



FIG. 1



FIG. 2



FIG. 3
(8 POS ONLY)



.210/.180
(STD .125 PC LEAD)
.265/.235
(LONG .180 PC LEAD)



P.C.B. HOLE LAYOUT
TOLERANCE $\pm .003$

1 **MATERIALS:**
INSULATOR: POLYESTER, UL RATED 94V-0
CONTACT:
800 & 1800 SERIES CONTACT: 4 BEAM, COPPER ALLOY, MACHINED (PREMIUM VERSION) OR FORMED (ECONOMY VERSION, WITH SUFFIX -ES OR -ESL).
800 SERIES HIGH RETENTION CONTACT: 4 BEAM, COPPER ALLOY, MACHINED.
1000 SERIES CONTACT: 6 BEAM, COPPER ALLOY, MACHINED (LOW INSERTION FORCE SERIES)
SLEEVE- ALL SERIES: COPPER ALLOY, FORMED

2 **ELECTRICAL:**
CONTACT RESISTANCE: 10 MILLIOHMS MAX
CONTACT RATING: 3 AMPS
CAPACITANCE: 1.0 pF PER MIL-STD-202, METHOD 305
INSULATION RESISTANCE: 5000 OHMS MIN @ 500 VDC PER MIL-STD-1344, METHOD 3003.1
DIELECTRIC WITHSTANDING VOLTAGE: 1000 VOLTS (RMS) PER MIL-STD-1344, METHOD 3001.1

3 **MECHANICAL:**
AFTER INSERTION FORCE: 37 GRAMS AVG (6 BEAM CONTACT) 134 GRAMS AVG (4 BEAM PREMIUM) 179 GRAMS AVG (4 BEAM ECONOMY) AND 334 GRAMS AVG (HIGH RETENTION)
AFTER WITHDRAWAL FORCE: 15 GRAMS AVG (6 BEAM CONTACT) 63 GRAMS AVG (4 BEAM PREMIUM OR ECONOMY) AND 245 GRAMS AVG (HIGH RETENTION)

4 **ENVIRONMENTAL:**
OPERATING TEMPERATURE: -55°C TO -105°C

5 **PLATING:** 25 μ MIN GOLD OVER 50 μ MIN NICKEL CONTACT WITH 5 μ MIN GOLD OVER 50 μ MIN NICKEL SLEEVE.

6 **PLATING:** 25 μ MIN GOLD OVER 50 μ MIN NICKEL CONTACT WITH 80 μ MIN TIN-LEAD OVER 50 μ MIN COPPER SLEEVE.

7 **PLATING:** 80 μ MIN TIN-LEAD OVER 75 μ MIN COPPER CONTACT WITH 180 μ MIN TIN-LEAD OVER 75 μ MIN NICKEL SLEEVE.

8 **PLATING:** 5 μ MIN GOLD FLASH OVER 50 μ MIN NICKEL CONTACT WITH 5 μ MIN GOLD FLASH OVER 50 μ MIN NICKEL SLEEVE.

9 **PLATING:** 5 μ MIN GOLD FLASH OVER 50 μ MIN NICKEL CONTACT WITH 80 μ MIN TIN-LEAD OVER 50 μ MIN COPPER SLEEVE.

10 **PLATING:** 7.5 μ MIN GOLD OVER 50 μ MIN NICKEL CONTACT WITH 80 μ MIN TIN-LEAD OVER 50 μ MIN COPPER SLEEVE.

11 PRELIMINARY PART - NOT RELEASED FOR PRODUCTION.

12 806-AGXXD-XXX SERIES IS SUPERSEDED BY 506-AGXXD-XXX SERIES (REFER TO CUSTOMER DRAWING 1437532-2)

13 **PLATING:** 25 μ MIN GOLD OVER 50 μ MIN NICKEL CONTACT WITH 80 μ MIN MATTE TIN OVER 50 μ MIN COPPER SLEEVE.

14 **PLATING:** 80 μ MIN MATTE TIN OVER 75 μ MIN COPPER CONTACT WITH 180 μ MIN MATTE TIN OVER 75 μ MIN NICKEL SLEEVE.

15 **PLATING:** 5 μ MIN GOLD FLASH OVER 50 μ MIN NICKEL CONTACT WITH 80 μ MIN MATTE TIN OVER 50 μ MIN COPPER SLEEVE.

16 **PLATING:** 7.5 μ MIN GOLD OVER 50 μ MIN NICKEL CONTACT WITH 80 μ MIN MATTE TIN OVER 50 μ MIN COPPER SLEEVE.

