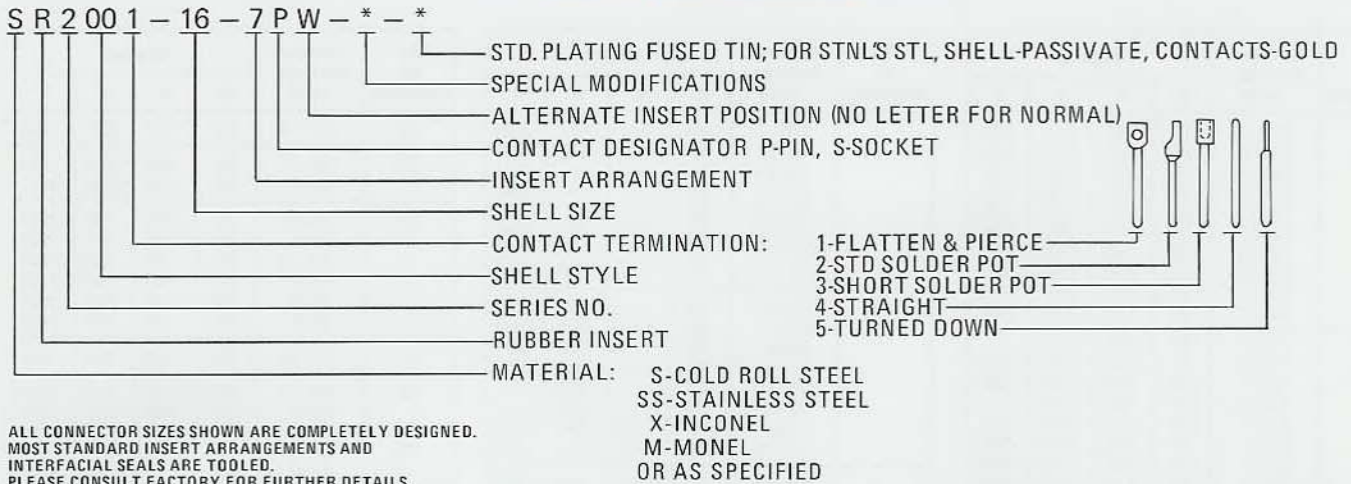


## NUMBERING SYSTEM



ALL CONNECTOR SIZES SHOWN ARE COMPLETELY DESIGNED. MOST STANDARD INSERT ARRANGEMENTS AND INTERFACIAL SEALS ARE TOOLED. PLEASE CONSULT FACTORY FOR FURTHER DETAILS.



Hermetic Seal Corporation Series 2000 hermetic sealed circular connectors with non-removable solder contacts are for use in hermetically sealed electronic, electric power and control circuit devices, military and commercial. Their performance requirements are determined by the particular application.

THERMOCOUPLE CONTACTS are available in Hermetic Seal Corporation connectors. Standard materials are Iron and Constantan; Alumel and Chromel. These contacts are normally supplied in flatten and pierce termination without plating.

HERMETICITY of  $1 \times 10^{-8}$  is available in Hermetic Seal Corporation connectors to meet extreme requirements.

HIGH PRESSURE connectors can also be manufactured for special application.

## GENERAL SPECIFICATIONS

**AIR LEAKAGE (HERMETICITY)**  
 LEAKAGE RATE LESS THAN 0.1 MICRON CUBIC FOOT PER HOUR ( $1 \times 10^{-6}$  cc/sec) AT 15 P.S.I.

**INSERT RETENTION**  
 INSERT WILL WITHSTAND 200 P.S.I. WITHOUT DAMAGE.

**THERMAL SHOCK**  
 NO EVIDENCE OF DAMAGE DETRIMENTAL TO OPERATION OF CONNECTOR AT  $-55^{\circ}\text{C}$  ( $-67^{\circ}\text{F}$ ) TO  $+175^{\circ}\text{C}$  ( $+347^{\circ}\text{F}$ ).

**INSULATION RESISTANCE**  
 GREATER THAN 5,000 MEGOHMS/500 VDC,  $25^{\circ}\text{C}$  PER MIL-STD-202, METHOD 302.

**DIELECTRIC WITHSTANDING VOLTAGE**  
 CONNECTORS SHOW NO EVIDENCE OF BREAKDOWN OR FLASHOVER WHEN TESTED AT VOLTAGES SHOWN IN ACCORDANCE WITH MIL-STD-202, METHOD 301.

Service Rating	Test Voltage (RMS)	
	Sea Level	70,000 Ft.
INST.	1000	260
A	2000	360
D	2800	400
E	3500	440
B	4500	480
C	7000	560

**SHOCK**  
 MATED CONNECTORS SHOW NO EVIDENCE OF DAMAGE AFTER SHOCK TEST PER MIL-C-5015.

**CORROSION**  
 CONNECTORS WILL MEET SALT SPRAY TEST PER MIL-STD-202, METHOD 101.

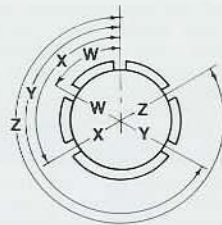
### ALTERNATE INSERT POSITIONS

No. of Contacts	Contact Arrangement	Degrees				
		W	X	Y	Z	
2	12S-3	70	145	215	290	
	14S-9	70	145	215	290	
	16S-4	35	110	250	325	
	16-11	35	110	250	325	
	16-13	35	110	250	325	
	18-3	35	110	250	325	
	18-14	80	110	250	280	
	20-23	35	110	250	325	
	22-11	35	110	250	325	
	24-1	80	110	250	280	
3	14S-7	90	180	270	—	
	16S-5	70	145	215	290	
	16-7	80	110	250	280	
	16-10	90	180	270	—	
	18-5	80	110	250	280	
	22-2	70	145	215	290	
	22-9	70	145	215	290	
	22-21	80	110	250	280	
	28-3	70	145	215	290	
	4	14S-2	—	120	240	—
16-9		35	110	250	325	
18-4		35	110	250	325	
18-13		80	110	250	280	
18-15		—	120	240	—	
20-4		45	110	250	—	
20-24		35	110	250	325	
22-10		35	110	250	325	
22-22		—	110	250	—	
24-4		80	110	250	280	
24-22		45	110	250	—	
32-17		45	110	250	—	
36-5		—	120	240	—	
5		14S-5	—	110	—	—
	16S-8	—	170	265	—	
	18-11	—	170	265	—	
	20-14	80	110	250	280	
	22-12	80	110	250	280	
	24-12	80	110	250	280	
	24-17	80	110	250	280	
	28-5	35	110	250	325	
	32-1	80	110	250	280	
	32-2	70	145	215	290	
	6	18-12	80	—	—	280
		20-8	80	110	250	280
		20-17	90	180	270	—
		20-22	80	110	250	280
22-5		35	110	250	325	
22-15		80	110	250	280	
28-22		70	145	215	290	
36-3		70	145	215	290	
36-6		35	110	250	325	

