

LAYOUTS BY NUMBER OF CONTACTS

Front face of pin inserts shown. (Sockets mirror image)

CONTACTS	1		2		
2M801	6-1	7-1	8-2	10-2	13-2
2M803	6-1	7-1	8-2	10-2	12-2
2M804	6-1	7-1	8-2	10-2	12-2
2M805	8-1	9-1	10-2	12-2	15-2
# OF CONTACTS & SIZE	1#16	1#12	2#16	2#12	2#12
DWV VOLTAGE (VAC)	1800	1800	1800	1800	1800

CONTACTS	3			4	
2M801	5-3	6-23	13-3	6-4	9-4
2M803	5-3	6-23	12-3	6-4	9-4
2M804	5-3	6-23	12-3	6-4	9-4
2M805	NA	8-23	15-3	8-4	11-4
# OF CONTACTS & SIZE	3#23	3#20HD	3#12	4#23	4#16
DWV VOLTAGE (VAC)	500	750	1800	500	1800

CONTACTS	5			6	
2M801	7-25	10-5	16-5	6-6	8-200
2M803	7-25	10-5	14-5	6-6	8-200
2M804	7-25	10-5	14-5	6-6	8-200
2M805	9-25	12-5	18-5	8-6	10-200
# OF CONTACTS & SIZE	5#20HD	5#16	5#12	6#23	4#23, 2#20
DWV VOLTAGE (VAC)	750	1800	1800	500	1000 (#20), 500 (#23)

CONTACTS	6 (CONT.)		7		
2M801	9-200	10-201	6-7	13-7	17-7
2M803	9-200	10-201	6-7	12-7	NA
2M804	9-200	10-201	6-7	12-7	NA
2M805	11-200	12-201	8-7	15-7	19-7
# OF CONTACTS & SIZE	4#23, 2#16	4#23, 2#12	7#23	7#16	7#12
DWV VOLTAGE (VAC)	1800 (#16), 500 (#23)	1800 (#12), 500 (#23)	500	1800	1800

CONTACTS	8			10		
2M801	8-28	13-200	7-10	9-201	9-210	10-202
2M803	8-28	12-200	7-10	9-201	9-210	10-202
2M804	8-28	12-200	7-10	9-201	9-210	10-202
2M805	10-28	15-200	9-10	11-201	11-210	12-202
# OF CONTACTS & SIZE	8#20HD	6#23, 2#12	10#23	8#23, 2#20	10#20HD	8#23, 2#16
DWV VOLTAGE (VAC)	750	1800 (#12), 500 (#23)	500	1000 (#700), 500 (#23)	750	1800 (#16), 500 (#23)

LAYOUTS BY NUMBER OF CONTACTS

Front face of pin inserts shown. (Sockets mirror image)

CONTACTS	12			13	
2M801	16-12	21-12	13-201	8-13	10-200
2M803	14-12	NA	12-201	8-13	10-200
2M804	14-12	NA	12-201	8-13	10-200
2M805	18-12	23-12	15-201	10-13	12-200
# OF CONTACTS & SIZE	12#16	12#12	10#23, 2#12	13#23	12#23, 1#12
DWV VOLTAGE (VAC)	1800	1800	1800(#12), 500(#23)	500	1800(#12), 500(#23)


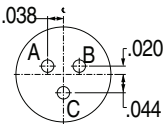
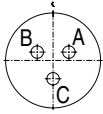

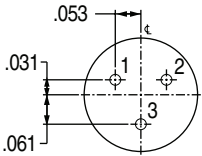
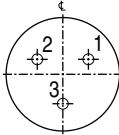

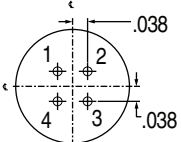
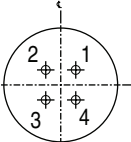

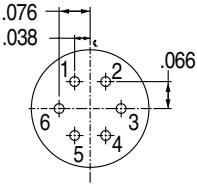
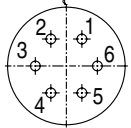

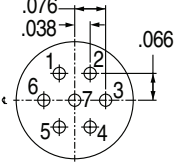
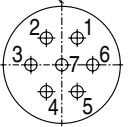
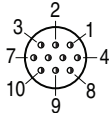
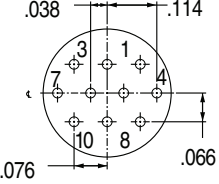
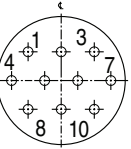
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2M801	17-14	9-19	13-220	21-22	10-26
2M803	NA	9-19	12-220	NA	10-26
2M804	NA	9-19	12-220	NA	10-26
2M805	19-14	11-19	15-220	23-22	12-26
# OF CONTACTS & SIZE	14#16	19#23	20#20HD	22#16	26#23
DWV VOLTAGE (VAC)	1800	500	750	1800	500

