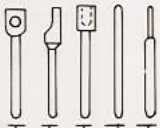
MIL-C-26482 HSC SERIES 7000

NUMBERING SYSTEM

S 7 001 – 16 – 3 P W – * – *

- STD. PLATING FUSED TIN; FOR STNL'S STL, SHELL-PASSIVATE, CONTACTS-GOLD
- SPECIAL MODIFICATIONS
- ALTERNATE INSERT POSITION (NO LETTER FOR NORMAL)
- CONTACT DESIGNATOR P-PIN, S-SOCKET
- INSERT ARRANGEMENT
- SHELL SIZE
- CONTACT TERMINATION:
  - 1-FLATTEN & PIERCE
  - 2-STD SOLDER POT
  - 3-SHORT SOLDER POT
  - 4-STRAIGHT
  - 5-TURNED DOWN
- SHELL STYLE
- SERIES NO.
- MATERIAL:
  - S-COLD ROLL STEEL
  - SS-STAINLESS STEEL
  - X-INCONEL
  - M-MONEL
  - OR AS SPECIFIED



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



The S7000 series of hermetically sealed connectors are manufactured and tested in strict conformance with MIL-C-26482 with superior results. These circular connectors encompass many requirements in the aerospace, industrial and commercial field. Due to their versatility of mounting configurations, i.e., box mounting, solder mounting, and jam nut mounting the 7000 series is utilized throughout the industry.

Aside from the standard 7000 series Hermetic Seal Corporation offers these connectors for high temperature (1000° F) high pressure (50,000 PSI) and stainless steel weldable applications on a special order basis.

Mating plugs with hermetically sealed sockets are also available upon special request.

Contact configurations can vary from solder pots to eyelets and thermocouple contacts are also available.

GENERAL SPECIFICATIONS

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

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

INSULATION RESISTANCE
GREATER THAN 5,000 MEGOHMS/500 VDC 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.

Altitude Feet	Minimum Test Voltages AC (RMS)	
	Service Rating I	Service Rating II
Sea Level	1500	2300
50,000	500	750
70,000	375	500
110,000	200	200

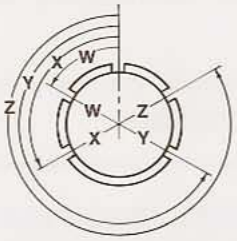
THERMAL SHOCK
NO EVIDENCE OF DAMAGE DETRIMENTAL TO OPERATION OF CONNECTOR AT -55°C (-67°F) TO +125°C (+257°F), PER MIL-STD-202, METHOD 107.

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	8-2	55	122	—	—
3	8-3	60	210	—	—
	8-33	90	—	—	—
	12-3	—	—	180	—
4	8-4	45	—	—	—
	14-4	45	—	—	—
5	14-5	40	92	184	273
6	10-6	90	—	—	—
	10-98	90	180	240	270
7	22-96	19	41	—	—
8	12-8	90	112	203	292
	16-8	54	152	180	331
	16-95	25	90	153	—
	18-88	12	45	168	202
10	12-10	60	155	270	295
11	18-11	62	119	241	340
12	14-12	43	90	—	—
13	18-85	45	90	180	240
14	16-14	25	78	180	240
15	14-15	17	110	155	234
	20-90	18	60	240	270
16	20-16	238	318	333	347

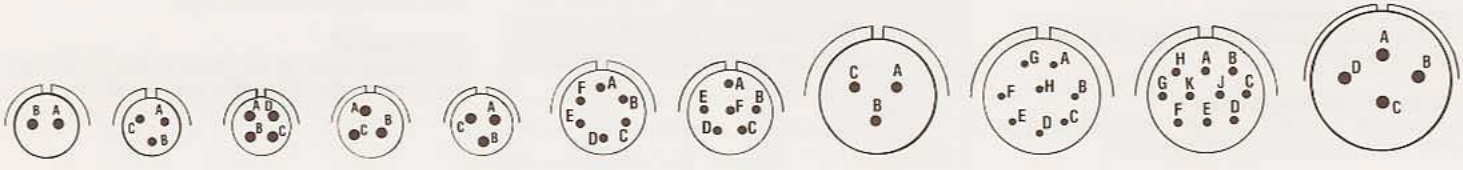
No. of Contacts	Contact Arrangement	Degrees W	X	Y	Z
19	14-19	30	165	315	—
	22-19	15	90	225	308
	24-19	30	165	315	—
21	22-21	16	135	175	349
23	16-23	158	270	—	—
	16-99	66	156	223	340
24	20-24	70	145	215	290
26	16-26	60	—	275	338
27	20-27	72	144	216	288
	24-27	45	110	140	225
30	18-30	180	193	235	250
31	24-31	90	225	255	—
32	18-32	85	138	222	265
	22-18	72	145	215	288
	22-32	72	145	215	288
	22-95	26	180	266	—
34	22-34	62	142	218	298
39	20-39	63	144	252	333
41	20-41	45	126	225	—
	22-41	39	135	264	—
55	22-55	30	142	226	314
61	24-61	90	180	270	324