No. of Contacts	Contact Arrangement	Degrees			
		W	X	Y	Z
7	16S-1	80	—	—	280
	18-9	80	110	250	280
	20-15	80	—	—	280
	24-2	80	—	—	280
	24-10	80	—	—	280
	24-16	80	110	250	280
	24-27	80	—	—	280
	28-10	80	110	250	280
8	18-8	70	—	—	290
	20-7	80	110	250	280
	20-9	80	110	250	280
	22-18	80	110	250	280
	22-23	35	—	—	250
	22-36	90	—	—	270
	24-6	80	110	250	280
	32-15	35	110	250	280
9	20-16	80	110	250	280
	20-18	35	110	250	325
	20-21	35	110	250	325
	22-17	80	110	250	280
	22-27	80	—	—	250
	24-11	35	110	250	325
	28-1	80	110	250	280
	28-4	80	110	250	280
32-3	80	110	250	280	
10	18-1	70	145	215	290
	24-21	80	110	250	280
	28-19	80	110	250	280
11	24-20	80	110	250	280
12	28-8	80	110	250	280
	28-9	80	110	250	280
	28-18	70	145	215	290
	32-101	65	125	225	310
14	20-27	35	110	250	325
	22-19	80	110	250	280
	28-2	35	110	250	325
	28-20	80	110	250	280
	32-9	80	110	250	280
	32-102	65	125	225	310
	15	28-17	80	110	250
40-5		80	110	250	280
48-1		65	125	225	310
16	24-5	80	110	250	280
	24-7	80	110	250	280
17	20-29	80	—	—	280
19	22-14	80	—	—	280

No. of Contacts	Contact Arrangement	Degrees			
		W	X	Y	Z
20	28-16	80	110	250	280
22	28-11 40-7	80	110	250	280
		80	110	250	280
23	24-80 32-6 32-13 40-2 40-3 40-4	35	145	240	300
		80	110	250	280
		80	110	250	280
		80	110	250	280
		80	110	250	280
		80	110	250	280
24	24-28	80	110	250	280
25	40-11 48-3	80	110	250	280
		65	125	225	310
26	28-12 40-6	90	180	270	—
		80	110	250	280
29	40-10	65	125	225	310
30	40-1	65	130	235	300
31	36-9 44-2 44-3	80	125	235	280
		65	125	225	310
		65	125	225	310
35	28-15 32-7 36-15	80	110	250	280
		80	125	235	280
		60	125	245	305
37	28-21	80	110	250	280
41	44-4	65	125	225	310
42	44-1	65	125	225	310
46	32-73	36	—	—	—
47	36-7 36-8 40-9 48-2	80	110	250	280
		80	110	250	280
		65	125	225	310
		65	125	225	310
48	36-10	80	125	235	280
		72	144	216	288
52	36-52	72	144	216	288
▲54	32-22	80	110	250	280
60	40-62	30	130	220	290
68	48-4	65	125	225	310
85	40-56 48-62	72	144	216	288
		72	114	216	288
104	44-52	72	135	225	288

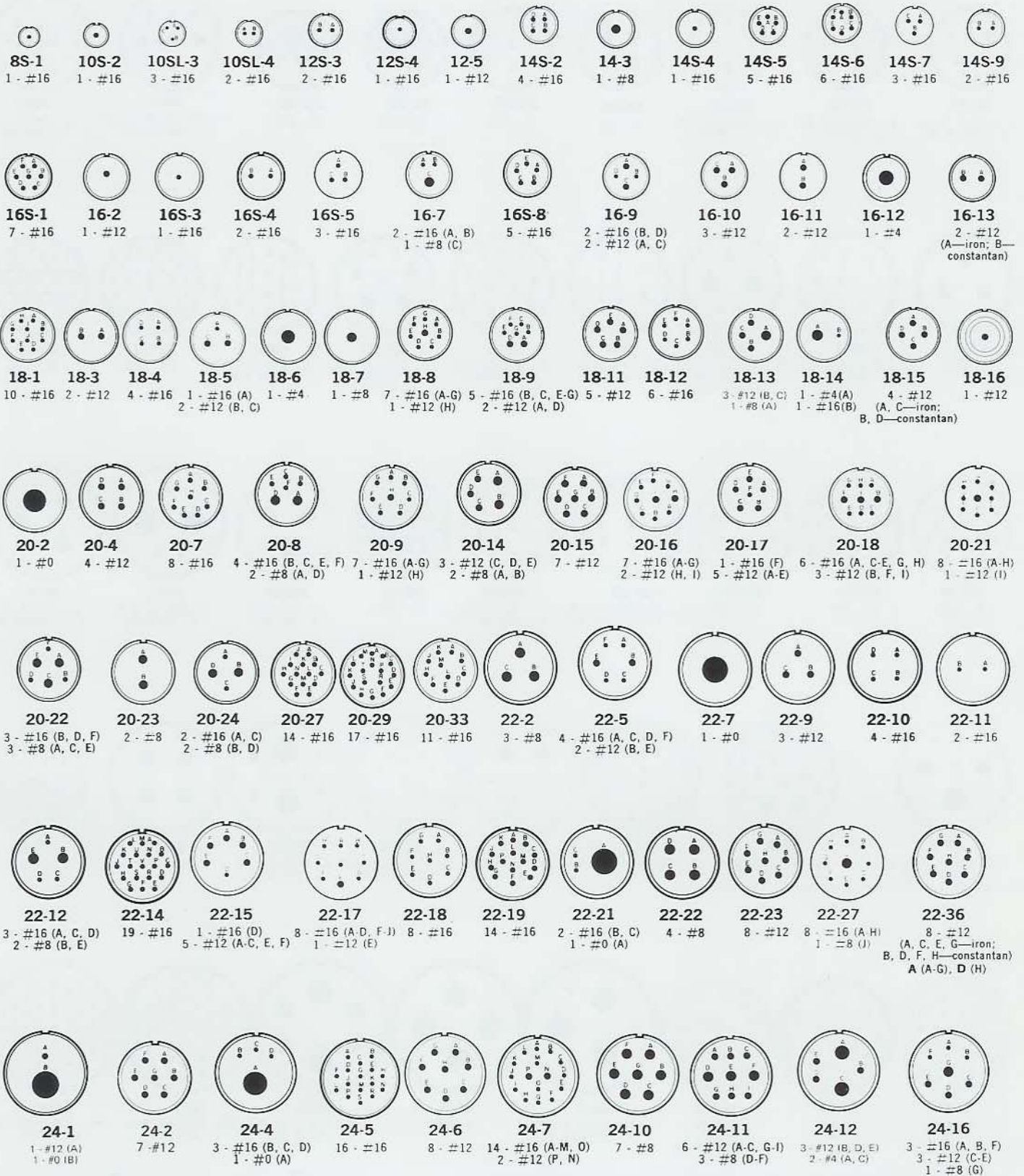
▲ ALSO AVAILABLE WITH ALTERNATE POSITIONS OF U 100° AND V 260°



MASTER KEY OR KEYWAY POSITION.  
ENGAGING FACE OF PIN INSERT  
(SOCKET INSERT OPPOSITE)