CONTACTS	35	37	41	55	69
2M801	16-235	13-37	17-241	16-55	21-269
2M803	14-235	12-37	NA	14-55	NA
2M804	14-235	12-37	NA	14-55	NA
2M805	18-235	15-37	19-241	18-55	23-269
# OF CONTACTS & SIZE	35#20HD	37#23	41#20HD	55#23	69#20HD
DWV VOLTAGE (VAC)	750	500	750	500	750


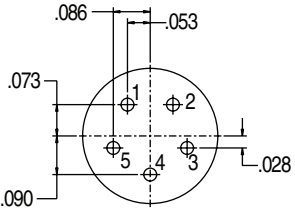
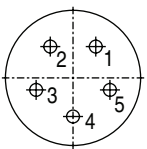
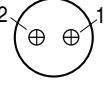
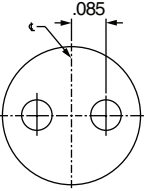
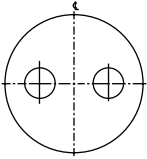
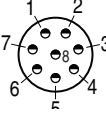
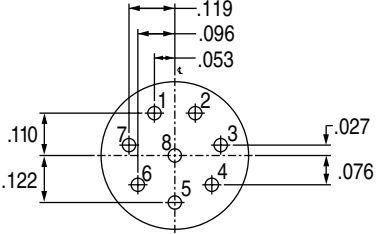
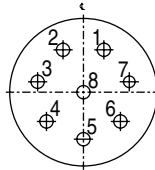
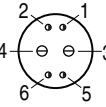
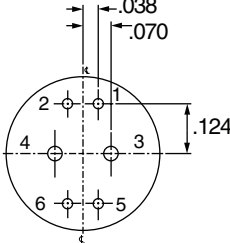
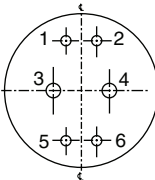
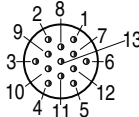
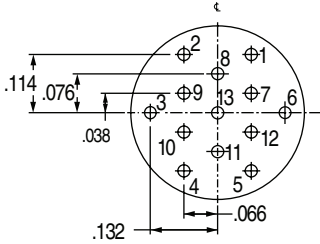
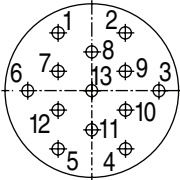

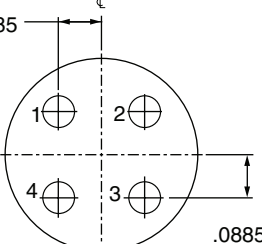
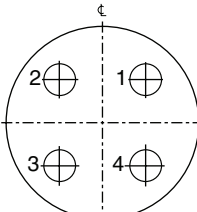
CONTACTS	85	130
2M801	17-85	21-130
2M803	NA	NA
2M804	15-85	NA
2M805	19-85	23-130
# OF CONTACTS & SIZE	85#23	130#23
DWV VOLTAGE (VAC)	500	500

STRAIGHT PCB FOOTPRINTS

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

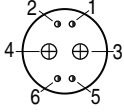
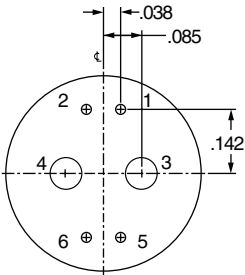
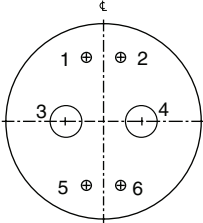
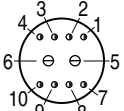
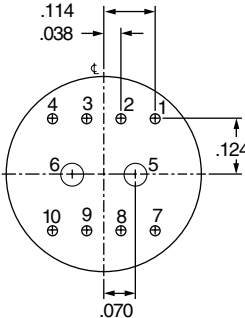
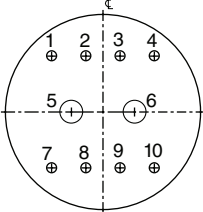
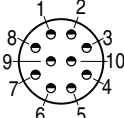
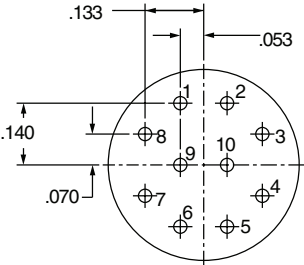
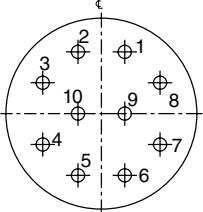
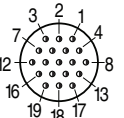
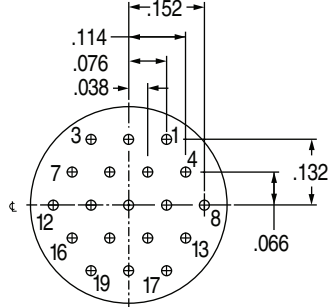
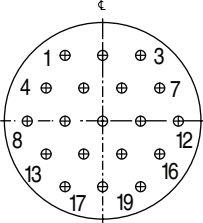

