

REVISONS		DATE	BY	APP'D
AD	00			
A3	REVISED PER ECO-10-019941	16FEB11	HMR	MM



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 $\mu$  MIN GOLD OVER 50 $\mu$  MIN NICKEL CONTACT WITH 5 $\mu$  MIN GOLD OVER 50 $\mu$  MIN NICKEL SLEEVE.

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

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

8 **PLATING:** 5 $\mu$  MIN GOLD FLASH OVER 50 $\mu$  MIN NICKEL CONTACT WITH 5 $\mu$  MIN GOLD FLASH OVER 50 $\mu$  MIN NICKEL SLEEVE.

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

10 **PLATING:** 7.5 $\mu$  MIN GOLD OVER 50 $\mu$  MIN NICKEL CONTACT WITH 80 $\mu$  MIN TIN-LEAD OVER 50 $\mu$  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12 806-AGXXD-XXX SERIES IS SUPERSEDED BY 506-AGXXD-XXX SERIES (REFER TO CUSTOMER DRAWING 1437532-2)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 $\mu$  MIN GOLD OVER 50 $\mu$  MIN NICKEL CONTACT WITH 80 $\mu$  MIN MATTE TIN OVER 50 $\mu$  MIN COPPER SLEEVE.

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

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

16 **PLATING:** 7.5 $\mu$  MIN GOLD OVER 50 $\mu$  MIN NICKEL CONTACT WITH 80 $\mu$  MIN MATTE TIN OVER 50 $\mu$  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 $\mu$ 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:		APP'D K WRIGHT 06MAY04	NAME
0 PLC	$\pm$ -	PRODUCT SPEC	DIP SOCKET, 800 SERIES
1 PLC	$\pm$ -	APPLICATION SPEC	SIZE CAGE CODE DRAWING NO
2 PLC	$\pm$ -	WEIGHT	A1 00779 C=1437539-2
3 PLC	$\pm$ .005	CUSTOMER DRAWING	SCALE 1:1 SHEET 1 OF 4 REV A3
4 PLC	$\pm$ -		
ANGLES	$\pm$ -		

### 800 SERIES MACHINED PREMIUM CONTACT LEAD FREE PART NUMBER TABLE

COMMENTS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.
						864-AG34D-LF	5-6437538-4
						848-AG34D-LF	9-1437538-5
OBSOLETE						840-AR11D-LF	8-1437538-6
						840-AG43D-LF	8-1437538-4
						840-AG34D-LF	8-1437538-3
						832-AG38D-LF	9-6437533-4
						832-AG34D-LF	2-6437538-5
OBSOLETE						828-AR12D-LF	6-6437538-9
OBSOLETE						828-AR11D-LF	1-6437538-6
						828-AG43D-LF	6437538-4
						828-AG34D-LF	1-6437538-3
						824-AR31D-LF	5-6437538-1
						824-AR11D-LF	9-6437537-9
						824-AG47D-LF	9-6437537-7
						824-AG446D-LF	9-6437537-6
						824-AG34D-LF	9-6437537-5
						824-AG338D-LF	9-6437537-4
						824-AG334D-LF	9-6437537-3
						820-AG43D-LF	7-6437537-3
						820-AG34D-LF	7-6437537-2
						818-AR44D-LF	4-6437539-9
						818-AR11D-LF	6-6437537-2
						816-AR11D-LF	5-6437537-4
						816-AG34D-LF	5-6437537-1
						814-AR11D-LF	3-6437537-5
						814-AG43D-LF	3-6437537-2
						814-AG34D-LF	3-6437537-1
						808-AR11D-LF	1-6437537-9
						808-AG43D-LF	6437537-5
						808-AG34D-LF	6437537-4