INSERT ARRANGEMENT  
DOES NOT ROTATE WITH SHELL

## ENGAGING FACE OF PIN INSERT SHOWN



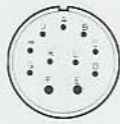
## MIL-C-5015

## HSC SERIES 2000

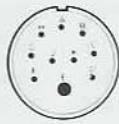
## ENGAGING FACE OF PIN INSERT SHOWN



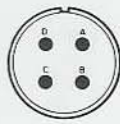
24-17

3 - #16 (C, D, E)  
2 - #12 (A, B)

24-20

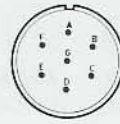
9 - #16 (A-D, G-L)  
2 - #12 (E, F)

24-21

9 - #16 (A-D, F-K)  
1 - #8 (E)

24-22

4 - #8



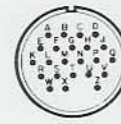
24-27

7 - #16



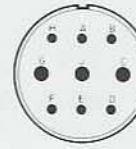
24-28

24 - #16

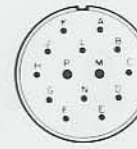


24-80+

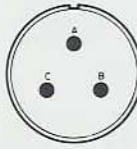
23 - #16



28-1

6 - #12 (A, B, D, F, H)  
3 - #8 (C, J, G)

28-2

12 - #16 (A, L, N)  
2 - #12 (M, P)

28-3

3 - #8



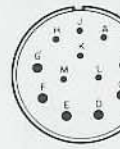
28-4

7 - #16 (A, B, E, G, P, S)  
2 - #12 (C, D)

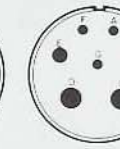
28-5

2 - #16 (C, D)  
1 - #12 (A)  
2 - #4 (B, E)

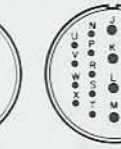
28-8

10 - #16 (A, K)  
2 - #12 (L, M)

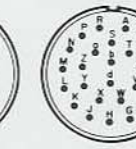
28-9

6 - #16 (A, H, M)  
6 - #12 (B, G)

28-10

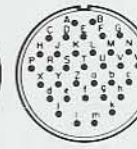
3 - #12 (A, F, G)  
2 - #8 (B, E)  
2 - #4 (C, D)

28-11

18 - #16 (A-I, N-X)  
4 - #12 (J-M)

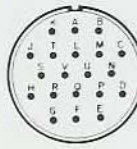
28-12

26 - #16



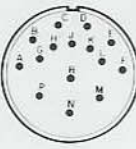
28-15

35 - #16



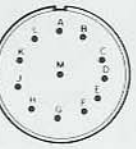
28-16

20 - #16



28-17

15 - #16

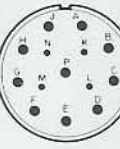


28-18

12 - #16



28-19

6 - #16 (A, C, H, L, M)  
4 - #12 (E, G, J, K)

28-20

4 - #16 (K, N)  
10 - #12 (A, J, P)

28-21

37 - #16



28-22

3 - #16 (D, F)  
3 - #4 (A, C)

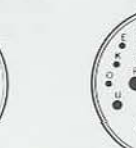
32-1

3 - #12 (A, C, D)  
2 - #0 (B, E)

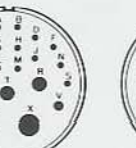
32-2

2 - #16 (A, C)  
3 - #4 (B, D, E)

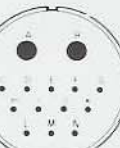
32-3

4 - #16 (A, C, G, J)  
2 - #12 (B, E)  
2 - #4 (D, F), 1 - #0 (H)

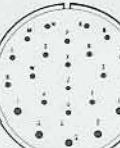
32-6

16 - #16 (A, S)  
2 - #12 (U, V)

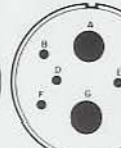
32-7

28 - #16 (A, N, W, Z, a-k)  
7 - #12 (O, V)

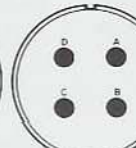
32-9

12 - #16 (C, N)  
2 - #4 (A, B)

32-13

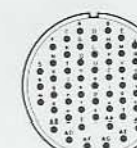
18 - #16 (A, D, K, Z)  
5 - #12 (E, J)

32-15

6 - #12 (B, F, H)  
2 - #0 (A, G)

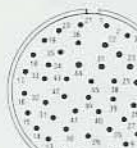
32-17

4 - #4



32-22

54 - #16

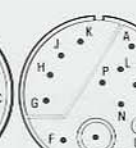


32-73

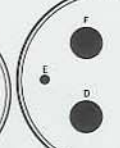
40 - #16



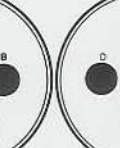
32-101

10 - #16  
2 COAX  
(SEE MS33695)

32-102

10 - #18  
1 COAX  
(SEE MS 33695)

36-3

3 - #12 (A, C, E)  
3 - #0 (B, D, F)

36-5

4 - #0



36-6

4 - #4 (B, C, E, F)  
2 - #0 (A, D)

36-7

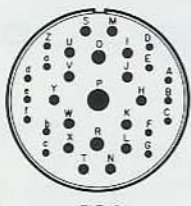
46 - #16 (A, Z, a-s)  
7 - #12 (t-z)

36-8

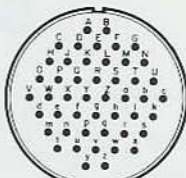
46 - #16 (A, X, Z, z)  
1 - #12 (Y)

# MIL-C-5015

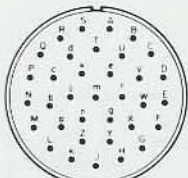
# HSC SERIES 2000



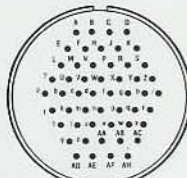
**36-9**  
14 - #16 (A-G, Z-f)  
14 - #12 (H-N, S-Y)  
2 - #8 (O, R), 1 - #4 (P)