17 **OBsolete PARTS:** OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

8 XX - AX XXX D - XXX - LF
800 SERIES POSITIONS
LF = LEAD FREE
BLANK = MACHINED CONTACT
ES = FORMED CONTACT, GOLD PLATE, NOTE 1
ESL = FORMED CONTACT, LOW GOLD PLATE, 5 μ IN MAX
D = PC TAIL STANDARD
LSG STYLE AND TAIL CONFIGURATION
AG = INSULATOR
AR = INSULATOR WITH RAILS
(ALMOST RUN THE LENGTH UNDER THE INSULATOR INSIDE THE CONTACT ROWS, .075 REF HIGH & .045 REF WIDE)

THIS DRAWING IS A CONTROLLED DOCUMENT.		DIN R BROWN 06MAY04	Tyco Electronics Tyco Electronics Corporation Harrisburg, Pa 17105-3608
DIMENSIONS: INCHES		CHK K WRIGHT 06MAY04	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD K WRIGHT 06MAY04	NAME
0 PLC	$\pm .005$	PRODUCT SPEC	DIP SOCKET, 800 SERIES
1 PLC	$\pm .005$	APPLICATION SPEC	SIZE CAGE CODE DRAWING NO
2 PLC	$\pm .005$	WEIGHT	A1 00779 C=1437539-2
3 PLC	$\pm .005$	CUSTOMER DRAWING	SCALE 1:1 SHEET 1 OF 4 REV A3
4 PLC	$\pm .005$		
ANGLES	$\pm .005$		

800 SERIES STAMPED ECONOMY CONTACT LEAD FREE PART NUMBER TABLE

Table with columns: COMMENTS, PLATING, C, B, A, FIG, AUGAT PART NO., TE PART NO. Rows include part numbers like 848-AR11D-ES-LF, 840-AR12D-ES-LF, etc.

800 SERIES STAMPED ECONOMY CONTACT PART NUMBER TABLE

Table with columns: COMMENTS, PLATING, C, B, A, FIG, AUGAT PART NO., TE PART NO. Rows include part numbers like 824-AR47D-ESL, 824-AR44D-ESL, etc.

800 SERIES STAMPED ECONOMY CONTACT PART NUMBER TABLE

Table with columns: COMMENTS, PLATING, C, B, A, FIG, AUGAT PART NO., TE PART NO. Rows include part numbers like 864-AG12D-ES, 864-AG11D-ESL, etc.

THIS DRAWING IS A CONTROLLED DOCUMENT. Tyco Electronics Corporation. Harrisburg, Pa 17105-3608. DIMENSIONS: INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED: 0.1 PLC ± .010, 1.0 PLC ± .010, 2.0 PLC ± .010, 3.0 PLC ± .010, 4.0 PLC ± .010. ANGLES ± .1°. MATERIAL: - FINISH: - WEIGHT: - SIZE: A1 CASE CODE: 00779 DRAWING NO: 1437539-2 RESTRICTED TO: CUSTOMER DRAWING SCALE: 1:1 SHEET 3 OF 4 REV: A3

1000 SERIES MACHINED PREMIUM CONTACT, LOW INSERTION FORCE PART NUMBER TABLE

COMMENTS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.
S/B 4-1437538-8	6	.895/.905	1.000	3.200	2	1064-AG11D	2-1437529-4
S/B 3-1437540-1	5	.895/.905	1.000	3.200	2	1064-AG10D	2-1437529-3
S/B 3-1437538-0	6	.595/.605	.700	2.000	2	1040-AG11D	2-1437529-2
S/B 2-1437538-2	6	.595/.605	.700	1.600	2	1032-AG11D	2-1437529-1
S/B 1437538-4	6	.595/.605	.700	1.400	1	1028-AG11D	1-1437529-9
S/B 8-1437537-9	6	.295/.305	.400	1.200	1	1024-AG31D	1-1437529-8
S/B 8-1437537-2	6	.595/.605	.700	1.200	1	1024-AG11D	1-1437529-6
S/B 8-1437537-1	5	.595/.605	.700	1.200	1	1024-AG10D	1-1437529-5
S/B 6-1437537-6	6	.295/.305	.400	1.000	1	1020-AG11D	1-1437529-4
S/B 6-1437537-4	5	.295/.305	.400	1.000	1	1020-AG10D	1-1437529-3
S/B 5-1437537-7	6	.295/.305	.400	.900	1	1018-AG11D	1-1437529-2
S/B 5-1437537-6	5	.295/.305	.400	.900	1	1018-AG10D	1-1437529-1
S/B 4-1437537-0	6	.295/.305	.400	.800	1	1016-AG11D	1-1437529-0
S/B 3-1437537-7	5	.295/.305	.400	.800	1	1016-AG10D	0-1437529-9
S/B 2-1437537-4	6	.295/.305	.400	.700	1	1014-AG11D	0-1437529-7
S/B 2-1437537-1	5	.295/.305	.400	.700	1	1014-AG10D	0-1437529-6
S/B 1437537-8	6	.295/.305	.400	.400	3	1008-AG11D	0-1437529-5
S/B 1437537-5	5	.295/.305	.400	.400	3	1008-AG10D	0-1437529-4

