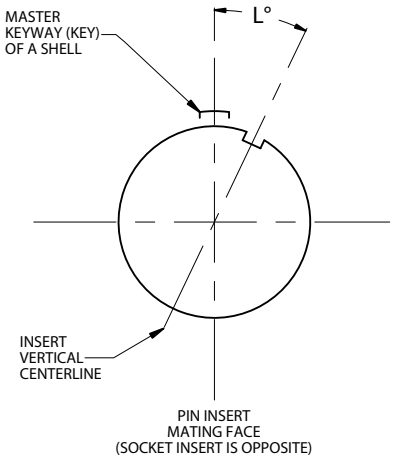
Polarization (Insert Clocking)

1. In the normal insert clocking position (position N), the insert centerline coincides with the centerline of the master keyway (key) of the shell: L = 0°.

2. In the alternate clocking positions (W, X, Y and Z), the pin insert (viewing from mating side) is rotated clockwise relative to the centerline of the master keyway (key) of the shell.
3. The socket insert is rotated counter-clockwise.
4. Plugs have keys; receptacles have keyways.

Note: Be careful with alternate positions. See table below for position availability on layouts of interest.



Insert Availability, Contact Information and Clocking Positions

Insert Arrangement	Aero-Electric		Total	Contact Quantity			Service	Insert Positions				
	Status		No. of	By Size				In Degrees				
	QPL'd	Tooled	Contacts	20	16	12	Rating	N	W	X	Y	Z
8-2	No	Yes	2	2			I	0	58	122	—	—
8-3	No	Yes	3	3			I	0	60	210	—	—
8-4	No	Yes	4	4			I	0	45	—	—	—
8-33	Yes	Yes	3	3			I	0	90	—	—	—
8-98	Yes	Yes	3	3			I	0	—	—	—	—
10-6	Yes	Yes	6	6			I	0	90	—	—	—
10-7	N/A	Yes	7	7			I	0	90	—	—	—
12-3	Yes	Yes	3		3		II	0	—	—	180	—
12-8	Yes	Yes	8	8			I	0	90	112	203	292
12-10	Yes	Yes	10	10			I	0	60	155	270	295
14-2	N/A	Yes	2			2	I	0	—	—	—	—
14-4	Yes	Yes	4			4	I	0	45	—	—	—
14-5	Yes	Yes	5		5		II	0	40	92	184	273
14-9	Yes	Yes	9	5		4	I	0	15	90	180	240
14-12	Yes	Yes	12	8	4		I	0	43	90	—	—
14-15	Yes	Yes	15	14	1		I	0	17	110	155	234
14-18	Yes	Yes	18	18			I	0	15	90	180	270
14-19	Yes	Yes	19	19			I	0	30	165	315	—

Note: Insert arrangements are subject to availability

Insert Availability, Contact Information and Clocking Positions

Insert Arrangement	Aero-Electric Status		Total No. of	Contact Quantity By Size			Service	Insert Positions In Degrees				
	QPL'd	Tooled	Contacts	20	16	12	Rating	N	W	X	Y	Z
16-8	Yes	Yes	8		8		II	0	54	152	180	331
16-14	Yes	Yes	14	8		6	I	0	25	78	180	240
16-23	Yes	Yes	23	22	1		I	0	158	270	—	—
16-26	Yes	Yes	26	26			I	0	60	—	275	338
18-8	Yes	Yes	8			8	I	0	180	—	—	—
18-11	Yes	Yes	11		11		II	0	62	119	241	340
18-30	Yes	Yes	30	29	1		I	0	180	193	285	350
18-32	Yes	Yes	32	32			I	0	85	138	222	265
20-16	Yes	Yes	16		16		II	0	238	318	333	347
20-24	Yes	Yes	24	24			I	0	70	145	215	290
20-39	Yes	Yes	39	37	2		I	0	63	144	252	333
20-41	Yes	Yes	41	41			I	0	45	126	225	—
22-12	Yes	Yes	12			12	I	0	—	—	—	—
22-21	Yes	Yes	21		21		II	0	16	135	175	349
22-41	Yes	Yes	41	27	14		I	0	39	135	264	—
22-55	Yes	Yes	55	55			I	0	30	142	226	314
22-95	Yes	Yes	32	26		6	I	0	26	180	266	—
24-19	Yes	No	19			19	II	0	30	165	315	—
24-31	Yes	Yes	31		31		I	0	90	225	255	—
24-61	Yes	Yes	61	61			I	0	90	180	270	324

Note: Insert arrangements are subject to availability

Contact and Wire Data

Contact Size	Test Current DC Test	MAX. Voltage Drop			Finished Wire ∅ Range		
	Amps	wire size	Initial mV	After corrosion mV	wire size	Min	Max
20	7.5	24 22 20	45 45 55	55 55 65	24 22 20	.047 (1.19)	.083 (2.11)
16	13.0	20 18 16	45 45 50	55 55 60	20 18 16	.066 (1.68)	.109 (2.77)
12	23.0	14 12	45 50	55 60	14 12	.097 (2.46)	.142 (3.61)

Note: Test Current and Maximum Voltage Drop when tested with silver-plated wire at 25°C.