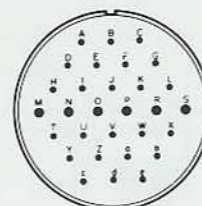
**36-10**  
48 - #16



**36-15**  
35 - #16



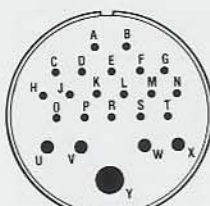
**36-52**  
52 - #16



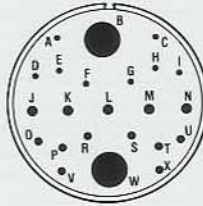
**40-1**  
24 - #16 (A, L, T-e)  
6 - #12 (M-S)



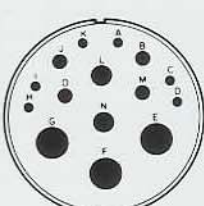
**40-2**  
23 - #16



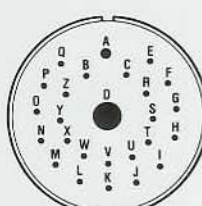
**40-3**  
18 - #16 (A-T)  
4 - #12 (U, V, W, X)  
1 - #4 (V)



**40-4**  
16 - #10 (A, C, I, O-V, X)  
2 - #12 (J-N)  
3 - #8 (K, L, M)  
2 - #4 (B-W)



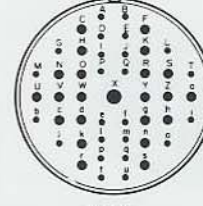
**40-5**  
6 - #12 (A, C, D, H, I, K)  
4 - #8 (B, J, M, O)  
2 - #4 (L, N), 3 - #0 (E-G)



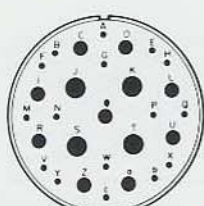
**40-6**  
24 - #16 (B, D, E-Z)  
1 - #12 (A)  
1 - #0 (D)



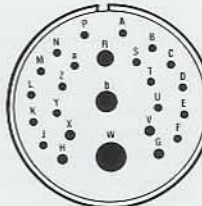
**40-7**  
2 - #12 (W, X)  
2 - #0 (U, V)  
18 - #16 (ALL OTHERS)



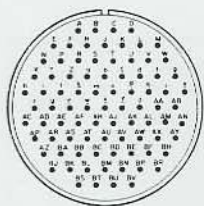
**40-9**  
24 - #16 (A, B, D, E, G, I, J, L, M, P, Q, T, b, e, f, i, j, l, m, o, p, q, t, u)  
22 - #12 (C, F, H, K, N, O, R, S, U-W, Y, Z)  
a, c, d, g, h, k, n, r, s), 1 - #8 (X)



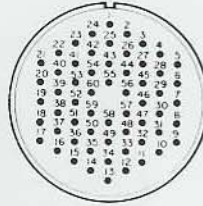
**40-10**  
16 - #16 (A, B, E-H, M, N, P, Q, V-Y, b, c)  
9 - #8 (C, D, I, L, O, R, U, Z, a)  
4 - #4 (J, K, S, T)



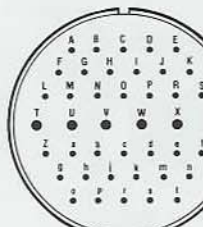
**40-11**  
18 - #16 (A-F, J-P, S-U, Y, Z, a)  
4 - #12 (G, H, V, X)  
1 - #8 (R), 1 - #4 (b), 1 - #0 (W)



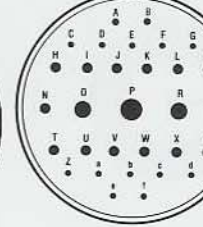
**40-56**  
85 - #16



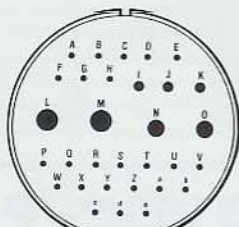
**40-62**  
60 - #16



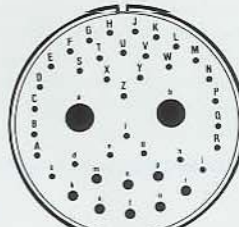
**44-1**  
36 - #16 (A-S, Z-t)  
6 - #12 (T-Y)



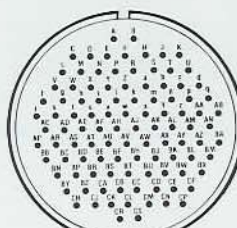
**44-2**  
14 - #16 (A-G, Z-f)  
14 - #12 (H-N, S-Y)  
2 - #8 (O, R), 1 - #4 (P)



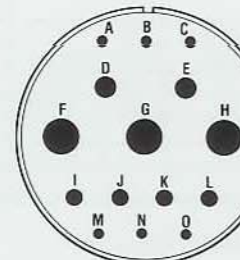
**44-3**  
24 - #16 (A-H, P-e)  
3 - #12 (I, J, K)  
2 - #8 (N, O), 2 - #4 (L, M)



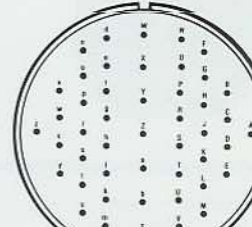
**44-4**  
31 - #16 (A-Z, c-i)  
8 - #12 (k-u)  
2 - #0 (a, b)



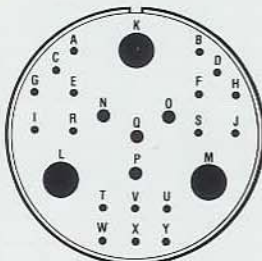
**44-52**  
104 - #16



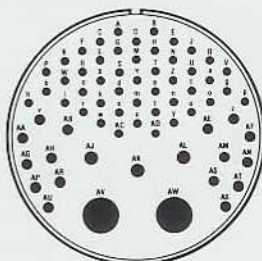
**48-1**  
6 - #12 (A-C, M-O)  
4 - #8 (H-L), 2 - #4 (D, E)  
3 - #0 (F-H)



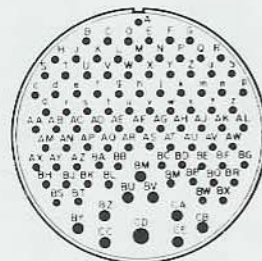
**48-2**  
46 - #16 (A-b, d-z)  
1 - #12 (c)



