Miniature Cylindrical MIL-C-83723, Series III
alternate positioning

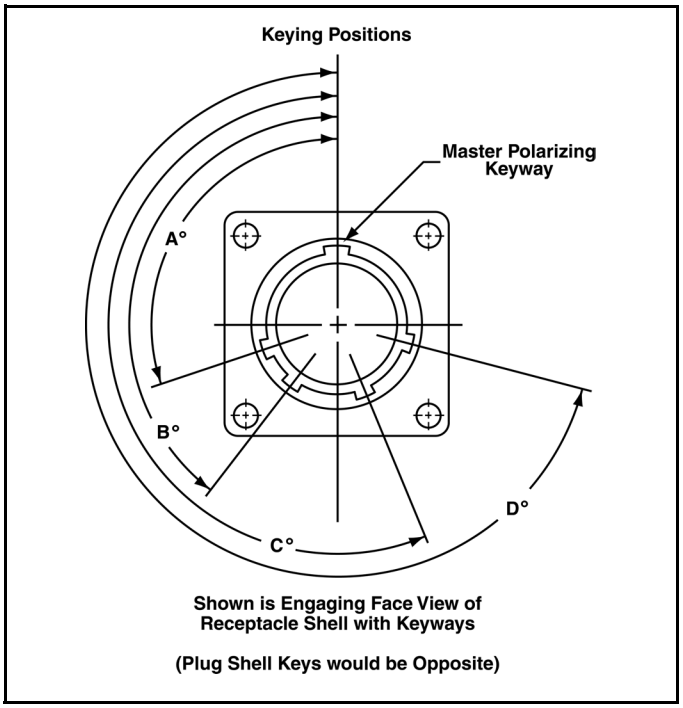
ALTERNATE KEYING POSITIONS
(Rotation of key/keyway of shell)

To avoid cross-plugging problems in applications requiring the use of more than one connector of the same size and arrangement, alternate keying positions are available as indicated in the chart below.

The diagram shows the engaging view of a receptacle shell with keyways. The insert is rotated counter-clockwise relative to the centerline. Plug shells would be the opposite of this diagram.

In the “Normal insert position” (position N), the insert center line coincides with the centerline of the master key/keyway of the shell.

In the “alternate keying positions” (positions 6, 7, 8, 9 and Y), the minor keys/lkeyways are positioned with reference to master key/keyway as indicated in the keying position table.



KEYING POSITIONS

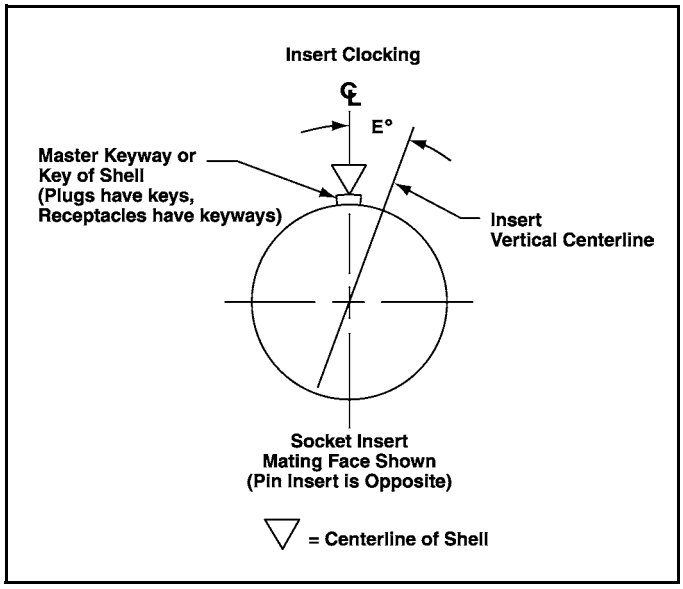
Shell Size	Polarizing Position	Key/Keyway Positions				Insert Position E°
		A°	B°	C°	D°	
8 thru 24	N	105	140	215	265	0
8 & 10	6	102	132	248	320	0
	7	80	118	230	312	0
	8	35	140	205	275	0
	9	64	155	234	304	0
10 only	Y*	25	115	220	270	0
12, 14, 16, 18, 20, 22, 24 and 28	6	18	149	192	259	0
	7	92	152	222	342	0
	8	84	152	204	334	0
	9	24	135	199	240	0
	Y*	98	152	268	338	0

* Position Y supersedes inactive positions 10 and Z designations. Ref. MIL-STD-1554.

ALTERNATE CLOCKING POSITIONS
(Rotation of insert)

Alternate positioning is also available with the rotation of the insert. The diagram below shows the pin insert mating face. The centerline of the shell in the normal insert position (position N) coincides with the centerline of the master key/keyway in the shell.

In alternate clocking positions, (positions 1, 2, 3, 4 and 5), the insert rotates relative to the centerline of the key/keyway of the shell. See E° callout on diagram and the table for insert clocking. The socket insert is rotated clockwise, and the pin insert is rotated counter-clockwise.



INSERT CLOCKING POSITIONS

Shell Size	Polarizing Position	Key/Keyway Positions				Insert Position E°
		A°	B°	C°	D°	
8 & 10	N	105	140	215	265	0
	1	105	140	215	265	10
	2	105	140	215	265	20
	3	105	140	215	265	30
	4	105	140	215	265	40
	5	105	140	215	265	50
12, 14, 16, 18, 20, 22, 24 and 28	N	105	140	215	265	0
	1	105	140	215	265	10
	2	105	140	215	265	20
	3	105	140	215	265	30
	4	105	140	215	265	40
	5	105	140	215	265	50

Note: Positions 1-5 are inactive for new designs per MIL-STD-1554.