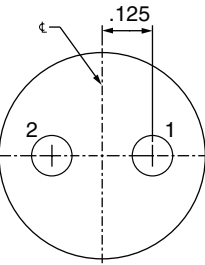
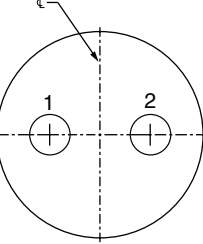
Insert Arrangement	Pin Connector	Socket Connector
 <p>5-3 (3) #23 Contacts .022 Max. Dia Tail</p>		
 <p>6-23, 8-23 (3) #20HD Contacts .023 Max. Dia. Tail</p>		
 <p>6-4, 8-4 (4) #23 Contacts .022 Max. Dia Tail</p>		
 <p>6-6, 8-6 (6) #23 Contacts .022 Max. Dia. Tail</p>		
 <p>6-7, 8-7 (7) #23 Contacts .022 Max. Dia. Tail</p>		
 <p>7-10, 9-10 10 #23 Contacts .022 Max. Dia. Tail</p>		

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

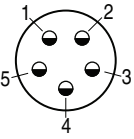
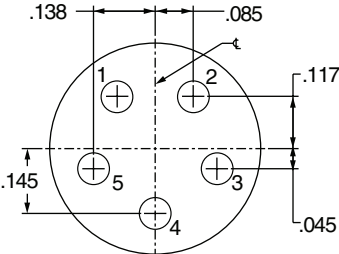
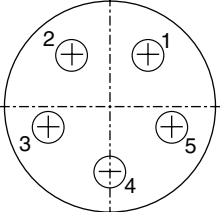
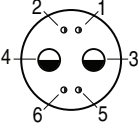
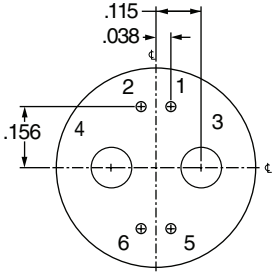
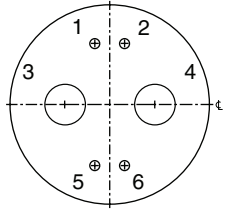
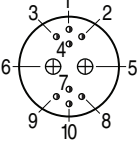
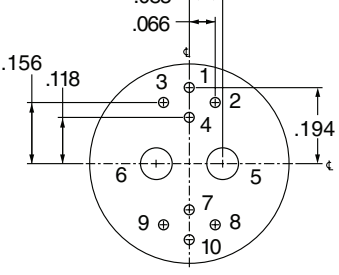
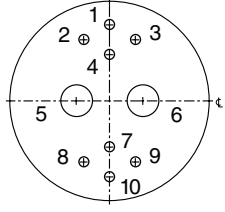
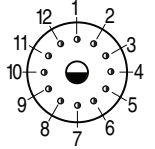
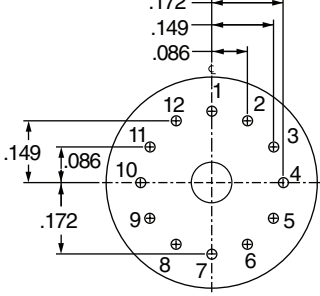
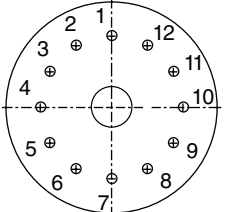
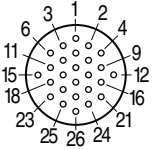
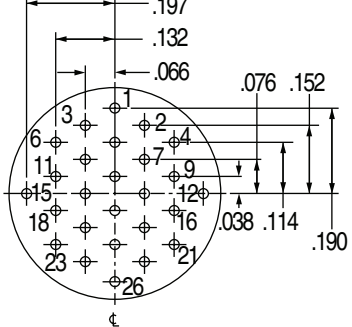
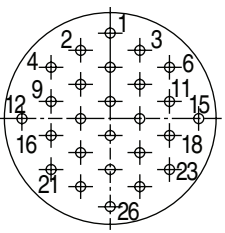
Insert Arrangement	Pin Connector	Socket Connector
 <p>7-25, 9-25 (5) #20HD Contacts .028 Max. Dia Tall</p>		
 <p>8-2, 10-2 (2) #16 Contacts</p>		
 <p>8-28, 10-28 (8) #20HD Contacts</p>		
 <p>8-200, 10-200 (2) #20 Contacts (4) #23 Contacts</p>		
 <p>8-13, 10-13 (13) #23 Contacts .022 Max. Dia. Tail</p>		
 <p>9-4, 11-4 (4) #16 Contacts</p>		