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

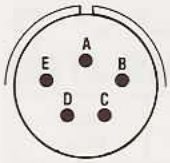
INSERT ARRANGEMENT
DOES NOT ROTATE WITH SHELL

ENGAGING FACE OF PIN INSERT SHOWN

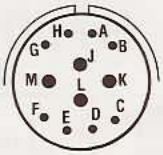


8-2 2 - SIZE 20 | **8-3** 3 - SIZE 20 | **8-4** 4 - SIZE 20 | **8-33** 3 - SIZE 20 | **8-98** 3 - SIZE 20 | **10-6** 6 - SIZE 20 | **10-98** 6 - SIZE 20 | **12-3** 3 - SIZE 16 | **12-8** 8 - SIZE 20 | **12-10** 10 - SIZE 20 | **14-4** 4 - SIZE 12

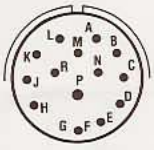
MIL-C-26482 HSC SERIES 7000



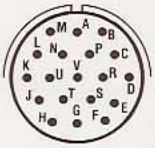
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5 - SIZE 16



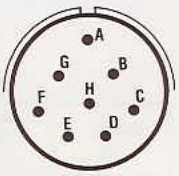
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8 - SIZE 20
4 - SIZE 16



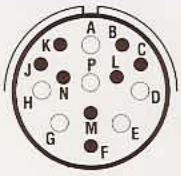
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14 - SIZE 20
1 - SIZE 16



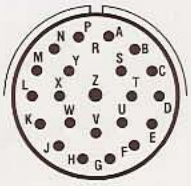
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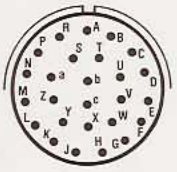
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8 - SIZE 16



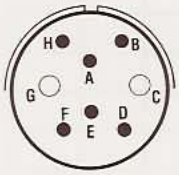
16-14
8 - SIZE 20
6 - SIZE 12



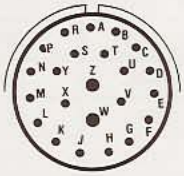
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22 - SIZE 20
1 - SIZE 16



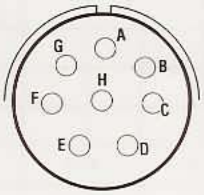
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26 - SIZE 20



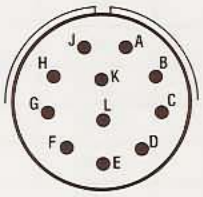
16-95
6 - SIZE 20
2 - SIZE 8



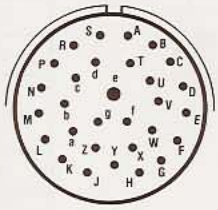
16-99
21 - SIZE 20
2 - SIZE 16



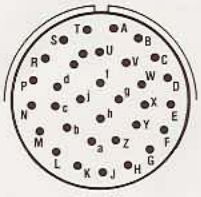
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8 - SIZE 12



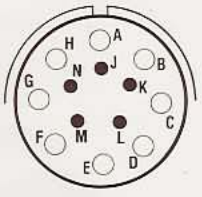
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11 - SIZE 16



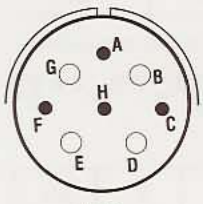
18-30
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1 - SIZE 16



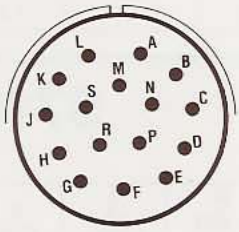
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32 - SIZE 20



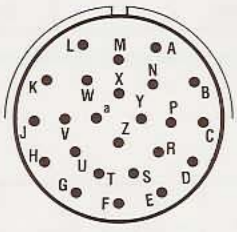
18-85
5 - SIZE 20
8 - SIZE 12



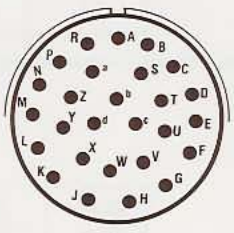
18-88
4 - SIZE 20
4 - SIZE 8



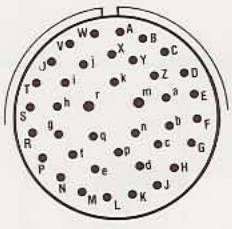
20-16
16 - SIZE 16



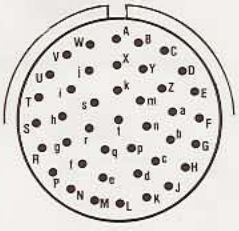
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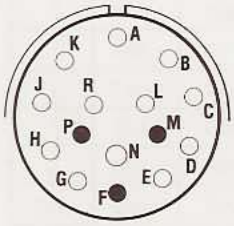
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27 - SIZE 20



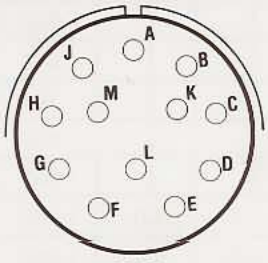
20-39
37 - SIZE 20
2 - SIZE 16



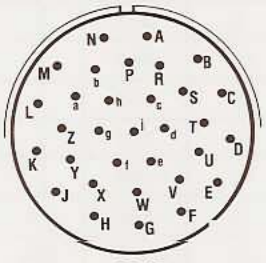
20-41
41 - SIZE 20



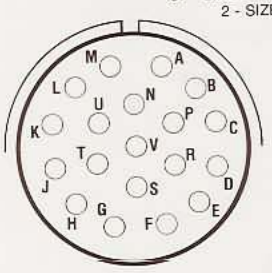
20-90
3 - SIZE 20
12 - SIZE 12



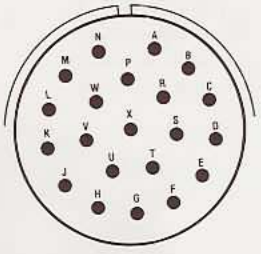
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12 - SIZE 12