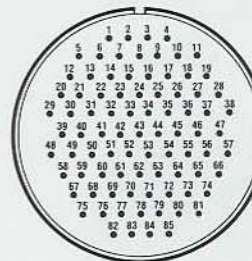
**48-3**  
18 - #16 (A-J, R-Y)  
1 - #12 (Q), 3 - #8 (N-P)  
3 - #0 (K-M)



**48-4**  
47 - #16 (A-u, w-y, AC, AD)  
18 - #12 (v, z, AA, AB, AE-AH, AM-AU, AX)  
3 - #8 (AJ-AL), 2 - #0 (AV, AW)

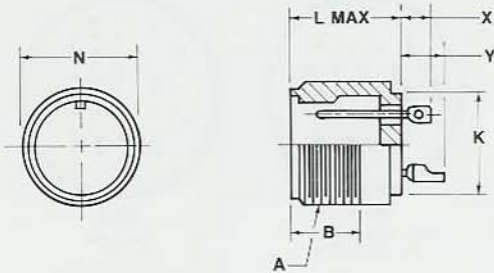


**48-5**  
90 - #16 (A-BL, BN-BT, BW, BV)  
1 - #8 (CD)  
9 - #12 (BM, BU, BV, BY-CC, CE)



**48-62**  
85 - #16

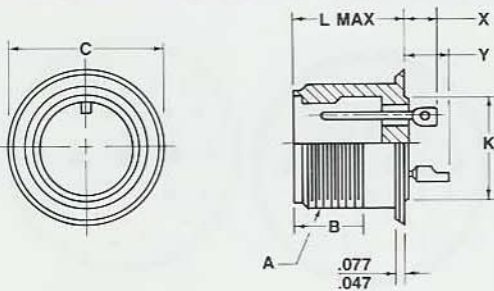
## S200\*-\*-\*P



CONTACT SIZE	X MAX	Y MAX
16	.219	.375
12	.281	.516
8	—	.719
4,0	—	.980

SHELL SIZE	Thread Class 2A	B Min. Thread	K ±.010	L MAX.		N +.000 -.062
				Size 20,16 12&8 Cont's	Size 4 & 0 Cont's	
8S	.500-28 UNEF	.375	.428	.730	—	.532
10S	.625-24 UNEF	↑	.490	↑	—	.656
10SL	.625-24 UNEF	↑	.490	↑	—	.656
12S	.750-20 UNEF	↑	.646	↑	—	.782
14S	.875-20 UNEF	↓	.709	↓	—	.906
16S	1.000-20 UNEF	.375	.834	.730	1.040	1.032
12	.750-20 UNEF	.625	.646	.915	—	.782
14	.875-20 UNEF	↑	.709	↑	—	.906
16	1.000-20 UNEF	↑	.834	↑	1.040	1.032
18	1.125-18 UNEF	↑	.959	↑	—	1.156
20	1.250-18 UNEF	↑	1.146	↑	—	1.282
22	1.375-18 UNEF	↑	1.240	↑	—	1.406
24	1.500-18 UNEF	↑	1.365	↑	—	1.532
28	1.750-18 UNS	↓	1.615	↓	—	1.782
32	2.000-18 UNS	.625	1.865	.915	1.040	2.032

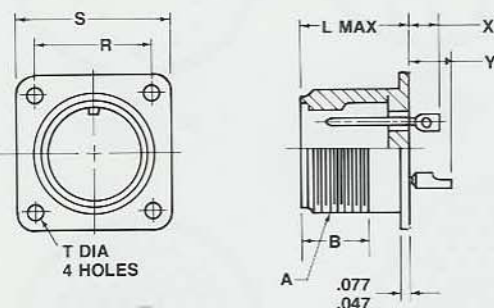
## S205\*-\*-\*P



CONTACT SIZE	X MAX	Y MAX
16	.219	.375
12	.281	.516
8	—	.719
4,0	—	.980

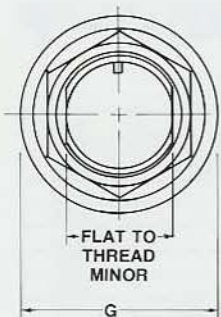
SHELL SIZE	Thread Class 2A	B Min. Thread	C ±.010	K ±.010	L MAX.	
					Size 20,16 12&8 Cont's	Size 4 & 0 Cont's
8S	.500-28 UNEF	.375	.750	.428	.730	—
10S	.625-24 UNEF	↑	.875	.490	↑	—
10SL	.625-24 UNEF	↑	.875	.490	↑	—
12S	.750-20 UNEF	↑	1.000	.646	↑	—
14S	.875-20 UNEF	↓	1.125	.709	↓	—
16S	1.000-20 UNEF	.375	1.250	.834	.730	1.040
12	.750-20 UNEF	.625	1.000	.646	.915	—
14	.875-20 UNEF	↑	1.125	.709	↑	—
16	1.000-20 UNEF	↑	1.250	.834	↑	1.040
18	1.125-18 UNEF	↑	1.375	.959	↑	—
20	1.250-18 UNEF	↑	1.500	1.146	↑	—
22	1.375-18 UNEF	↑	1.625	1.240	↑	—
24	1.500-18 UNEF	↑	1.750	1.365	↑	—
28	1.750-18 UNS	↓	2.000	1.615	↓	—
32	2.000-18 UNS	.625	2.250	1.865	.915	1.040

## S210\*-\*-\*P

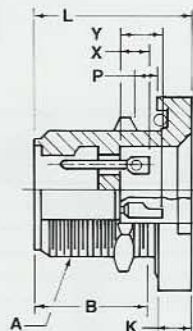


CONTACT SIZE	X MAX	Y MAX
16	.219	.375
12	.281	.516
8	—	.719
4,0	—	.980

SHELL SIZE	Thread Class 2A	B Min. Thread	L MAX.		R T.P. G-G	S ±.031	T ±.005
			Size 20,16 12&8 Cont's	Size 4 & 0 Cont's			
8S	.500-28 UNEF	.375	.730	—	.594	.875	.120
10S	.625-24 UNEF	↑	↑	—	.719	1.000	↑
10SL	.625-24 UNEF	↑	↑	—	.719	1.000	↑
12S	.750-20 UNEF	↑	↑	—	.812	1.094	↑
14S	.875-20 UNEF	↓	↓	—	.906	1.188	↑
16S	1.000-20 UNEF	.375	.730	1.040	.969	1.281	↑
12	.750-20 UNEF	.625	.915	—	.812	1.094	↑
14	.875-20 UNEF	↑	↑	—	.906	1.188	↑
16	1.000-20 UNEF	↑	↑	1.040	.969	1.281	↑
18	1.125-18 UNEF	↑	↑	↑	1.062	1.375	↑
20	1.250-18 UNEF	↑	↑	↑	1.156	1.500	↓
22	1.375-18 UNEF	↑	↑	↑	1.250	1.625	.120
24	1.500-18 UNEF	↑	↑	↑	1.375	1.750	.147
28	1.750-18 UNS	↓	↓	↓	1.562	2.000	.147
32	2.000-18 UNS	.625	.915	1.040	1.750	2.250	.173