STRAIGHT PCB FOOTPRINTS

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

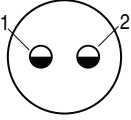
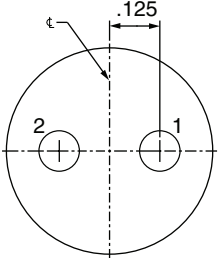
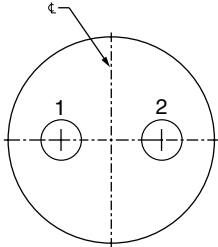
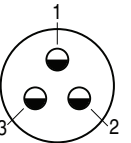
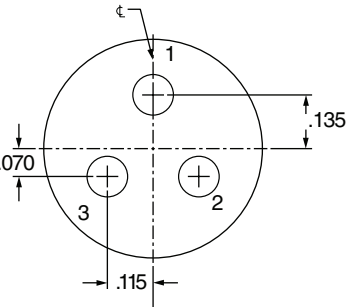
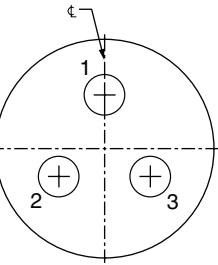
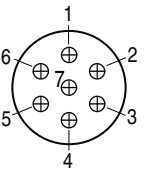
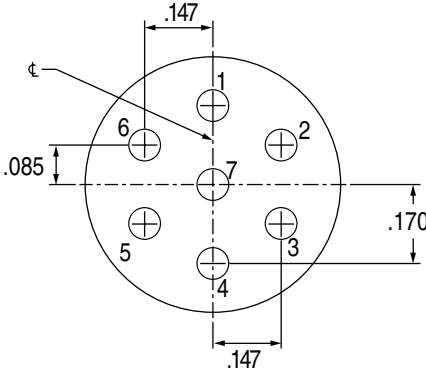
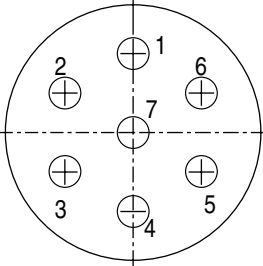
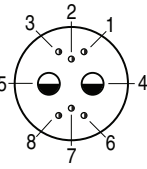
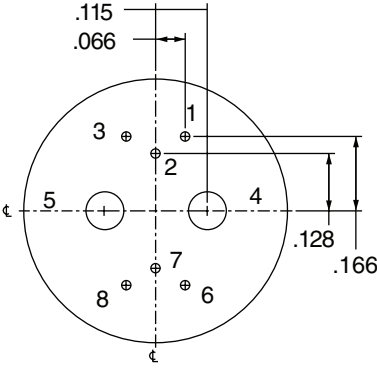
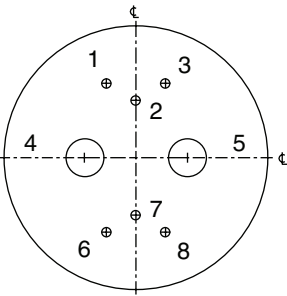
Insert Arrangement	Pin Connector	Socket Connector
 <p>9-200, 11-200 (4) #23 Contacts (2) #16 Contacts</p>		
 <p>9-201, 11-201 (2) #20 Contacts (8) #23 Contacts</p>		
 <p>9-210, 11-210 (10) #20HD Contacts</p>		
 <p>9-19, 11-19 (19) #20 Contacts .022 Max. Dia Tail</p>		
 <p>10-2, 12-2 (2) #12 Contacts</p>		