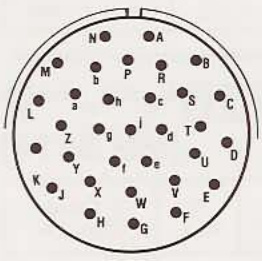
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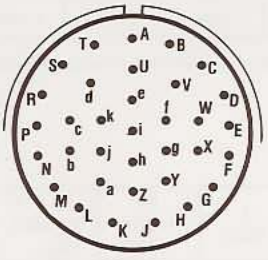
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19 - SIZE 12



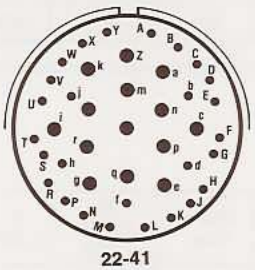
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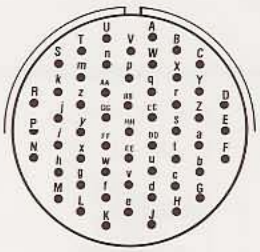
22-32
32 - SIZE 20



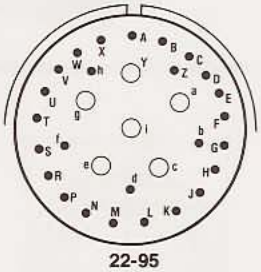
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34 - SIZE 20



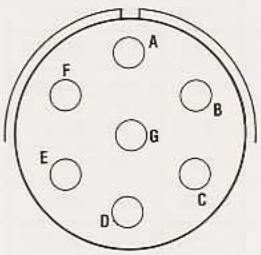
22-41
27 - SIZE 20
14 - SIZE 16



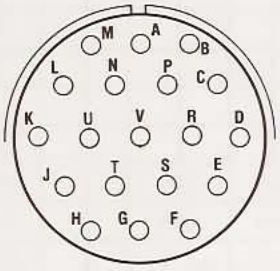
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55 - SIZE 20



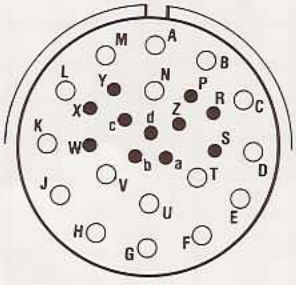
22-95
26 - SIZE 20
6 - SIZE 12



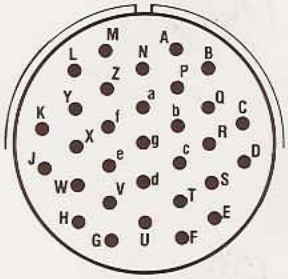
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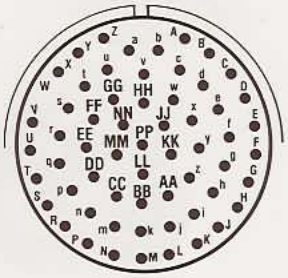
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19 - SIZE 12



24-27
11 - SIZE 20
16 - SIZE 12



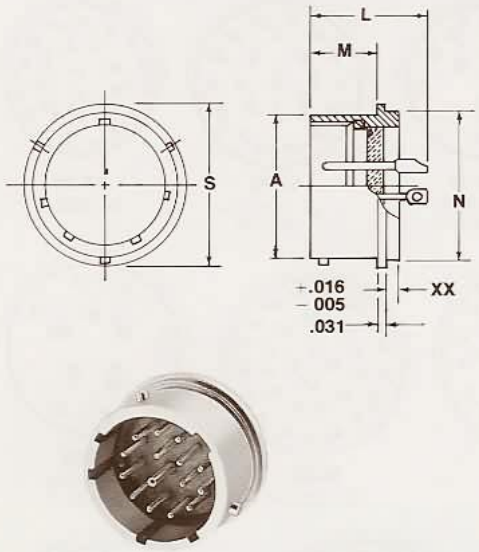
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31 - SIZE 16



24-61
61 - SIZE 20

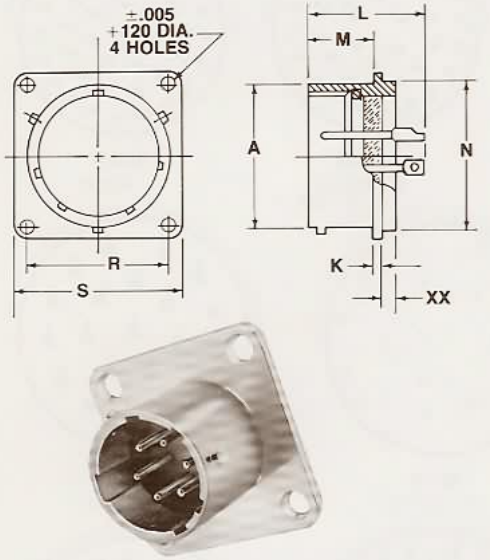
HERMETIC SEAL CORPORATION
4232 TEMPLE CITY BOULEVARD, ROSEMEAD, CALIFORNIA 91770

S700*-**-**P (MS 3113)