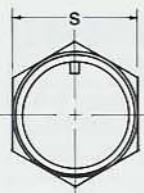
S220\***-\*\***-\*PFLAT TO  
THREAD  
MINOR

G

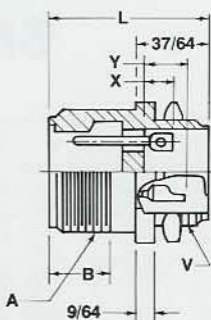


CONTACT SIZE	X MAX	Y MAX
16	.219	.375
12	.281	.516
8	—	.719
4,0	—	.980

SHELL SIZE	A Thread Class 2A	B Min. Perf. Thread	G $\pm .010$	K $\pm .015$	L $+0.000$ $-0.015$	P Max. Panel Thickness
8S	.500-28 UNEF	.687	1.062	.250	1.062	.421
10S	.625-24 UNEF	.687	1.187	↑	↑	.281
10SL	.625-24 UNEF	.687	1.187	.250	↑	.281
12S	.750-20 UNEF	.656	1.312	.281	↑	.250
14S	.875-20 UNEF	.656	1.437	↑	↓	.250
16S	1.000-20 UNEF	.656	1.562	↑	1.062	.234
12	.750-20 UNEF	1.093	1.312	↑	1.500	.437
14	.875-20 UNEF	↑	1.437	↑	↑	.437
16	1.000-20 UNEF	↑	1.562	↑	↑	.421
18	1.125-18 UNEF	↑	1.687	↑	↑	↑
20	1.250-18 UNEF	↑	1.812	↑	↑	↑
22	1.375-18 UNEF	↑	1.937	↑	↑	↑
24	1.500-18 UNEF	↑	2.062	↑	↑	↑
28	1.750-18 UNS	↓	2.312	↓	↓	↓
32	2.000-18 UNS	1.093	2.562	.281	1.500	.421

S230\***-\*\***-\*P

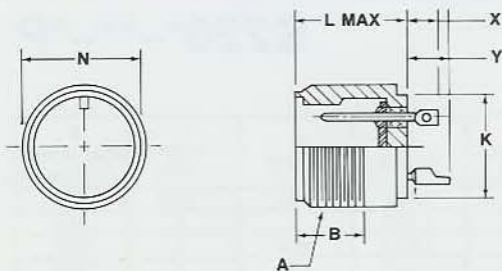
S



CONTACT SIZE	X MAX	Y MAX
16	.219	.375
12	.281	.516
8	—	.719
4,0	—	.980

SHELL SIZE	A THREAD CLASS 2A	B MIN. THREAD	L $\pm .010$	S $\pm .015$	V THREAD CLASS 2A
8S	.500-28 UNEF	.375	1.216	.500	.375-32 UNEF
10S	.625-24 UNEF	↑	↑	.625	.500-28 UNEF
10SL	.625-24 UNEF	↑	↑	.625	.500-28 UNEF
12S	.750-20 UNEF	↓	↓	.750	.625-24 UNEF
14S	.875-20 UNEF	↓	↓	.875	.750-20 UNEF
16S	1.000-20 UNEF	.375	1.216	1.000	.875-20 UNEF
12	.750-20 UNEF	.625	1.406	.750	.625-24 UNEF
14	.875-20 UNEF	↑	↑	.875	.750-20 UNEF
16	1.000-20 UNEF	↑	↑	1.000	.875-20 UNEF
18	1.125-18 UNEF	↑	↑	1.125	1.000-20 UNEF
20	1.250-18 UNEF	↑	↑	1.250	1.125-18 UNEF
22	1.375-18 UNEF	↑	↑	1.375	1.250-18 UNEF
24	1.500-18 UNEF	↑	↑	1.500	1.375-18 UNEF
28	1.750-18 UNS	↓	↓	1.750	1.625-18 UNEF
32	2.000-18 UNS	.625	1.406	2.000	1.875-16 UNS

## SR200\*-\*-\*P

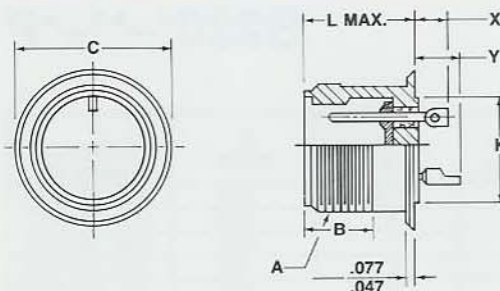


CONTACT SIZE	X MAX	Y MAX
16	.219	.375
12	.281	.516
8	—	.719
4,0	—	.980

SHELL SIZE	Thread Class 2A	B Min. Thread	K ±.010	L MAX.		N +.000 -.062
				Size 20,16 12&8 Cont's	Size 4 & 0 Cont's	
8S	.500-28 UNEF	.375	.428	.730	—	.532
10S	.625-24 UNEF	↑	.490	↑	—	.656
10SL	.625-24 UNEF	↑	.490	↑	—	.656
12S	.750-20 UNEF	↑	.646	↑	—	.782
14S	.875-20 UNEF	↓	.709	↓	—	.906
16S	1.000-20 UNEF	.375	.834	.730	1.040	1.032
12	.750-20 UNEF	.625	.646	.915	—	.782
14	.875-20 UNEF	↑	.709	↑	—	.906
16	1.000-20 UNEF	↑	.834	↑	1.040	1.032
18	1.125-18 UNEF	↑	.959	↑	↑	1.156
20	1.250-18 UNEF	↑	1.146	↑	↑	1.282
22	1.375-18 UNEF	↑	1.240	↑	↑	1.406
24	1.500-18 UNEF	↑	1.365	↑	↑	1.532
28	1.750-18 UNS	↓	1.615	↓	↓	1.782
32	2.000-18 UNS	.625	1.865	.915	1.040	2.032

## SR205\*\*-\*-\*P

(MS3143)