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

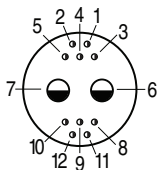
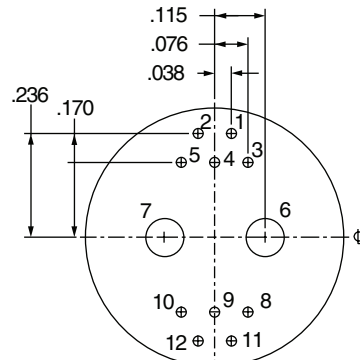
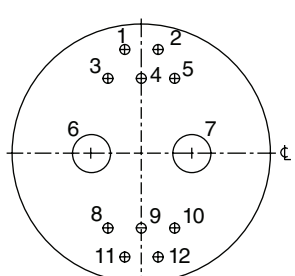
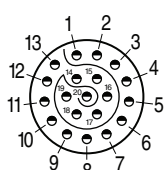
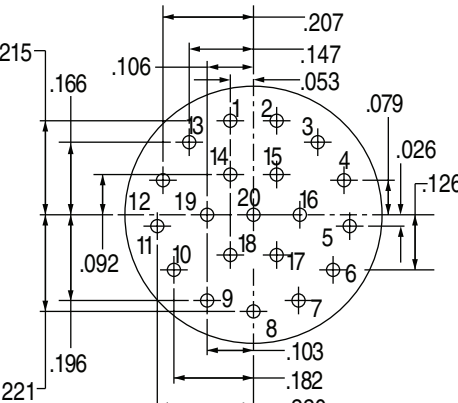
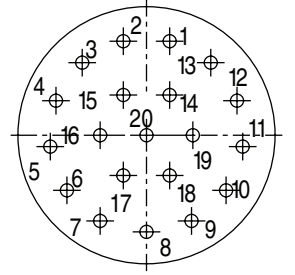
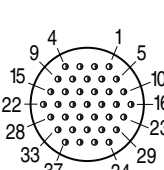
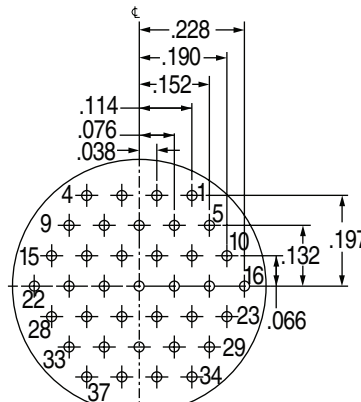
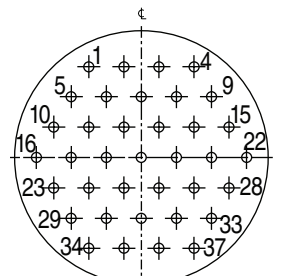
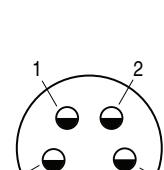
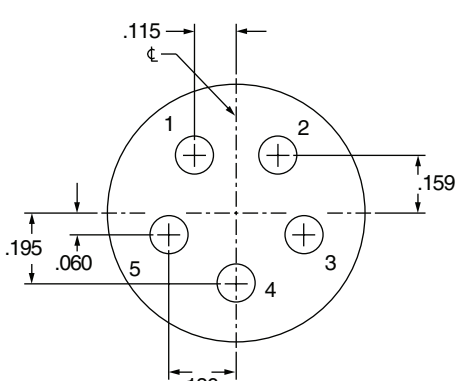
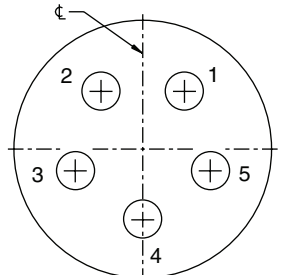
Insert Arrangement	Pin Connector	Socket Connector
 <p>10-5, 12-5 (5) #16 Contacts</p>		
 <p>10-201, 12-201 (2) #12 Contacts (4) #23 Contacts</p>		
 <p>10-202, 12-202 (2) #16 Contacts (8) #23 Contacts</p>		
 <p>10-200, 10-200 (1) #12 Contact (12) #23 Contacts</p>		
 <p>10-26, 12-26 (26) #23 Contacts .022 Max. Dia. Tail</p>		

STRAIGHT PCB FOOTPRINTS

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

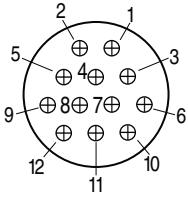
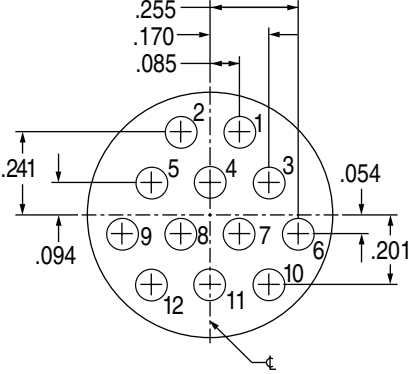
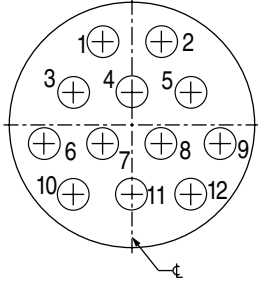
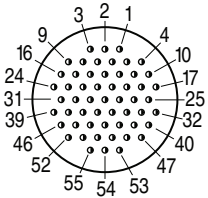
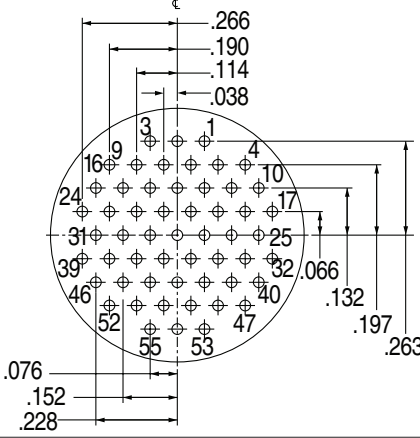
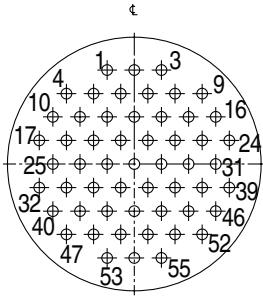
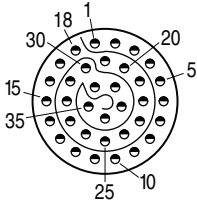
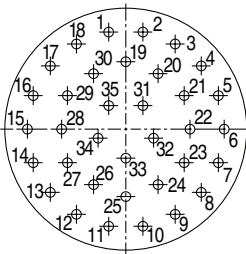
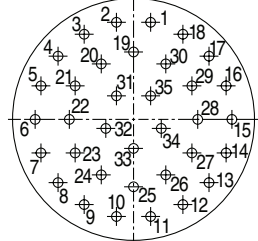
Insert Arrangement	Pin Connector	Socket Connector
 <p>12-2, 13-2, 15-2 (2) #12 Contacts</p>		
 <p>12-3, 13-3, 15-3 (3) #12 Contacts</p>		
 <p>12-7, 13-7, 15-7 (7) #16 Contacts</p>		
 <p>12-200, 13-200, 15-200 (2) #12 Contacts (6) #23 Contacts</p>		