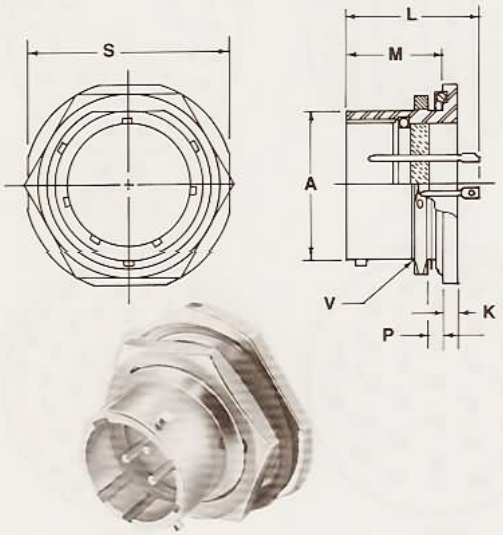
Shell Size	A +.001 -.005	L Max.	M +.031 -.000	N +.001 -.005	S ±.016	XX Max.
6	.350	.828	.411	.438	.500	.156
8	.473	↑	↑	.562	.625	↑
10	.590			.672	.750	
12	.750			.781	.844	
14	.875			.906	.969	
16	1.000	↓	↓	1.031	1.094	
18	1.125	.828	.411	1.156	1.218	
20	1.250	.891	.473	1.250	1.312	.156
22	1.375	.921	.473	1.375	1.438	.188
24	1.500	.921	.506	1.500	1.563	.188

S710*-**-**P

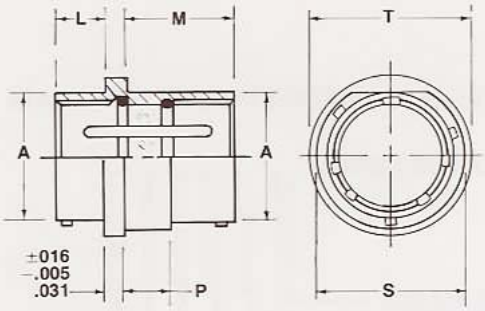


Shell Size	A +.001 -.005	K ±.016	L Max.	M +.031 -.000	N +.001 -.005	R (TP)	S Max.	XX Max.
6	.350	.062	.978	.431	.438	.469	.704	.312
8	.473	↑	↑	↑	.562	.594	.828	↑
10	.590				.672	.719	.954	
12	.750				.781	.812	1.047	
14	.875				.906	.906	1.141	
16	1.000	↓	↓	↓	1.031	.969	1.234	↓
18	1.125	.062	.978	.431	1.156	1.062	1.328	.312
20	1.250	.094	1.196	.556	1.250	1.156	1.453	.406
22	1.375	.094	1.196	.556	1.375	1.250	1.578	.406
24	1.500	.094	1.196	.556	1.500	1.375	1.703	.406

S720*-**-**P (MS 3114)

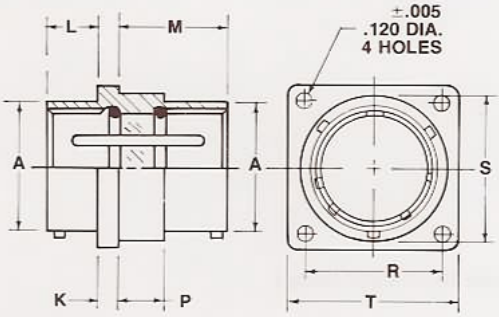


Shell Size	A +.001 -.005	K ±.020	L Max.	M +.031 -.000	P PANEL THK. Min.	P PANEL THK. Max.	S Max.	V Thread Class 2A
6	.350	.117	.828	.691	.062	.125	.829	.437-28UNEF
8	.473	↑	↑	↑	↑	↑	.954	.562-24NEF
10	.590						1.078	.687-24NEF
12	.750						1.266	.875-20UNEF
14	.875						1.391	1.000-20UNEF
16	1.000		↓	↓		↓	1.516	1.125-18NEF
18	1.125	↓	.828	.691		.125	1.641	1.250-18NEF
20	1.250	.148	.891	.879		.250	1.828	1.375-18NEF
22	1.375	.148	.922	.879	↓	.250	1.954	1.500-18NEF
24	1.500	.148	.922	.912	.062	.250	2.078	1.625-18NEF



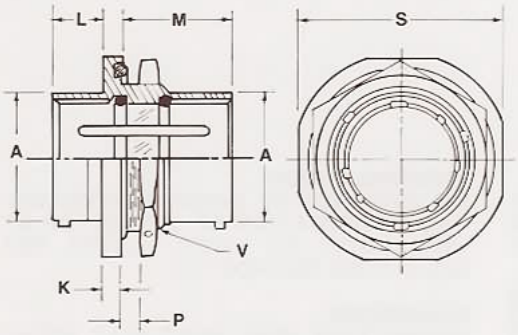
S7604-**-**P
DOUBLE ENDED FEED-THRU

Shell Size	A +.001 -.005	L +.031 -.000	M +.031 -.000	P Max.	S +.001 -.005	T ±.016
6	.350	.411	.536	.125	.437	.500
8	.473	.411	.536	.125	.562	.625
10	.590	.411	.536	.125	.687	.750
12	.750	.411	.536	.125	.875	.844
14	.875	.411	.536	.125	1.000	.969
16	1.000	.411	.536	.125	1.125	1.094
18	1.125	.411	.536	.125	1.250	1.218
20	1.250	.473	.723	.250	1.375	1.312
22	1.375	.473	.723	.250	1.500	1.438
24	1.500	.506	.756	.250	1.625	1.563



