part Number.