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

Insert Arrangement	Pin Connector	Socket Connector
 <p>12-201, 13-201, 15-201 (2) #12 Contacts (10) #23 Contacts</p>		
 <p>12-220, 13-220, 15-220 (20) #20HD Contacts</p>		
 <p>12-37, 13-37, 15-37 (37) #23 Contacts .022 Max. Dia. Tail</p>		
 <p>14-5, 16-5, 18-5 (5) #12 Contacts</p>		

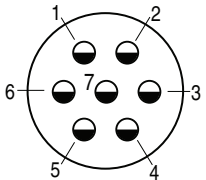
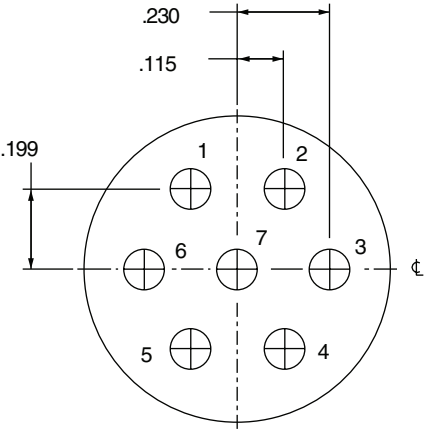
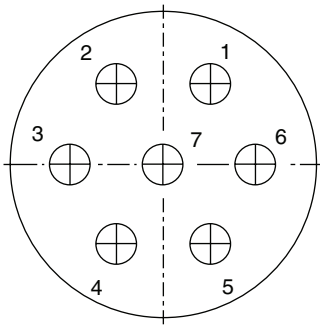
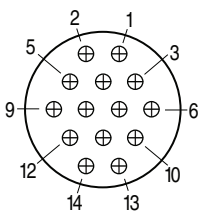
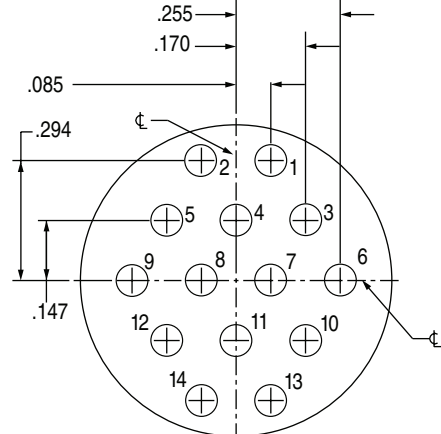
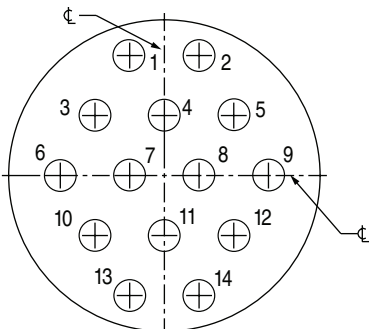
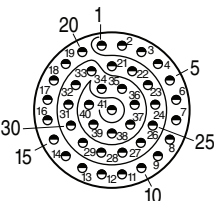
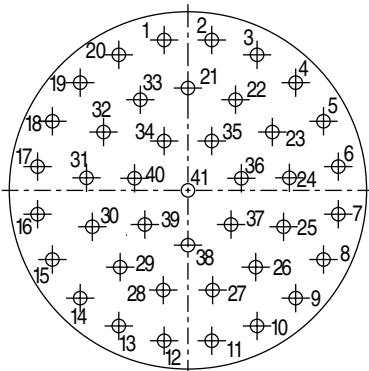
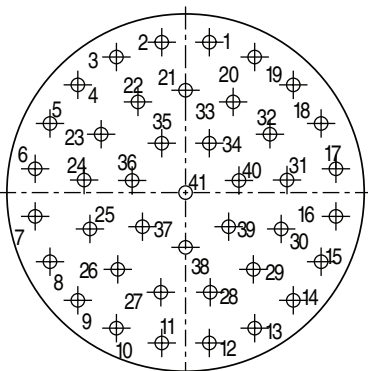
STRAIGHT PCB FOOTPRINTS