S7704-**-**P
DOUBLE ENDED FEED-THRU

Shell Size	A +.001 -.005	K ±.016	L +.031 -.000	M +.031 -.000	P Max.	R TP	S +.001 -.005	T Max.
6	.350	.062	.411	.536	.125	.469	.437	.704
8	.473	.062	.411	.536	.125	.594	.562	.828
10	.590	.062	.411	.536	.125	.719	.687	.954
12	.750	.062	.411	.536	.125	.812	.875	1.047
14	.875	.062	.411	.536	.125	.906	1.000	1.141
16	1.000	.062	.411	.536	.125	.969	1.125	1.234
18	1.125	.062	.411	.536	.125	1.062	1.250	1.328
20	1.250	.094	.473	.723	.250	1.156	1.375	1.453
22	1.375	.094	.473	.723	.250	1.250	1.500	1.578
24	1.500	.094	.506	.756	.250	1.375	1.625	1.703



S7804-**-**P
DOUBLE ENDED FEED-THRU

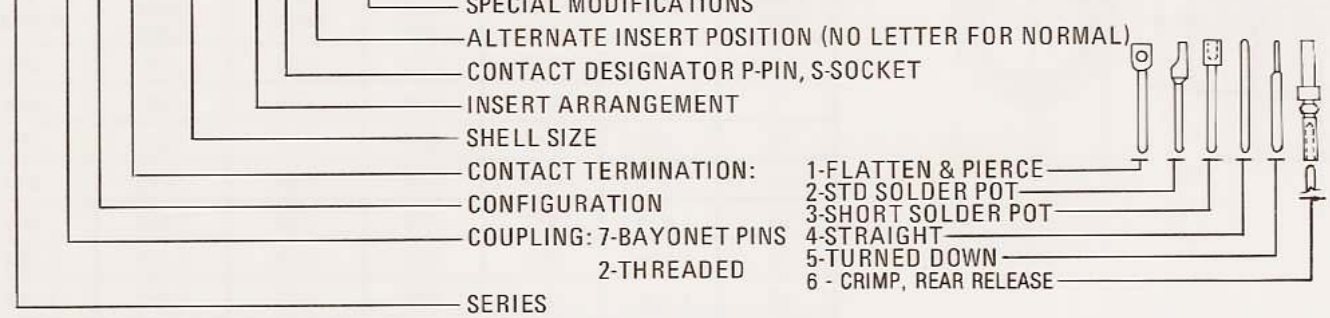
Shell Size	A +.001 -.005	K ±.020	L +.031 -.000	M +.031 -.000	P PANEL THK. Min.	P PANEL THK. Max.	S Max.	V Thread Class 2A
6	.350	.094	.411	.691	.062	.125	.828	.437-28UNEF
8	.473	↑	↑	↑	↑	↑	.954	.562-24NEF
10	.590						1.078	.687-24NEF
12	.750						1.266	.875-20UNEF
14	.875						1.391	1.000-20UNEF
16	1.000	↓	↓	↓		↓	1.516	1.125-18NEF
18	1.125	.094	.411	.691		.125	1.641	1.250-18NEF
20	1.250	.125	.473	.879		.250	1.828	1.375-18NEF
22	1.375	.125	.473	.879	↓	.250	1.954	1.500-18NEF
24	1.500	.125	.506	.912	.062	.250	2.078	1.625-18NEF

MIL-C-26482 II HSC SERIES 7000

NUMBERING SYSTEM

S 9 A – 7 10 1 – 12 – 10 P W – * – *

- STD. PLATING, SHELL-FUSED TIN, CONTACTS-GOLD; FOR STNL'S STL SHELL-PASSIVATE
- SPECIAL MODIFICATIONS
- ALTERNATE INSERT POSITION (NO LETTER FOR NORMAL)
- CONTACT DESIGNATOR P-PIN, S-SOCKET
- INSERT ARRANGEMENT
- SHELL SIZE
- CONTACT TERMINATION:
  - 1-FLATTEN & PIERCE
  - 2-STD SOLDER POT
  - 3-SHORT SOLDER POT
  - 4-STRAIGHT
  - 5-TURNED DOWN
  - 6 - CRIMP, REAR RELEASE
- CONFIGURATION
- COUPLING: 7-BAYONET PINS, 2-THREADED
- SERIES
- MIL-C-83723 SLASH NO.
- MATERIAL: S-COLD ROLL STEEL, SS-STAINLESS STEEL, X-INCONEL M-MONEL, OR AS SPECIFIED



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



MIL-C-83723 Series I Transfered to MIL-C-26482 Series II.

MIL-C-26482 Series II Directly Interchangeable and Intermateable with MIL-C-83723 Series I.

GENERAL SPECIFICATIONS

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

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

INSULATION RESISTANCE
GREATER THAN 5,000 MEGOHMS/500 VDC MIL-STD-202, METHOD 302.

