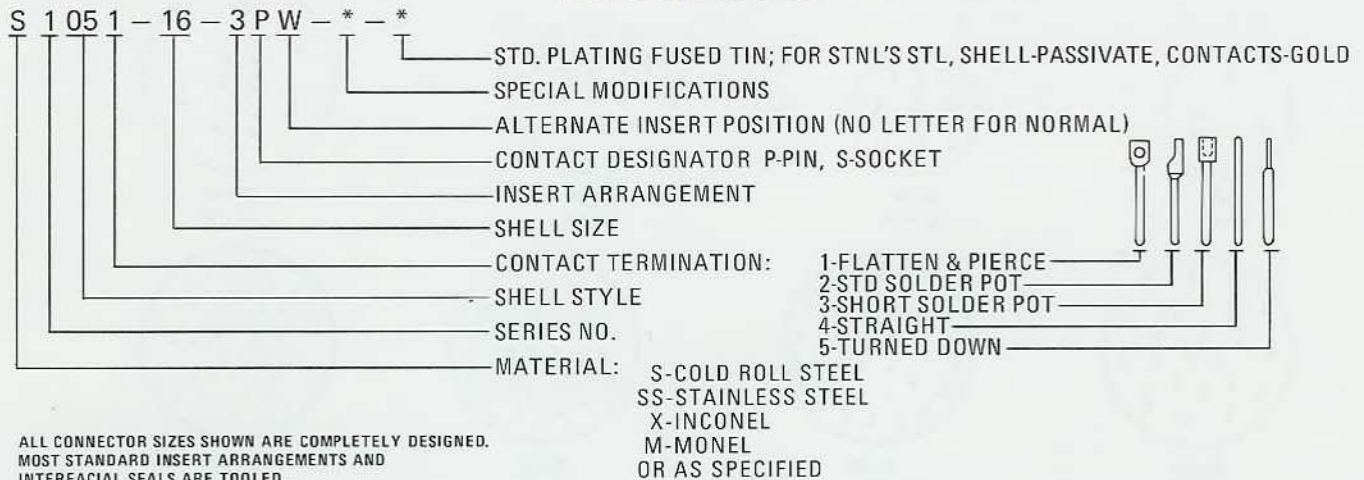


NUMBERING SYSTEM



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.

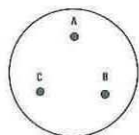
DIELECTRIC WITHSTANDING VOLTAGE
 CONNECTORS SHOW NO EVIDENCE OF BREAKDOWN OR FLASHOVER WHEN TESTED AT VOLTAGES SHOWN IN ACCORDANCE WITH MIL-STD-202, METHOD 301.

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

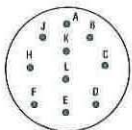
THERMAL SHOCK
 NO EVIDENCE OF DAMAGE DETRIMENTAL TO OPERATION OF CONNECTOR AFTER TESTING AT -55° (-67° F) TO $+125^{\circ}$ C ($+257^{\circ}$ F).

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

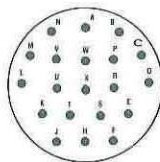
ENGAGING FACE OF PIN INSERT SHOWN



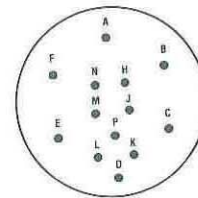
16-3
3 - #20



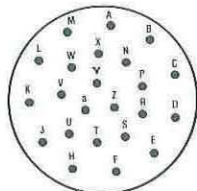
16-10
10 - #20



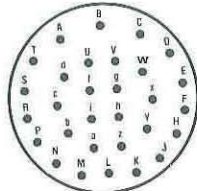
19-20
20 - #20



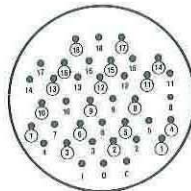
21-13
13 - #20



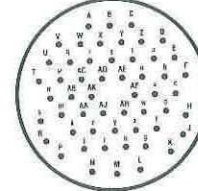
21-23
23 - #20



21-30
30 - #20



21-38
38 - #20

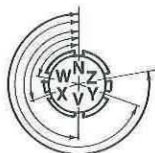


21-54
54 - #20

ALTERNATE INSERT POSITIONS

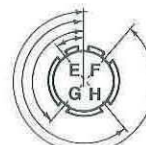
ALL LAYOUTS	Degrees				
	V	W	Z	X	Y
	180	80	280	110	250

ALL LAYOUTS	Degrees			
	E	F	G	H
	40	320	140	220



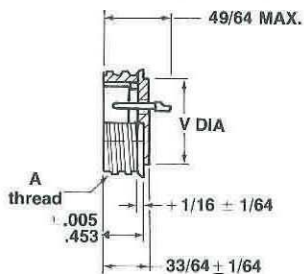
KEYWAY POSITION
ENGAGING FACE OF PIN INSERT
(SOCKET INSERT OPPOSITE)

INSERT ARRANGEMENT DOES NOT ROTATE WITH SHELL



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

POLARIZING GROOVE



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