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

Insert Arrangement	Pin Connector	Socket Connector
 <p>14-12, 16-12, 18-12 (12) #16 Contacts</p>		
 <p>14-55, 16-55, 18-55 (55) #23 Contacts .022 Max. Dia. Tail</p>		
 <p>14-235, 16-235, 18-235 (35) #20HD Contacts .023 Max. Dia. Tail</p>		

Pin. No.	X		Y		Pin. No.	X		Y		Pin. No.	X		Y	
	in.	mm.	in.	mm.		in.	mm.	in.	mm.		in.	mm.	in.	mm.
1	-.053	-1.35	.301	7.65	13	-.234	-5.94	-.196	-4.98	25	.000	0.00	-.209	-5.31
2	.053	1.35	.301	7.65	14	-.287	-7.29	-.104	-2.64	26	-.100	-2.54	-.172	-4.37
3	.153	3.89	.264	6.71	15	-.305	-7.75	.000	0.00	27	-.181	-4.60	-.104	-2.64
4	.234	5.94	.196	4.98	16	-.287	7.29	.104	2.64	28	-.199	-5.05	.000	0.00
5	.287	7.29	.104	2.64	17	-.234	-5.94	-.196	4.98	29	-.181	-4.60	.104	2.64
6	.305	7.75	.000	0.00	18	-.153	-3.89	.264	6.71	30	-.100	-2.54	.172	4.37
7	.287	7.29	-.104	-2.64	19	.000	0.00	.209	5.31	31	-.053	-1.35	.073	1.85
8	.234	5.94	-.196	-4.98	20	.100	2.54	.172	4.37	32	.053	1.35	.073	1.85
9	.153	3.89	-.264	-6.71	21	.181	4.60	.104	2.64	33	.086	2.18	-.028	-0.71
10	.053	1.35	-.301	-7.65	22	.199	5.05	.000	0.00	34	.000	0.00	-.090	-2.29
11	-.053	-1.35	-.301	-7.65	23	.181	4.60	-.104	-2.64	35	-.086	-2.18	-.028	-0.71
12	-.153	-3.89	-.264	-6.71	24	.100	2.54	-.172	-4.37	-	-	-	-	-

Socket inserts are a mirror image of pin side. Socket side shown for cavity locations only, reference pin side for dimensions.

Insert Arrangement	Pin Connector	Socket Connector
 <p>15-7, 17-7, 19-7 (7) #12 Contacts</p>		
 <p>15-14, 17-14, 19-14 (14) #16 Contacts</p>		
 <p>15-241, 16-241, 18-241 (41) #20HD Contacts .028 Max. Dia. Tail</p>		

Pin. No.	X		Y		Pin. No.	X		Y		Pin. No.	X		Y	
	in.	mm.	in.	mm.		in.	mm.	in.	mm.		in.	mm.	in.	mm.
1	-.053	-1.35	.335	8.51	15	-.302	-7.67	-.154	-3.91	29	-.151	-3.84	-.171	-4.34
2	.053	1.35	.335	8.51	16	-.335	-8.51	-.053	-1.35	30	-.213	-5.41	-.081	-2.06
3	.154	3.91	.302	7.67	17	-.335	-8.51	.053	1.35	31	-.226	-5.74	.028	0.71
4	.240	6.10	.240	6.10	18	-.302	-7.67	.154	3.91	32	-.188	-4.78	.130	3.30
5	.302	7.67	.154	3.91	19	-.240	-6.10	.240	6.10	33	-.106	-2.69	.202	5.13
6	.335	8.51	.053	1.35	20	-.154	-3.91	.302	7.67	34	-.053	-1.35	.110	2.79
7	.335	8.51	-.053	-1.35	21	.000	0.00	.228	5.79	35	.053	1.35	.110	2.79
8	.302	7.67	-.154	-3.91	22	.106	2.69	.202	5.13	36	.119	3.02	.027	0.69
9	.240	6.10	-.240	-6.10	23	.188	4.78	.130	3.30	37	.096	2.44	-.076	-1.93
10	.154	3.91	-.302	-7.67	24	.226	5.74	.028	0.71	38	.000	0.00	-.122	-3.10
11	+.053	+1.35	-.335	-8.51	25	.213	5.41	-.081	-2.06	39	-.096	-2.44	-.076	-1.93
12	-.053	-1.35	-.335	-8.51	26	.151	3.84	-.171	-4.34	40	-.119	-3.02	.027	0.69
13	-.154	-3.91	-.302	-7.67	27	.055	1.40	-.222	-5.64	41	.000	0.00	.000	0.00
14	-.240	-6.10	-.240	-6.10	28	-.055	-1.40	-.222	-5.64	-	-	-	-	-

