



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12 806-AGXXD-XXX SERIES IS SUPERSEDED BY 506-AGXXD-XXX SERIES (REFER TO CUSTOMER DRAWING 1437532-2)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:		APVD 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 A4
4 PLC	$\pm$ -		
ANGLES	$\pm$ -		

800 SERIES MACHINED PREMIUM CONTACT LEAD FREE PART NUMBER TABLE

Table with columns for COMMENTS, PLATING, C, B, A, FIG, AUGAT PART NO., and TE PART NO. listing various contact part numbers and their specifications.

800 SERIES MACHINED PREMIUM CONTACT PART NUMBER TABLE

Table with columns for COMMENTS, PLATING, C, B, A, FIG, AUGAT PART NO., and TE PART NO. listing various contact part numbers and their specifications, including some with circled callouts like (A4).

800 SERIES MACHINED PREMIUM CONTACT PART NUMBER TABLE

Table with columns for COMMENTS, PLATING, C, B, A, FIG, AUGAT PART NO., and TE PART NO. listing various contact part numbers and their specifications.

Technical drawing footer containing drawing title, dimensions, tolerances, material, weight, and revision information.

### 800 SERIES STAMPED ECONOMY CONTACT LEAD FREE PART NUMBER TABLE

OBSOLETE	W/RAILS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.
OBSOLETE	W/RAILS						848-AR11D-ES-LF	8-1437540-0
OBSOLETE	W/RAILS						840-AR12D-ES-LF	6-6447099-8
OBSOLETE	W/RAILS						840-AR11D-ESL-LF	7-1437540-2
OBSOLETE	W/RAILS						840-AR11D-ES-LF	7-1437540-1
	.180 PC LEAD						840-AG44D-ESL-LF	7-1437540-0
OBSOLETE	W/RAILS						832-AR11D-ESL-LF	0-6437540-9
OBSOLETE	W/RAILS						832-AR11D-ES-LF	0-6437540-8
	.180 PC LEAD						832-AG44D-ES-LF	0-6437540-7
	.180 PC LEAD						832-AG43D-ES-LF	0-6437540-6
OBSOLETE	.180 PC LEAD W/RAILS						828-AR44D-ESL-LF	9-6437539-8
OBSOLETE	W/RAILS						828-AR12D-ES-LF	6-6447099-7
OBSOLETE	W/RAILS						828-AR11D-ES-LF	9-6437539-6
	.180 PC LEAD						828-AG44D-ES-LF	9-6437539-5
OBSOLETE	.180 PC LEAD W/RAILS						824-AR47D-ESL-LF	8-6437533-3
OBSOLETE	W/RAILS						824-AR31D-ES-LF	8-6437539-7
OBSOLETE	W/RAILS						824-AR12D-ES-LF	6-6447099-6
	.180 PC LEAD						824-AG44D-ESL-LF	8-6437539-3
	.180 PC LEAD						822-AG44D-ES-LF	6-6437539-5
	.180 PC LEAD						820-AR11D-ESL-LF	5-6437539-8
	.180 PC LEAD						820-AR11D-ES-LF	5-6437539-7
	.180 PC LEAD						816-AR11D-ESL-LF	3-6437539-5
	.180 PC LEAD						816-AR11D-ES-LF	3-6437539-4
	.180 PC LEAD						816-AG44D-ESL-LF	3-6437539-2
	.180 PC LEAD						814-AR11D-ES-LF	2-6437539-2
	.180 PC LEAD						808-AR11D-ES-LF	1-6437539-0
	.180 PC LEAD						808-AG43D-ES-LF	6437537-6
	COMMENTS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.