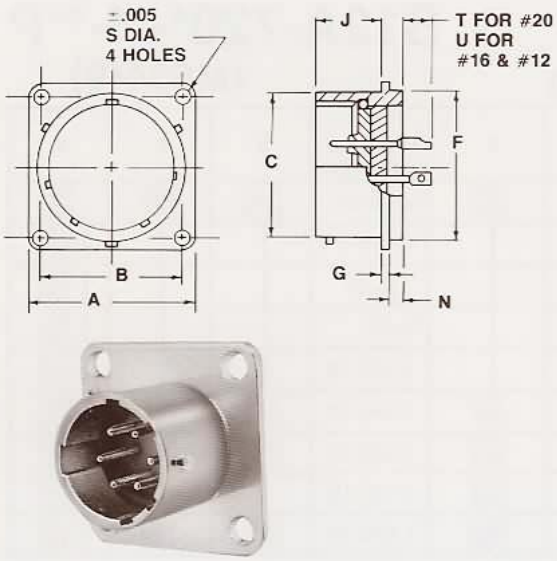
DIELECTRIC WITHSTANDING VOLTAGE
CONNECTORS SHOW NO EVIDENCE OF BREAKDOWN OR FLASHOVER WHEN TESTED AT VOLTAGES SHOWN IN ACCORDANCE WITH MIL-STD-202, METHOD 301.

Altitude Feet	Minimum Test Voltages AC (RMS)	
	Service Rating I	Service Rating II
Sea Level	1500	2300
50,000	500	750
70,000	375	500
110,000	200	200

THERMAL SHOCK
NO EVIDENCE OF DAMAGE DETRIMENTAL TO OPERATION OF CONNECTOR AT -55°C (-67°F) TO +175°C (+347°F), PER MIL-STD-202, METHOD 107.

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

MIL-C-26482 II HSC SERIES 7000

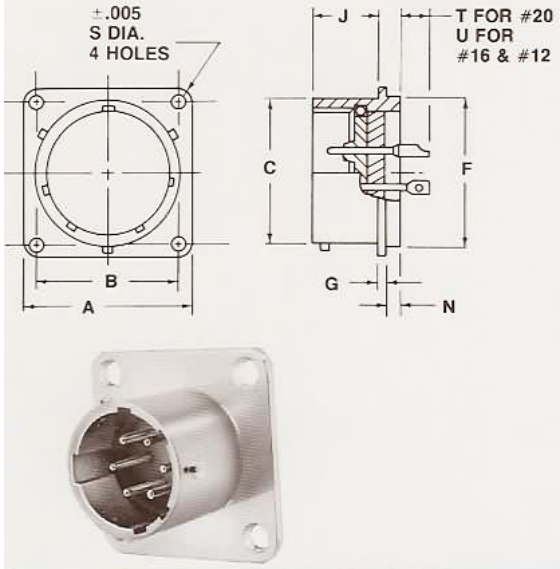


S9A-710*-**-**P

(MS3440H)

(WAS MIL-C-83723/9)

SHELL SIZE	A MAX.	B ±.005	C	F	G	J	N	S ±.005	T	U
8	.828	.594	.474 .468	.563 .557	.078 .046	.598 .578	.125 .105	.120	.178 .118	.248 .188
10	.954	.719	.591 .585	.673 .667	↑	↑	↑	↑	↑	↑
12	1.047	.812	.751 .745	.782 .776						
14	1.141	.906	.876 .870	.907 .901						
16	1.234	.969	1.001 .995	1.032 1.026	↓	↓	↓		↓	↓
18	1.328	1.062	1.126 1.120	1.157 1.151	.078 .046	.598 .578	.125 .105			
20	1.453	1.156	1.251 1.245	1.251 1.245	.110 .078	.660 .640	.093 .073	↓	.178 .118	.248 .188
22	1.578	1.250	1.376 1.370	1.376 1.370	↑	↑	.125 .105	.120	.146 .086	.216 .156
24	1.703	1.375	1.501 1.495	1.501 1.495	.110 .078	.660 .640	.125 .105	.147	.146 .086	.216 .156

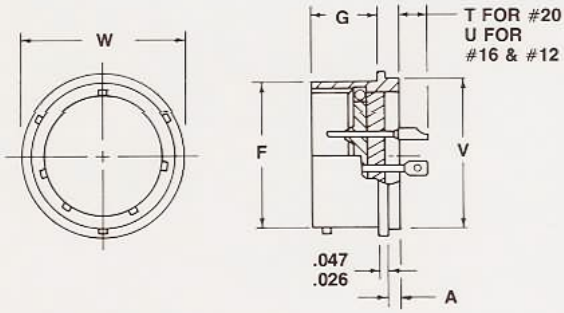


S10A-710*-**-**P

(MS3442H)

(WAS MIL-C-83723/10)

SHELL SIZE	A MAX.	B	C	F	G	J	N	S ±.005	T	U
8	1.065	.734	.474 .468	.563 .557	.078 .046	.598 .578	.125 .105	.120	.178 .118	.248 .188
10	1.141	.812	.591 .585	.673 .667	↑	↑	↑	↑	↑	↑
12	1.266	.938	.751 .745	.782 .776						
14	1.360	1.031	.876 .870	.907 .901						
16	1.452	1.125	1.001 .995	1.032 1.026	↓	↓	↓		↓	↓
18	1.532	1.203	1.126 1.120	1.157 1.151	.078 .046	.598 .578	.125 .105			
20	1.688	1.297	1.251 1.245	1.251 1.245	.110 .078	.660 .640	.093 .073	↓	.178 .118	.248 .188
22	1.766	1.375	1.376 1.370	1.376 1.370	↑	↑	.125 .105	.120	.146 .086	.216 .156
24	1.891	1.500	1.501 1.495	1.501 1.495	.110 .078	.660 .640	.125 .105	.147	.146 .086	.216 .156