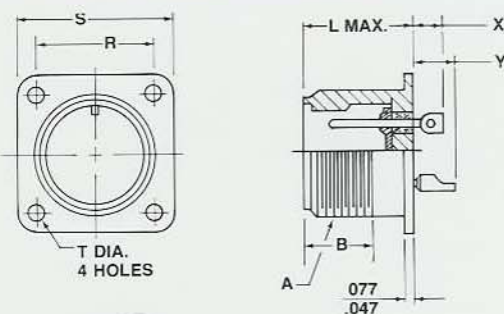


CONTACT SIZE	X MAX	Y MAX
16	.219	.375
12	.281	.516
8	—	.719
4,0	—	.980

SHELL SIZE	Thread Class 2A	B Min. Thread	C ±.010	K ±.010	L MAX.	
					Size 20,16 12&8 Cont's	Size 4 & 0 Cont's
8S	.500-28 UNEF	.375	.750	.428	.730	—
10S	.625-24 UNEF	↑	.875	.490	↑	—
10SL	.625-24 UNEF	↑	.875	.490	↑	—
12S	.750-20 UNEF	↑	1.000	.646	↑	—
14S	.875-20 UNEF	↓	1.125	.709	↓	—
16S	1.000-20 UNEF	.375	1.250	.834	.730	1.040
12	.750-20 UNEF	.625	1.000	.646	.915	—
14	.875-20 UNEF	↑	1.125	.709	↑	—
16	1.000-20 UNEF	↑	1.250	.834	↑	1.040
18	1.125-18 UNEF	↑	1.375	.959	↑	—
20	1.250-18 UNEF	↑	1.500	1.146	↑	—
22	1.375-18 UNEF	↑	1.625	1.240	↑	—
24	1.500-18 UNEF	↑	1.750	1.365	↑	—
28	1.750-18 UNS	↓	2.000	1.615	↓	—
32	2.000-18 UNS	.625	2.250	1.865	.915	1.040

## SR210\*-\*-\*P

(MS3142)



CONTACT SIZE	X MAX	Y MAX
16	.219	.375
12	.281	.516
8	—	.719
4,0	—	.980

SHELL SIZE	Thread Class 2A	B Min. Thread	L MAX.		R T.P. C-C	S ±.031	T ±.005
			Size 20,16 12&8 Cont's	Size 4 & 0 Cont's			
8S	.500-28 UNEF	.375	.730	—	.594	.875	.120
10S	.625-24 UNEF	↑	↑	—	.719	1.000	↑
10SL	.625-24 UNEF	↑	↑	—	.719	1.000	↑
12S	.750-20 UNEF	↑	↑	—	.812	1.094	—
14S	.875-20 UNEF	↓	↓	—	.906	1.188	—
16S	1.000-20 UNEF	.375	.730	1.040	.969	1.281	—
12	.750-20 UNEF	.625	.915	—	.812	1.094	—
14	.875-20 UNEF	↑	↑	—	.906	1.188	—
16	1.000-20 UNEF	↑	↑	1.040	.969	1.281	—
18	1.125-18 UNEF	↑	↑	↑	1.062	1.375	—
20	1.250-18 UNEF	↑	↑	↑	1.156	1.500	↓
22	1.375-18 UNEF	↑	↑	↑	1.250	1.625	.120
24	1.500-18 UNEF	↑	↑	↑	1.375	1.750	.147
28	1.750-18 UNS	↓	↓	↓	1.562	2.000	.147
32	2.000-18 UNS	.625	.915	1.040	1.750	2.250	.173

HERMETIC SEAL CORPORATION

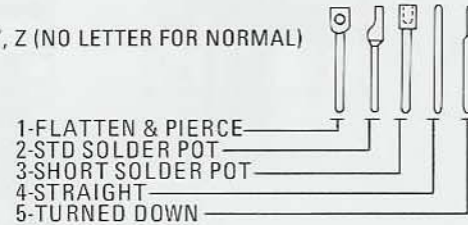
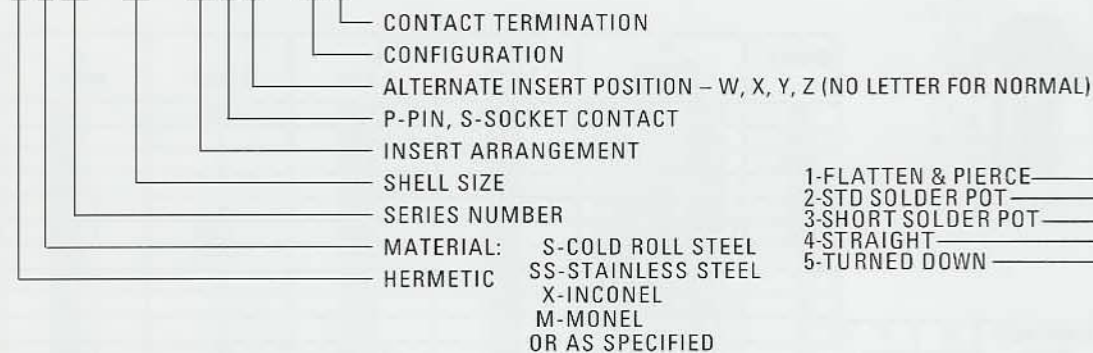
4232 TEMPLE CITY BOULEVARD, ROSEMEAD, CALIFORNIA 91770

TOLERANCE EXCEPT AS SPECIFIED  
DECIMALS ±.005 FRACTIONS ± 1/32



## NUMBERING SYSTEM

H S 06 - 20 - 27 PW - 00 1



ALL CONNECTOR SIZES SHOWN ARE COMPLETELY DESIGNED.  
MOST STANDARD INSERT ARRANGEMENTS AND  
INTERFACIAL SEALS ARE TOOLED.  
PLEASE CONSULT FACTORY FOR FURTHER DETAILS.



Hermetic Seal Corporation SERIES HS06 connectors have the same uses and meet the same rigid performance requirements as Series 2000.

HS06 can be supplied with THERMOCOUPLE CONTACTS in iron & constantan or alumel & chromel.

HERMETICITY of  $1 \times 10^8$  and HIGH PRESSURE connectors are also available to meet the special requirements.

Series HS06 mates with Series 2000.

See Section 2 for insert arrangements.

## GENERAL SPECIFICATIONS

**DIELECTRIC WITHSTANDING VOLTAGE**  
CONNECTORS SHOW NO EVIDENCE OF BREAKDOWN OR FLASHOVER WHEN TESTED AT VOLTAGES SHOWN IN ACCORDANCE WITH MIL-STD-202, METHOD 301.

Service Rating	Test Voltage (RMS)	
	Sea Level	70,000 Ft.
INST.	1000	260
A	2000	360
D	2800	400
E	3500	440
B	4500	480
C	7000	560

**THERMAL SHOCK**  
NO EVIDENCE OF DAMAGE DETRIMENTAL TO OPERATION OF CONNECTOR AT  $-55^{\circ}\text{C}$  ( $-67^{\circ}\text{F}$ ) TO  $+175^{\circ}\text{C}$  ( $+347^{\circ}\text{F}$ ).