### 800 SERIES STAMPED ECONOMY CONTACT PART NUMBER TABLE

OBSOLETE	W/RAILS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.
OBSOLETE	W/RAILS						864-AG12D-ES	5-1437538-3
OBSOLETE	W/RAILS						864-AG11D-ESL	5-1437538-0
OBSOLETE	W/RAILS						864-AG11D-ES	4-1437538-9
OBSOLETE	W/RAILS						864-AG10D-ES	3-1437540-2
	.180 PC LEAD						848-AR11D-ESL	6-1437540-2
	.180 PC LEAD						848-AR11D-ES	3-1437540-0
	.180 PC LEAD						848-AG12D-ES	2-1437540-8
	.180 PC LEAD						848-AG11D-ESL	4-1437538-2
	.180 PC LEAD						848-AG11D-ES	2-1437540-6
	.180 PC LEAD						848-AG10D-ES	2-1437540-5
	.180 PC LEAD						842-AG11D-ESL	2-1437540-4
	.180 PC LEAD						842-AG11D-ES	2-1437540-3
	.180 PC LEAD						840-AR44D-ESL	0-1437534-7
	.180 PC LEAD						840-AR12D-ES	6-1447099-8
	.180 PC LEAD						840-AR11D-ESL	2-1437540-2
	.180 PC LEAD						840-AR11D-ES	2-1437540-1
	.180 PC LEAD						840-AG44D-ESL	2-1437540-0
	.180 PC LEAD						840-AG12D-ES	1-1437540-9
	.180 PC LEAD						840-AG11D-ESL	1-1437540-7
	.180 PC LEAD						840-AG11D-ES	1-1437540-6
	.180 PC LEAD						840-AG10D-ES	1-1437540-4
	.180 PC LEAD						836-AG12D-ES	1-1437540-2
	.180 PC LEAD						836-AG11D-ESL	1-1437540-1
	.180 PC LEAD						836-AG11D-ES	1-1437540-0
	.180 PC LEAD						832-AR11D-ESL	0-1437540-9
	.180 PC LEAD						832-AR11D-ES	0-1437540-8
	.180 PC LEAD						832-AG45D-ESL	6-1437538-0
	.180 PC LEAD						832-AG44D-ESL	9-1437533-5
	.180 PC LEAD						832-AG44D-ES	0-1437540-7
	.180 PC LEAD						832-AG43D-ES	0-1437540-6
	.180 PC LEAD						832-AG12D-ES	0-1437540-5
	.180 PC LEAD						832-AG11D-ESL	0-1437540-3
	.180 PC LEAD						832-AG11D-ES	0-1437540-2
	.180 PC LEAD						832-AG10D-ES	0-1437540-1
	.180 PC LEAD						828-AR44D-ESL	9-1437539-8
	.180 PC LEAD						828-AR12D-ES	6-1447099-7
	.180 PC LEAD						828-AR11D-ESL	9-1437539-7
	.180 PC LEAD						828-AR11D-ES	9-1437539-6
	.180 PC LEAD						828-AG44D-ES	9-1437539-5
	.180 PC LEAD						828-AG12D-ES	9-1437539-4
	.180 PC LEAD						828-AG11D-ESL	9-1437539-2
	.180 PC LEAD						828-AG11D-ES	9-1437539-1
	.180 PC LEAD						828-AG10D-ES	8-1437539-9
	COMMENTS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.

