

**INSERT ARRANGEMENTS**

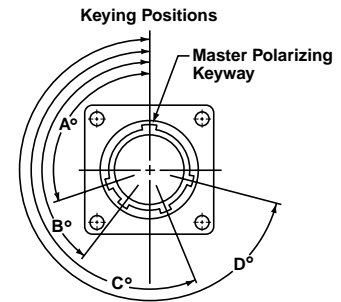
Shell Size/ Insert Arrangement	Service Rating	Total Contacts	Contact Size			
			8	12	16	20
08-03	I	3				3
08-98	I	3				3
10-02**	I	2				2
10-05	I	5				5
10-06	I	6				6
10-20	I	2			2	
12-03***	I	3			3	
12-12	I	12				12
14-04***	I	4		4		
14-07***	I	7			7	
14-12	I	12			3	9
14-15	I	15				15
16-10***	I	10			10	
16-24	I	24				24
18-08	I	8		8		
18-14***	I	14			14	
18-31	I	31				31
20-16***	I	16			16	
20-25	I	25		6		19
20-28**	I	28		4		24
20-39	I	39			2	37
20-41	I	41				41
22-12**	I	12		12		
22-19***	I	19				19
22-27	I	27				27
22-32**	I	32		6		26
22-39**	I	39			12	27
22-55	I	55				55
24-19†♦	I	19		19		
24-30†***	I	30				30
24-43**	I	43				20 23
24-46†♦♦	I	46	2 Twinax		4	40
24-57	I	57		2		55
24-61	I	61				61
28-41†	I	41				41
28-42†***	I	42				42
28-91†*	I	91				91

† Not an MS layout.  
 \* Special - consult Amphenol for availability.  
 \*\* Special Pyle with Matrix 83723 insert (ESC10 type, EN2997 Spec); consult Amphenol for availability.  
 \*\*\*Boeing Qualified Arrangements (See Boeing How to Order page 151)  
 ♦ 24-19 is a special ground plane insert with purchased size 12 Coax contacts; consult Amphenol for information.  
 ♦♦ 24-46 is a special insert that accommodates size 8 twinax contacts with ground spring.  
 Size 8 and Size 12 cavities can accommodate Twinax or Coax contacts; consult Amphenol for information.  
 Sizes 20, 24 and 28 Hermetic; consult Amphenol for availability.  
 Size 28 not available in Bayonet style.

**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 center-line. Plug shells would be the opposite of this diagram.

In the "Normal insert position" (position N), the insert center line coincides with the center-line of the master key/keyway of the shell. In the "alternate keying positions" (positions 6, 7, 8, 9 and Y), the minor keys/keyways are positioned with reference to master key/keyway as indicated in the keying position table.



Shown is Engaging Face View of Receptacle Shell with Keyways (Plug Shell Keys would be Opposite)

**ALTERNATE KEYING POSITIONS OF SHELL**

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

**ESC 11 (HTK SERIES) ONLY**

Shell Size	Polarizing Position	Key/Keyway Positions			
		A°	B°	C°	D°
14 thru 24	N	95	145	220	255
	6	101	168	211	342
	7	18	138	208	268
	8	26	156	208	276
	9	120	161	225	336

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

For ordering information on accessories, such as protection caps and backshell hardware, contact Amphenol Aerospace, Sidney, NY.