**INSULATION RESISTANCE**  
GREATER THAN 5,000 MEGOHMS/500 VDC,  $25^{\circ}\text{C}$  PER MIL-STD-202, METHOD 302.

**INSERT RETENTION**  
INSERT WILL WITHSTAND 200 P.S.I. WITHOUT DAMAGE.

**AIR LEAKAGE (HERMETICITY)**  
LEAKAGE RATE LESS THAN 0.1 MICRON CUBIC FOOT PER HOUR ( $1 \times 10^{-6}$  cc/sec) AT 15 P.S.I.

**SHOCK**  
MATED CONNECTORS SHOW NO EVIDENCE OF DAMAGE AFTER SHOCK TEST PER MIL-C-5015.

**CORROSION**  
CONNECTORS WILL MEET SALT SPRAY TEST PER MIL-STD-202, METHOD 101.

HERMETIC SEAL CORPORATION

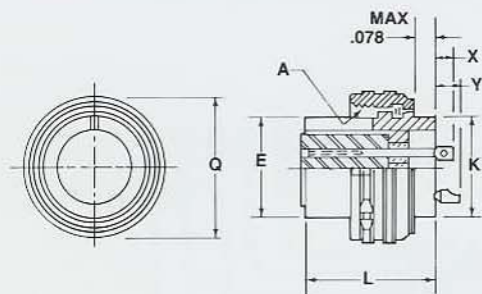
4232 TEMPLE CITY BOULEVARD, ROSEMEAD, CALIFORNIA 91770

MIL-C-5015

HSC SERIES HS06

HS06-1

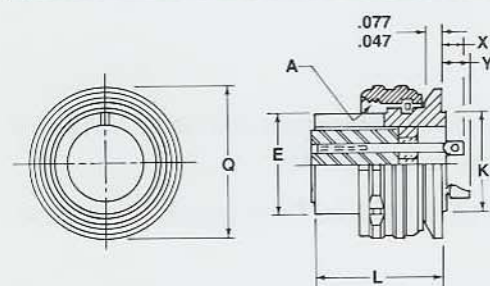
HS06-\*\*-\*\*S-00\*



CONTACT SIZE	X MAX	Y MAX
16	.219	.375
12	.281	.516
8	—	.719
4,0	—	.980

SHELL	A Thread Class 2B	E +.000 -.015	K ±.010	L ±.030	Q MAX.
8S	.500-28UNEF	.365	.428	.875	.844
10S	.625-24UNEF	.440	.490	↑	.969
10SL	.625-24UNEF	.446	.490	↓	.969
12S	.750-20UNEF	.555	.646	↓	1.062
14S	.875-20UNEF	.675	.709	↓	1.172
16S	1.000-20UNEF	.805	.834	.875	1.266
12	.750-20UNEF	.555	.646	1.062	1.062
14	.875-20UNEF	.675	.709	↑	1.172
16	1.000-20UNEF	.805	.834	↑	1.266
18	1.125-18UNEF	.930	.959	↓	1.359
20	1.250-18UNEF	1.050	1.146	↓	1.484
22	1.375-18UNEF	1.175	1.240	↓	1.609
24	1.500-18UNEF	1.300	1.365	↓	1.734
28	1.750-18UNS	1.520	1.615	↓	1.984
32	2.000-18UNS	1.770	1.865	1.062	2.234

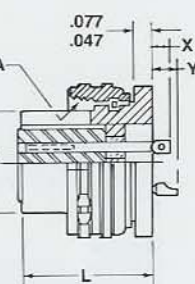
HS06-\*\*-\*\*S-05\*



CONTACT SIZE	X MAX	Y MAX
16	.219	.375
12	.281	.516
8	—	.719
4,0	—	.980

SHELL SIZE	Thread Class 2B	E +.000 -.015	K ±.010	L ±.030	Q ±.010
8S	.500-28 UNEF	.365	.428	.875	.750
10S	.625-24 UNEF	.440	.490	↑	.875
10SL	.625-24 UNEF	.446	.490	↓	.875
12S	.750-20 UNEF	.555	.646	↓	1.000
14S	.875-20 UNEF	.675	.709	↓	1.125
16S	1.000-20 UNEF	.805	.834	.875	1.250
12	.750-20 UNEF	.555	.646	1.062	1.000
14	.875-20 UNEF	.675	.709	↓	1.125
16	1.000-20 UNEF	.805	.834	↓	1.250
18	1.125-18 UNEF	.930	.959	↓	1.375
20	1.250-18 UNEF	1.050	1.146	↓	1.500
22	1.375-18 UNEF	1.175	1.240	↓	1.625
24	1.500-18 UNEF	1.300	1.365	↓	1.750
28	1.750-18 UNS	1.520	1.615	↓	2.000
32	2.000-18 UNS	1.770	1.865	1.062	2.250

HS06-\*\*-\*\*S-10\*



CONTACT SIZE	X MAX	Y MAX
16	.219	.375
12	.281	.516
8	—	.719
4,0	—	.980

SHELL SIZE	A Thread Class 2B	E +.000 -.015	L ±.030	R T.P. C-C	S ±.031	T ±.005
8S	.500-28 UNEF	.365	.875	.594	.875	.120
10S	.625-24 UNEF	.440	↑	.719	1.000	↑
10SL	.625-24 UNEF	.446	↓	.719	1.000	↓
12S	.750-20 UNEF	.555	↓	.812	1.094	↓
14S	.875-20 UNEF	.675	↓	.906	1.188	↓
16S	1.000-20 UNEF	.805	.875	.969	1.281	↓
12	.750-20 UNEF	.555	1.062	.812	1.094	↓
14	.875-20 UNEF	.675	↑	.906	1.188	↓
16	1.000-20 UNEF	.805	↑	.969	1.281	↓
18	1.125-18 UNEF	.930	↑	1.062	1.375	↓
20	1.250-18 UNEF	1.050	↑	1.156	1.500	↓
22	1.375-18 UNEF	1.175	↑	1.250	1.625	.120
24	1.500-18 UNEF	1.300	↑	1.375	1.750	.147
28	1.750-18 UNS	1.520	↑	1.562	2.000	.147
32	2.000-18 UNS	1.770	1.062	1.750	2.250	.173

HERMETIC SEAL CORPORATION

4232 TEMPLE CITY BOULEVARD, ROSEMEAD, CALIFORNIA 91770

TOLERANCE EXCEPT AS SPECIFIED  
DECIMALS ±.005 FRACTIONS ± 1/32