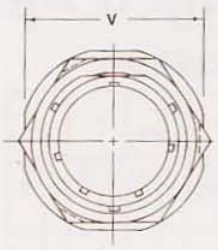
S11A-700*-**-**P

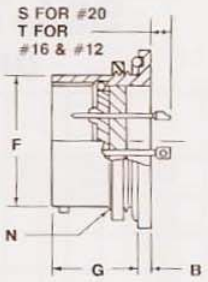
(MS3443H)

(WAS MIL-C-83723/11)

SHELL SIZE	A	F	G ±.005	T	U	V	W
8	.156 .116	.474 .468	.588	.178 .118	.248 .188	.563 .557	.635 .615
10	↑	.591 .585	↑	↑	↑	.673 .667	.760 .740
12		.751 .745				.782 .776	.854 .834
14		.876 .870				.907 .901	.979 .959
16		1.001 .995				1.032 1.026	1.104 1.084
18	↓	1.126 1.120	↓	↓	↓	1.157 1.151	1.228 1.208
20	.156 .116	1.251 1.245	.650	.178 .118	.248 .188	1.251 1.245	1.322 1.302
22	.188 .148	1.376 1.370	.650	.146 .086	.216 .156	1.376 1.370	1.448 1.428
24	.188 .148	1.501 1.495	.650	.146 .086	.216 .156	1.501 1.495	1.574 1.554

MIL-C-26482 II HSC SERIES 7000





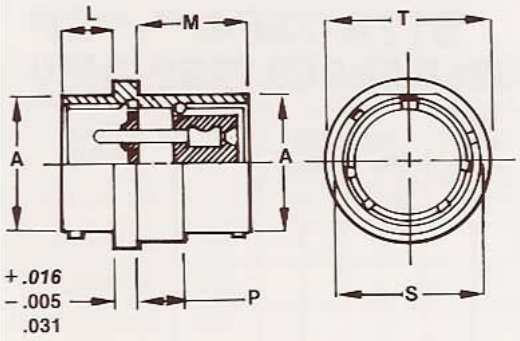


S12A-720*-**-**P

(WAS MIL-C-83723/12) (MS3449)

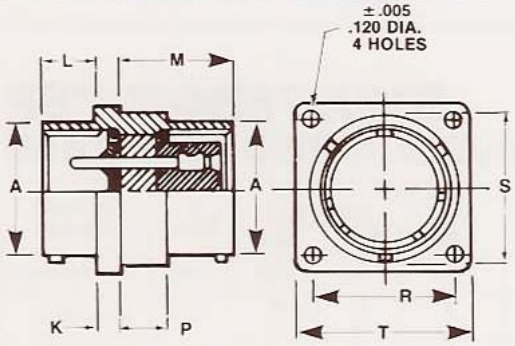
SHELL SIZE	B	F	G	N THREAD UNEF-2A	S	T	V
8	.113 .097	.474 .468	.707 .691	9/16-24	.134 .074	.204 .144	.954 .923
10	↑	.591 .585	↑	11/16-24	↑	↑	1.078 1.047
12	↑	.751 .745	↑	7/8-20	↑	↑	1.266 1.235
14	↑	.876 .870	↑	1-20	↑	↑	1.391 1.360
16	↑	1.001 .995	↑	1-1/8-18	↑	↑	1.516 1.485
18	↑	1.126 1.120	↑	1-1/4-18	↑	↑	1.641 1.610
20	.148 .128	1.251 1.245	.772 .754	1-3/8-18	.099 .039	.169 .109	1.828 1.797
22	↑	1.376 1.370	↑	1-1/2-18	↑	↑	1.954 1.923
24	.148 .128	1.501 1.495	.803 .785	1-5/8-18	.099 .039	.160 .109	2.078 2.047

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



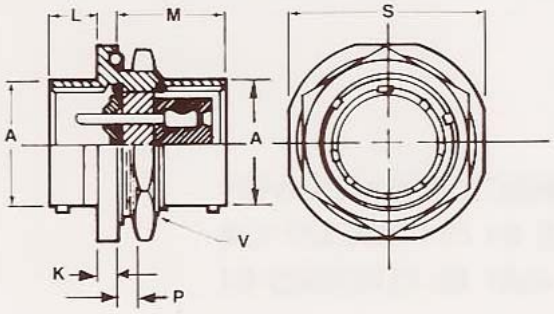
S12A-7604-**-**SP
DOUBLE ENDED FEED-THRU

Shell Size	A +.001 -.005	L +.031 -.000	M +.020 -.000	PANEL THICK P Max.	S +.001 -.005	T ±.016
6	.348	.411	.578	.125	.437	.500
8	.473	↕	↕	↕	.562	.625
10	.590	↕	↕	↕	.687	.750
12	.750	↕	↕	↕	.875	.844
14	.875	↕	↕	↕	1.000	.969
16	1.000	↕	↕	↕	1.125	1.094
18	1.125	.411	.578	.125	1.250	1.218
20	1.250	.473	.640	.250	1.375	1.312
22	1.375	.473	↕	.250	1.500	1.438
24	1.500	.506	.640	.250	1.625	1.563



