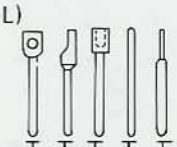
MIL-C-25955 HSC SERIES 1000

NUMBERING SYSTEM

S 1 05 1 – 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

Hermetic Seal Corporation Series 1000 connectors are miniature electrical receptacles of the hermetically sealed class H with non-removable contacts.

Hermetic Seal Corporation Series 1000 connectors are for use in applications wherein pressures must be contained by the connectors across the walls or panels on which they are mounted. The air leakage is low enough to be termed hermetically sealed. Moisture and environmental protection similar to the Class E is provided on the engaging end only when Class H receptacles are engaged with counterpart Class E connectors. HSC Series 1000 connectors are supplied only in receptacles with pin contacts.

GENERAL SPECIFICATIONS

AIR LEAKAGE (HERMETICITY)
LEAKAGE RATE LESS THAN .1 MICRON CUBIC FOOT PER HOUR (1×10^{-5} cc/sec) AT 15 P.S.I.

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

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

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	SEA LEVEL			Simulated Altitude	
	Disengaged Ungrometed	Engaged After Corrosion	Engaged After Immersion	Engaged	Dis-Engaged
1	1250	300	938	938	313
2	2400	600	1800	1800	600
3	3000	1500	2250	2250	750

THERMAL SHOCK
NO EVIDENCE OF DAMAGE DETRIMENTAL TO OPERATION OF CONNECTOR AFTER TESTING AT –55° (–67°F) TO +125°C (+257°F).

MOISTURE RESISTANCE
MAINTAINS INSULATION RESISTANCE OF 100 MEGOHMS/100 VDC OR GREATER PER MIL-STD-202, METHOD 106,

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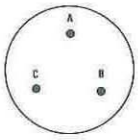
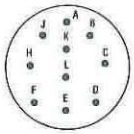
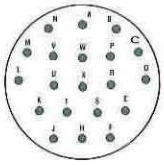
ENGAGING FACE OF PIN INSERT SHOWN



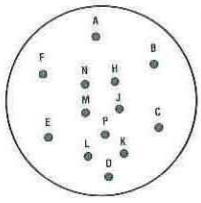
16-3
3 #20



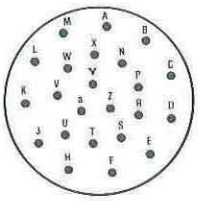
16-10
10 - #20



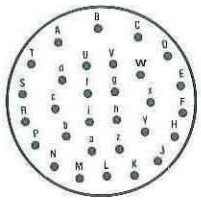
19-20
20 - #20



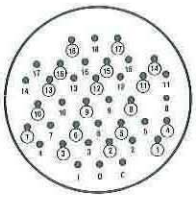
21-13
13 - #20



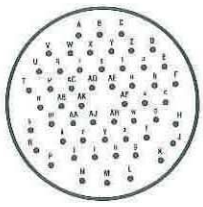
21-23
23 - #20



21-30
30 - #20



21-38
38 - #20

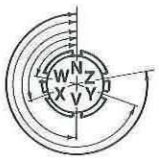


21-54
54 - #20

ALTERNATE INSERT POSITIONS

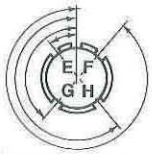
ALL LAYOUTS	Degrees V	W	Z	X	Y
	180	80	280	110	250

ALL LAYOUTS	Degrees E	F	G	H
	40	320	140	220



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

INSERT ARRANGEMENT DOES
NOT ROTATE WITH SHELL



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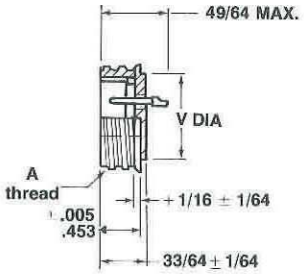

S105*–**–*P
(MS24239)

SHELL SIZE	A THREAD SPL. ACME	D DIA. ±1/64	V DIA. ±.005
16	1 – 6	1-1/16	.803
19	1-3/16 – 6	1-1/4	.984
21	1-5/16 – 6	1-7/16	1.171

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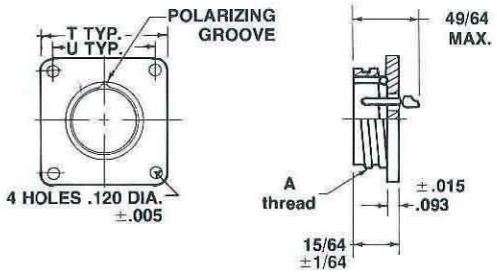
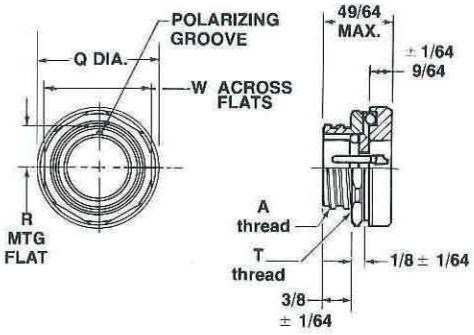


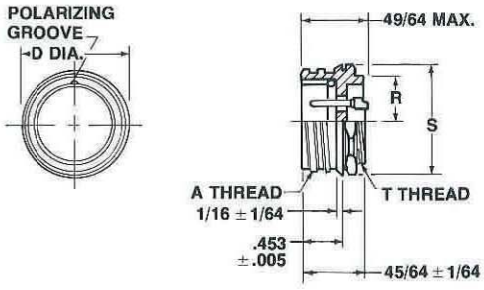
S110*_**_*P

SHELL SIZE	A THREAD SPL. ACME	T ±1/32	U ±.005
16	1 - 6	1-1/8	.843
19	1-3/16 - 6	1-1/4	.972
21	1-5/16 - 6	1-11/32	1.062
16L	1 - 6	1-23/64	1.078
19L	1-3/16 - 6	1-1/2	1.219
21L	1-5/16 - 6	1-11/16	1.297



S120*_**_*P
(MS24240)

SHELL SIZE	A THREAD SPL. ACME	Q DIA. ±1/64	R ±.005	T THREAD	W ±1/64
16	1 - 6	1-1/2	.500	1-1/8-18NEF-2A	1-7/16
19	1-3/16 - 6	1-11/16	.594	1-5/16-18NEF-2A	1-1/2
21	1-5/16 - 6	1-13/16	.656	1-7/16-18NEF-2A	1-5/8



S130*_**_*P
(MS24241)

SHELL SIZE	A THREAD SPL. ACME	D ±1/64	R Mounting Flat ±.010	S Across Flats ±1/64	T THREAD UNEF-2A
16	1 - 6	1-1/16	.375	1	7/8 - 20
19	1-3/16 - 6	1-1/4	.478	1-3/16	1-1/16 - 18
21	1-5/16 - 6	1-7/16	.578	1-3/8	1-1/4 - 18