1800 SERIES MACHINED PREMIUM CONTACT, LOW GOLD PART NUMBER TABLE

	S/B 5-1437538-0	10	.895/.905	1.000	3.200	2	1864-AG111D	5-1437529-1
	S/B 6-1437540-2 W/RAILS	10	.595/.605	.700	2.400	2	1848-AR111D	5-1437529-0
	S/B 4-1437538-2	10	.595/.605	.700	2.100	2	1848-AG111D	4-1437529-9
	S/B 2-1437540-4	10	.595/.605	.700	2.100	2	1842-AG111D	4-1437529-8
	S/B 2-1437540-2 W/RAILS	10	.595/.605	.700	2.000	2	1840-AR111D	4-1437529-7
	S/B 1-1437540-7	10	.595/.605	.700	2.000	2	1840-AG111D	4-1437529-6
	S/B 1437540-3	10	.595/.605	.700	1.600	2	1832-AG111D	4-1437529-5
	S/B 9-1437539-7 W/RAILS	10	.595/.605	.700	1.400	1	1828-AR111D	4-1437529-4
	S/B 9-1437539-2	10	.595/.605	.700	1.400	1	1828-AG111D	4-1437529-3
	S/B 3-1437540-9 W/RAILS	10	.295/.305	.400	1.200	1	1824-AR131D	4-1437529-2
OBSOLETE	S/B 8-1437539-6 W/RAILS	10	.595/.605	.700	1.200	1	1824-AR111D	4-1437529-1
OBSOLETE	S/B 8-1437539-4	10	.395/.405	.500	1.200	1	1824-AG141D	4-1437529-0
	S/B 7-1437539-7	10	.295/.305	.400	1.200	1	1824-AG131D	3-1437529-9
	S/B 7-1437539-0	10	.595/.605	.700	1.200	1	1824-AG111D	3-1437529-8
	S/B 6-1437539-3	10	.395/.405	.500	1.100	1	1822-AG111D	3-1437529-7
	S/B 5-1437539-8 W/RAILS	10	.295/.305	.400	1.000	1	1820-AR111D	3-1437529-6
SUPERSEDED	S/B 5-1437539-3	10	.295/.305	.400	1.000	1	1820-AG111D	3-1437529-5
	S/B 4-1437539-8 W/RAILS	10	.295/.305	.400	.900	1	1818-AR111D	3-1437529-5
	S/B 4-1437539-4	10	.295/.305	.400	.900	1	1818-AG111D	3-1437529-3
OBSOLETE	S/B 3-1437539-5 W/RAILS	10	.295/.305	.400	.800	1	1816-AR111D	3-1437529-2
	S/B 2-1437539-9	10	.295/.305	.400	.800	1	1816-AG111D	3-1437529-1
	S/B 2-1437539-3 W/RAILS	10	.295/.305	.400	.700	1	1814-AR111D	3-1437529-0
	S/B 1-1437539-7	10	.295/.305	.400	.700	1	1814-AG111D	2-1437529-9
	S/B 1-1437539-1 W/RAILS	10	.295/.305	.400	.400	3	1808-AR111D	2-1437529-6
	S/B 1437539-6	10	.295/.305	.400	.400	3	1808-AG111D	2-1437529-5
OBSOLETE	S/B 1437539-8	10	.295/.305	.400	.300		1806-AG111D	0-1437535-2

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DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DIN R BROWN 06MAY04	Tyco Electronics Corporation Harrisburg, Pa 17105-3608
	0 PLC ± - 1 PLC ± - 2 PLC ± - 3 PLC ± .005 4 PLC ± - ANGLES ± -	CHK K WRIGHT 06MAY04	
MATERIAL	FINISH	APVD K WRIGHT 06MAY04	NAME
		APPLICATION SPEC	DIP SOCKET, 800 SERIES
		WEIGHT	SIZE CASE CODE DRAWING NO
			A1 00779 1437539-2
		CUSTOMER DRAWING	RESTRICTED TO
		SCALE 1:1	SHEET 4 OF 4