### 800 SERIES MACHINED PREMIUM CONTACT PART NUMBER TABLE

COMMENTS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.
						824-AR31D	0-1437538-1
						824-AR11D	9-1437537-9
						824-AG66D	9-1437537-8
						824-AG47D	9-1437537-7
						824-AG45D	6-1437538-6
						824-AG446D	9-1437537-6
						824-AG34D	9-1437537-5
						824-AG33D	8-1437539-2
						824-AG338D	9-1437537-4
						824-AG334D	9-1437537-3
						824-AG32D	9-1437537-2
						824-AG31D	8-1437537-9
						824-AG30D	8-1437537-7
						824-AG14D	8-1437537-6
						824-AG12D	8-1437537-5
						824-AG11D	8-1437537-2
						824-AG10D	8-1437537-1
						822-AG11D	7-1437537-8
						822-AG10D	7-1437537-7
						820-AR11D	7-1437537-6
						820-AG45D	7-1437537-5
						820-AG44D	7-1437537-4
						820-AG43D	7-1437537-3
						820-AG34D	7-1437537-2
						820-AG12D	6-1437537-9
						820-AG11D	6-1437537-6
						820-AG10D	6-1437537-4
						818-AR44D	4-1437539-9
						818-AR11D	6-1437537-2
						818-AG44D	6-1437537-1
						818-AG34D	5-1437538-8
						818-AG12D	6-1437537-0
						818-AG11D	5-1437537-7
						818-AG10D	5-1437537-6
						816-AR11D	5-1437537-4
						816-AG45D	5-1437537-3
						816-AG44D	5-1437537-2
						816-AG34D	5-1437537-1
						816-AG33D	5-1437537-0
						816-AG12D	4-1437537-6
						816-AG11D	4-1437537-0
						816-AG10D	3-1437537-7
						814-AR44D	5-1437533-2
						814-AR11D	3-1437537-5
						814-AG45D	3-1437537-4
						814-AG44D	3-1437537-3
						814-AG34D	3-1437537-2
						814-AG33D	3-1437537-1
						814-AG12D	2-1437537-9
						814-AG11D	2-1437537-4
						814-AG10D	2-1437537-1
						808-AR11D	1-1437537-9
						808-AG45D	1-1437537-8
						808-AG44D	1-1437537-7
						808-AG43D	1-1437537-5
						808-AG34D	1-1437537-4
						808-AG12D	1-1437537-2
						808-AG11D	0-1437537-8
						808-AG10D	0-1437537-5
						806-AG11D	2-1437533-5
						806-AG10D	2-1437533-3

### 800 SERIES MACHINED PREMIUM CONTACT PART NUMBER TABLE

COMMENTS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.
						864-AG34D	5-1437538-4
						864-AG12D	5-1437538-2
						864-AG11D	4-1437538-8
						864-AG10D	3-1437540-1
						848-AR11D	4-1437538-6
						848-AG34D	4-1437538-5
						848-AG12D	4-1437538-4
						848-AG11D	4-1437538-1
						848-AG10D	3-1437538-9
						842-AG12D	3-1437538-8
						842-AG11D	3-1437538-7
						840-AR11D	3-1437538-6
						840-AG44D	3-1437538-5
						840-AG43D	3-1437538-4
						840-AG34D	3-1437538-3
						840-AG12D	3-1437538-2
						840-AG11D	3-1437538-0
						840-AG10D	2-1437538-9
						836-AG11D	2-1437538-7
						832-AR12D	9-1437533-7
						832-AG38D	9-1437533-4
						832-AG34D	2-1437538-5
						832-AG12D	2-1437538-4
						832-AG11D	2-1437538-2
						832-AG10D	2-1437538-1
						828-AR12D	6-1437538-9
						828-AR11D	1-1437538-6
						828-AG44D	1-1437538-5
						828-AG43D	1-1437538-4
						828-AG34D	1-1437538-3
						828-AG12D	1-1437538-0
						828-AG11D	0-1437538-4
						828-AG10D	0-1437538-3

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DIN R BROWN O6MAY04  
 CHK K WRIGHT O6MAY04  
 APVO K WRIGHT O6MAY04

TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 0. PLC ± -  
 1. PLC ± -  
 2. PLC ± -  
 3. PLC ± .005  
 4. PLC ± -  
 ANGLES ± -

APPLICABLE SPEC: PRODUCT SPEC

SIZE: A1  
 CASE CODE: 00779  
 DRAWING NO: 1437539-2

RESTRICTED TO: CUSTOMER DRAWING

SCALE: 1:1 SHEET: 2 OF 4 REV: A3

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Tyco Electronics Corporation  
 Harrisburg, Pa 17105-3608

DIP SOCKET, 800 SERIES

800 SERIES STAMPED ECONOMY CONTACT LEAD FREE PART NUMBER TABLE

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

800 SERIES STAMPED ECONOMY CONTACT PART NUMBER TABLE

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

800 SERIES STAMPED ECONOMY CONTACT PART NUMBER TABLE

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

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### 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

THIS DRAWING IS A CONTROLLED DOCUMENT.

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	SCALE 1:1 SHEET 4 OF 4 REV A3