### 800 SERIES STAMPED ECONOMY CONTACT PART NUMBER TABLE

OBSOLETE	W/RAILS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.
OBSOLETE	W/RAILS						864-AG12D-ES	5-1437538-3
OBSOLETE	W/RAILS						864-AG11D-ESL	5-1437538-0
OBSOLETE	W/RAILS						864-AG11D-ES	4-1437538-9
OBSOLETE	W/RAILS						864-AG10D-ES	3-1437540-2
	.180 PC LEAD						848-AR11D-ESL	6-1437540-2
	.180 PC LEAD						848-AR11D-ES	3-1437540-0
	.180 PC LEAD						848-AG12D-ES	2-1437540-8
	.180 PC LEAD						848-AG11D-ESL	4-1437538-2
	.180 PC LEAD						848-AG11D-ES	2-1437540-6
	.180 PC LEAD						848-AG10D-ES	2-1437540-5
	.180 PC LEAD						842-AG11D-ESL	2-1437540-4
	.180 PC LEAD						842-AG11D-ES	2-1437540-3
	.180 PC LEAD						840-AR44D-ESL	0-1437534-7
	.180 PC LEAD						840-AR12D-ES	6-1447099-8
	.180 PC LEAD						840-AR11D-ESL	2-1437540-2
	.180 PC LEAD						840-AR11D-ES	2-1437540-1
	.180 PC LEAD						840-AG44D-ESL	2-1437540-0
	.180 PC LEAD						840-AG12D-ES	1-1437540-9
	.180 PC LEAD						840-AG11D-ESL	1-1437540-7
	.180 PC LEAD						840-AG11D-ES	1-1437540-6
	.180 PC LEAD						840-AG10D-ES	1-1437540-4
	.180 PC LEAD						836-AG12D-ES	1-1437540-2
	.180 PC LEAD						836-AG11D-ESL	1-1437540-1
	.180 PC LEAD						836-AG11D-ES	1-1437540-0
	.180 PC LEAD						832-AR11D-ESL	0-1437540-9
	.180 PC LEAD						832-AR11D-ES	0-1437540-8
	.180 PC LEAD						832-AG45D-ESL	6-1437538-0
	.180 PC LEAD						832-AG44D-ESL	9-1437533-5
	.180 PC LEAD						832-AG44D-ES	0-1437540-7
	.180 PC LEAD						832-AG43D-ES	0-1437540-6
	.180 PC LEAD						832-AG12D-ES	0-1437540-5
	.180 PC LEAD						832-AG11D-ESL	0-1437540-3
	.180 PC LEAD						832-AG11D-ES	0-1437540-2
	.180 PC LEAD						832-AG10D-ES	0-1437540-1
	.180 PC LEAD						828-AR44D-ESL	9-1437539-8
	.180 PC LEAD						828-AR12D-ES	6-1447099-7
	.180 PC LEAD						828-AR11D-ESL	9-1437539-7
	.180 PC LEAD						828-AR11D-ES	9-1437539-6
	.180 PC LEAD						828-AG44D-ES	9-1437539-5
	.180 PC LEAD						828-AG12D-ES	9-1437539-4
	.180 PC LEAD						828-AG11D-ESL	9-1437539-2
	.180 PC LEAD						828-AG11D-ES	9-1437539-1
	.180 PC LEAD						828-AG10D-ES	8-1437539-9
	COMMENTS	PLATING	C	B	A	FIG	AUGAT PART NO.	TE PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT. DIMENSIONS: INCHES. TOLERANCES UNLESS OTHERWISE SPECIFIED: 0.1 PL ± .010, 1.0 PL ± .010, 2.0 PL ± .010, 3.0 PL ± .010, 4.0 PL ± .010, ANGLES ± .005. MATERIAL: - FINISH: - WEIGHT: - APPLICATION SPEC: - CUSTOMER DRAWING: -

DIP SOCKET, 800 SERIES

SCALE 1:1 SHEET 3 OF 4 REV A4

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:  
 0. PLC ± .005  
 1. PLC ± .005  
 2. PLC ± .005  
 3. PLC ± .005  
 4. PLC ± .005  
 ANGLES ± .005

MATERIAL: - FINISH: -

APPROVED: K. WRIGHT  
 NAME: Tyco Electronics Corporation  
 ADDRESS: Harrisburg, Pa 17105-3608  
 PRODUCT SPEC: DIP SOCKET, 800 SERIES  
 APPLICATION SPEC: -  
 SIZE: A1  
 CASE CODE: 00779  
 DRAWING NO: 1437539-2  
 WEIGHT: -  
 CUSTOMER DRAWING: -  
 SCALE: 1:1  
 SHEET: 4 OF 4  
 REV: A4

# Mouser Electronics

Authorized Distributor

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[TE Connectivity:](#)

[820-AG12D](#)