S12A-7704-**-**SP
DOUBLE ENDED FEED-THRU

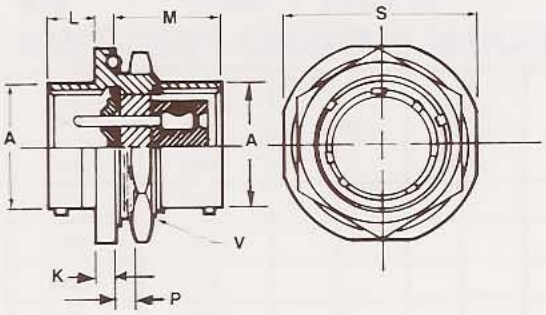
Shell Size	A +.001 -.005	K ±.016	L +.031 -.000	M +.020 -.000	Panel THICK Max.	R TP	S +.001 -.005	T Max.
6	.348	.062	.411	.578	.125	.469	.437	.704
8	.473	↕	↕	↕	↕	.594	.562	.828
10	.590	↕	↕	↕	↕	.719	.687	.954
12	.750	↕	↕	↕	↕	.812	.875	1.047
14	.875	↕	↕	↕	↕	.906	1.000	1.141
16	1.000	↕	↕	↕	↕	.969	1.125	1.234
18	1.125	.062	.411	.578	.125	1.062	1.250	1.328
20	1.250	.094	.473	.640	.250	1.156	1.375	1.453
22	1.375	.094	.473	↕	.250	1.250	1.500	1.578
24	1.500	.094	.506	.640	.250	1.375	1.625	1.703



S12A-7804-**-**SP
DOUBLE ENDED FEED-THRU

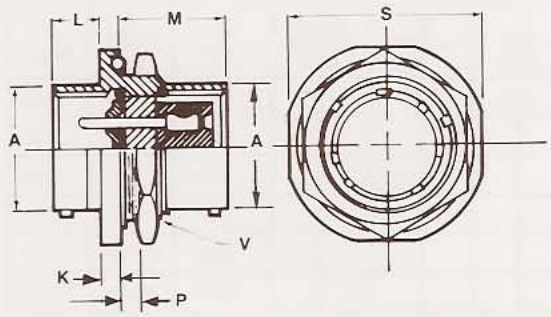
Shell Size	A +.001 -.005	K ±.020	L +.031 -.000	M +.031 -.000	P PANEL THK. Min.	P PANEL THK. Max.	S Max.	V Thread Class 2A
6	.348	.094	.411	.691	.062	.125	.828	.437-28UNEF
8	.473	↕	↕	↕	↕	↕	.954	.562-24NEF
10	.590	↕	↕	↕	↕	↕	1.078	.687-24NEF
12	.750	↕	↕	↕	↕	↕	1.266	.875-20UNEF
14	.875	↕	↕	↕	↕	↕	1.391	1.000-20UNEF
16	1.000	↕	↕	↕	↕	↕	1.516	1.125-18NEF
18	1.125	.094	.411	.691	↕	.125	1.641	1.250-18NEF
20	1.250	.125	.473	.754	↕	.250	1.828	1.375-18NEF
22	1.375	.125	.473	.754	↕	.250	1.954	1.500-18NEF
24	1.500	.125	.506	.785	.062	.250	2.078	1.625-18NEF

S12A-78F4-**-**SP
DOUBLE ENDED FEED-THRU



Shell Size	A +.001 −.005	K ±.020	L +.031 −.000	M +.031 −.000	P PANEL THK. Min.	P PANEL THK. Max.	S Max.	V Thread Class 2A
6	.348	.117	.411	1.316	0.62	.750	.828	.437-28UNEF
8	.473	↑	↑	↑	↑	↑	.954	.562-24NEF
10	.590						1.078	.687-24NEF
12	.750						1.266	.875-20UNEF
14	.875						1.391	1.000-20UNEF
16	1.000	↓	↓	↓			1.516	1.125-18NEF
18	1.125	.117	.411	1.316			1.641	1.250-18NEF
20	1.250	.148	.473	1.379			1.828	1.375-18NEF
22	1.375	.148	.473	1.379	↓	↓	1.954	1.500-18NEF
24	1.500	.148	.506	1.412	0.62	.750	2.078	1.625-18NEF

S12A-78B4-**-**SP
DOUBLE ENDED FEED-THRU



Shell Size	A +.001 −.005	K ±.020	L +.031 −.000	M +.031 −.000	P PANEL THK. Min.	P PANEL THK. Max.	S Max.	V Thread Class 2A
6	.348	.117	.411	1.066	0.62	.500	.828	.437-28UNEF
8	.473	↑	↑	↑	↑	↑	.954	.562-24NEF
10	.590						1.078	.687-24NEF
12	.750						1.266	.875-20UNEF
14	.875						1.391	1.000-20UNEF
16	1.000	↓	↓	↓			1.516	1.125-18NEF
18	1.125	.117	.411	1.066			1.641	1.250-18NEF
20	1.250	.148	.473	1.129			1.828	1.375-18NEF
22	1.375	.148	.473	1.129	↓	↓	1.954	1.500-18NEF
24	1.500	.148	.506	1.162	0.62	.500	2.078	1.625-18NEF

THE HERMETIC SEAL DOUBLE ENDED FEED THROUGH CONNECTOR MATES WITH STANDARD MIL-C-26482 CONNECTORS AND IS AVAILABLE IN PIN SOCKET OR SOCKET PIN CONFIGURATION, THAT IS PIN AND SOCKET MAY BE REVERSED IN RELATIONSHIP TO THE FLANGE MOUNT CONFIGURATION.