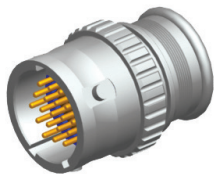
1	2	3	4	5	6
2M803-003-07	NF	8-13	P	N	-501
SHELL STYLE	PLATING	SHELL SIZE-LAYOUT	CONTACT TYPE	KEYING	MODIFIER

STEP 1: SELECT SHELL STYLE, PLUG OR RECEPTACLE

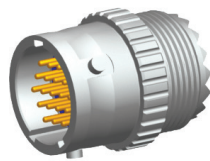
RECEPTACLES

Mates with

PLUGS



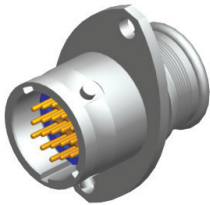
2M803-003-01
In-Line with Integral Backshell



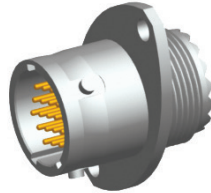
2M803-004-01
In-Line with Rear Accessory Threads



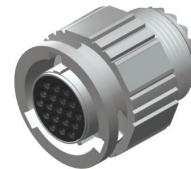
2M803-001-06
Plug with Integral Backshell



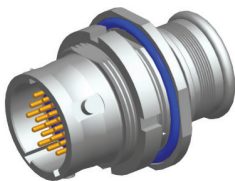
2M803-003-02
2-Hole Flange with Integral Backshell



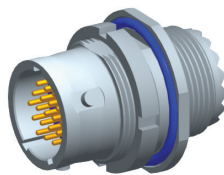
2M803-004-02
2-Hole Flange with Rear Accessory Threads



2M803-002-06
Plug with Rear Accessory Thread



2M803-003-07*
Jam Nut with Integral Backshell



2M803-004-07*
Jam Nut with Rear Accessory Threads

*add "-501" to the suffix of Jam Nut version to include a Hex Nut instead of a Spanner Nut. See Step 6.

STEP 2: SELECT PLATING

- C** = Aluminum/ Black Anodize (Non-Conductive) (RoHS)
- M** = Aluminum/ Electroless Nickel (RoHS)
- NF** = Aluminum/ Cadmium with Olive Drab Chromate
- MT** = Aluminum/ Nickel-PTFE (Duralon) (RoHS)
- Z1** = Stainless Steel/ Passivated
- ZM** = Stainless Steel/ Electroless Nickel (RoHS)
- ZN** = Aluminum/ Zinc-Nickel with Olive Drab Chromate
- ZNU** = Aluminum/ Zinc-Nickel with Black Chromate (RoHS)

STEP 3: SELECT LAYOUT

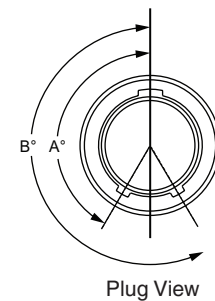
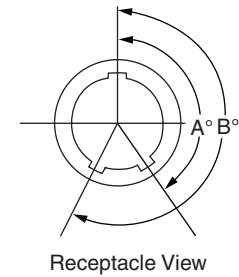
LAYOUT	# OF CONTACTS	CONTACT SIZE				
		23	20	20HD	16	12
5-3	3	3				
6-1	1				1	
6-4	4	4				
6-6	6	6				
6-7	7	7				
6-23	3			3		
7-1	1					1
7-10	10	10				
7-25	5			5		
8-2	2				2	
8-13	13	13				
8-28	8			8		
8-200	6	4	2			
9-4	4				4	
9-19	19	19				
9-200	6	4			2	
9-201	10	8	2			
9-210	10			10		
10-2	2					2
10-5	5				5	
10-26	26	26				
10-200	13	12				1
10-201	6	4				2
10-202	10	8			2	
12-2	2					2
12-3	3					3
12-7	7				7	
12-37	37	37				
12-200	8	6				2
12-201	12	10				2
12-220	20			20		
14-5	5					5
14-12	12				12	
14-55	55	55				
14-235	35			35		
15-7	7					7
15-14	14				14	
15-85	85	85				

STEP 4: SELECT CONTACT

- P** = Pin
- S** = Socket
- A** = Less pin contacts
- B** = Less socket contacts

STEP 5: SELECT KEYING

	A KEYWAY DEGREE	B KEYWAY DEGREE
N	150	210
X	75	210
Y	95	230
Z	140	275



STEP 6: SELECT MODIFIER*

-501 = Hex nut supplied

Blank = Default Spanner Nut supplied

*For Jam nut type only