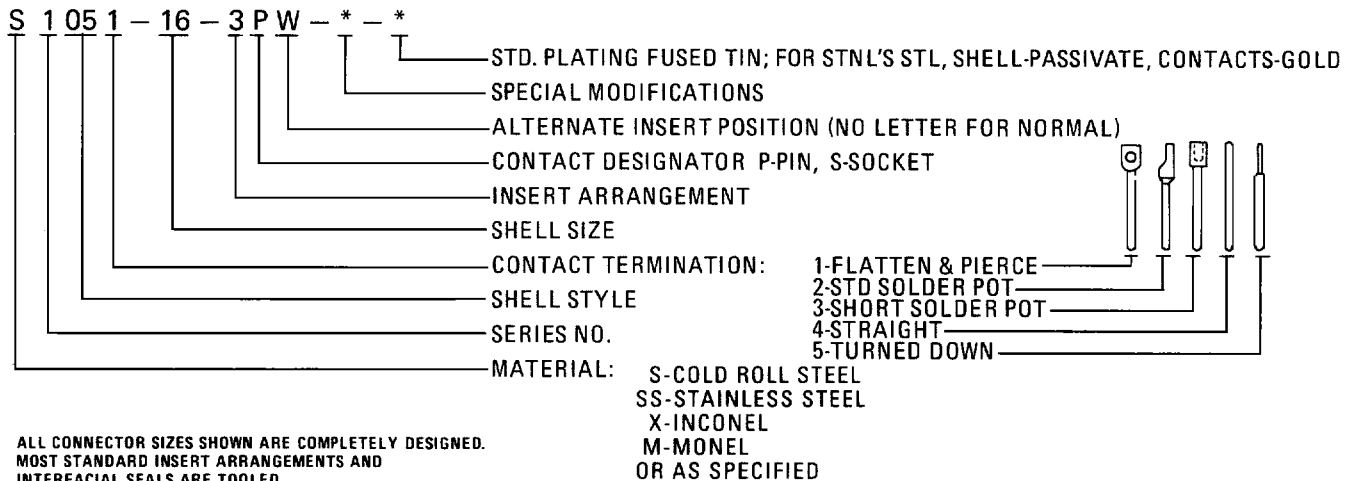
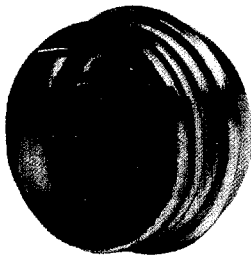


NUMBERING SYSTEM



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 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.

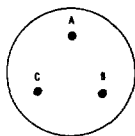
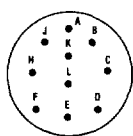
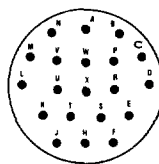
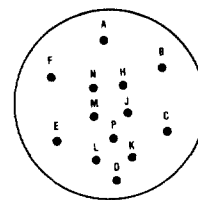
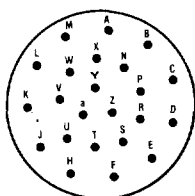
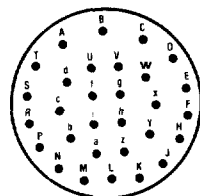
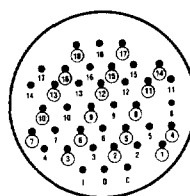
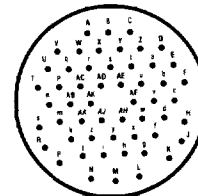
DIELECTRIC WITHSTANDING VOLTAGE
CONNECTORS SHOW NO EVIDENCE OF
BREAKDOWN OR FLASHOVER WHEN
TESTED AT VOLTAGES SHOWN IN ACCOR-
DANCE WITH MIL-STD-202, METHOD 301.

Service Rating	SEA LEVEL			Simulated Altitude	
	Disengaged Ungrouted	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 DETRIMEN-
TAL 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,

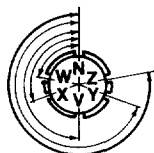
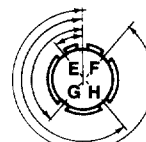
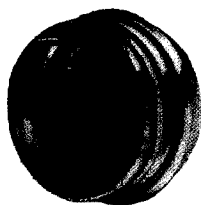
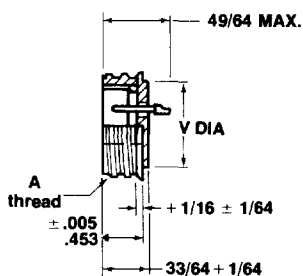
ENGAGING FACE OF PIN INSERT SHOWN

16-3
3 - #2016-10
10 - #2019-20
20 - #2021-13
13 - #2021-23
23 - #2021-30
30 - #2021-38
38 - #2021-54
54 - #20

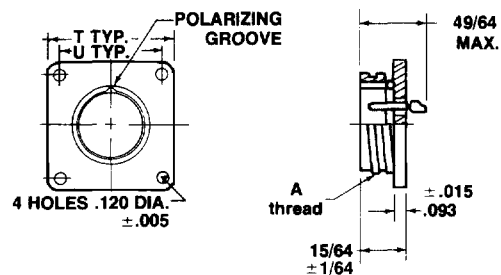
ALTERNATE INSERT POSITIONS

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

ALL LAYOUTS	Degrees			
	E	F	G	H
	40	320	140	220

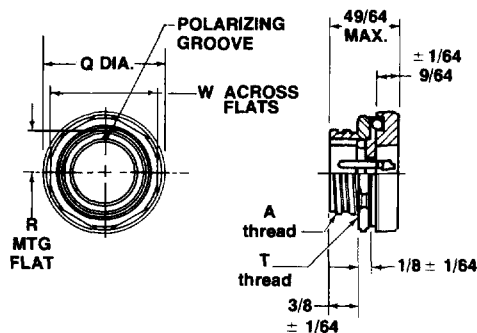
KEYWAY POSITION
ENGAGING FACE OF PIN INSERT
(SOCKET INSERT OPPOSITE)INSERT ARRANGEMENT DOES
NOT ROTATE WITH SHELLKEYWAY POSITION
ENGAGING FACE OF PIN INSERT
(SOCKET INSERT OPPOSITE)S105*-*-*P
(MS24239)

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

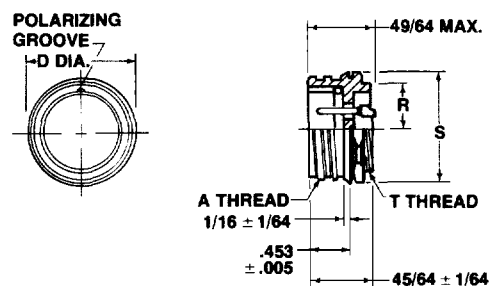


S110*-*P

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