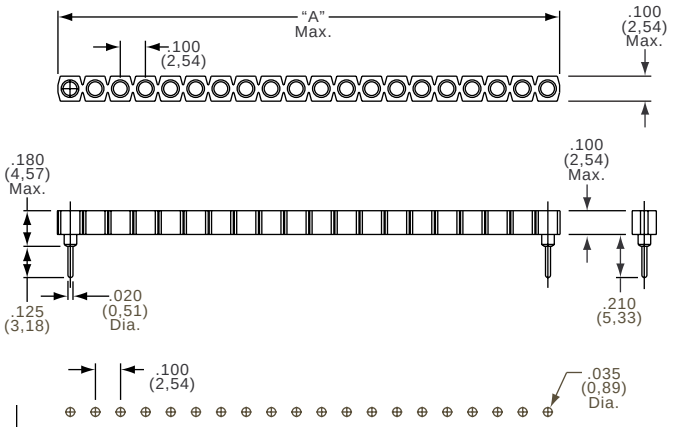
Terminal Strips, Four-Fingered Contact

500 Series

510AG91D08ESL



Recommended Hole Layout
Tolerance ±.002 (0,05) Unless Otherwise Noted

FEATURES:

- Available in strips of 1 to 20
- Breakaway feature for breaking strips into any desired shorter lengths (no special tooling required)
- Contact features closed end construction eliminating any solder or flux wicking problems
- Two-piece tapered entry closed entry inner contact and outer sleeve
- Accepts any IC lead and component leads .016" - .021" (0,41 - 0,53) dia., .105" (2,67) minimum length
- Uses: microprocessor sockets, hybrid IC sockets, Q.I.L. sockets, component sockets and test points
- Machined (Premium Series) and stamped (Economy Series) contacts are available

APPLICATION DIMENSIONS:

- PCB Thickness Range: Standard .062" and .092" (1,57 and 2,34)
- PCB Hole Size Range: .035" ± .003" (0,89 ± 0,08) 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" x .021" (0,41 x 0,53) round lead .105" (2,67) min. length

MATERIAL SPECIFICATIONS:

Insulator.....Thermoplastic polyester, UL rated 94V-0
Inner Contact.....Beryllium copper, gold or tin/lead plated
Sleeve .....Brass, gold or tin/lead plated

PART NUMBERS

Economy Series	Premium Series	Number of Contacts	Contact Plating	Sleeve Plating	Dim. A
510AG90D10ES	510-AG90D-10	10	Gold	Gold	1.000 (25,40)
510AG90D10ESL			Low Gold	Gold	
510AG91D10ES	510-AG91D-10		Gold	Tin/Lead	
510AG91D10ESL			Low Gold	Tin/lead	
510AG92D10ES	510-AG92D-10		Tin/Lead	Tin/Lead	
510AG90D20ES	510-AG90D-20	20	Gold	Gold	2.000 (50,80)
510AG90D20ESL			Low Gold	Gold	
510AG91D20ES	510-AG91D-20		Gold	Tin/Lead	
510AG91D20ESL			Low Gold	Tin/lead	
510AG92D20ES	510-AG92D-20		Tin/Lead	Tin/Lead	

For sizes not shown or for wire-wrap termination, please consult Tyco Electronics.

ECONOMY AND PREMIUM SERIES - .180 PC TAIL PINS

510-AG45D-XX, 510AG45DXXES(L) - Gold Contact, Gold Sleeve
510-AG44D-XX, 510AG44DXXES(L) - Gold Contact, Tin/Lead Sleeve
510-AG42D-XX, 510AG42DXXES(L) - Tin/Lead Contact, Tin/Lead Sleeve

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

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

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

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