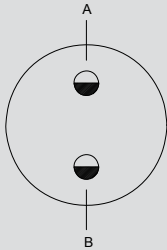
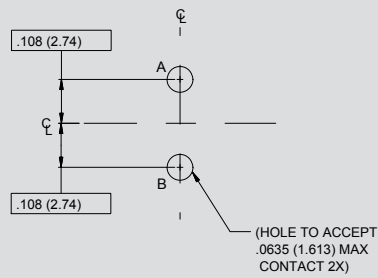


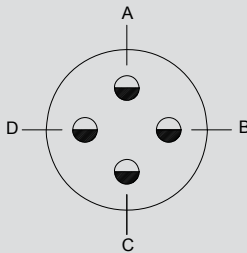
**Size 10 - Viewed from Connector Mounting Side, Pin Face**



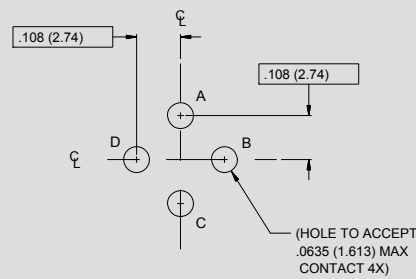
Insert Arrangement  
10-2  
2 #16 Contacts



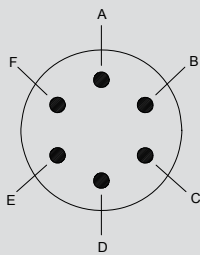
Pin Connector



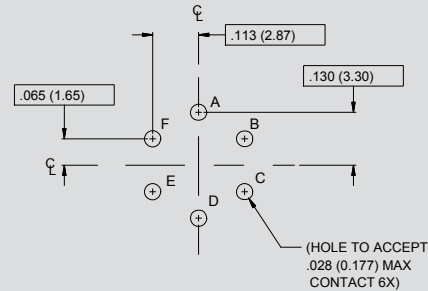
Insert Arrangement  
10-4  
4 #16 Contacts



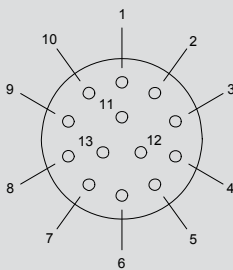
Pin Connector



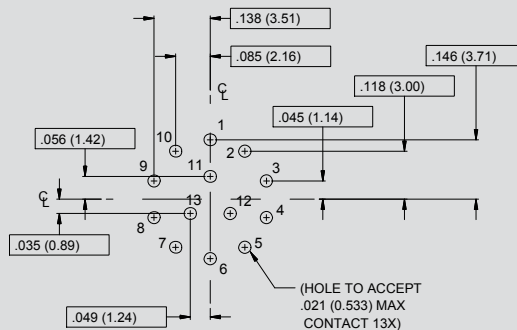
Insert Arrangement  
10-6  
6 #20 Contacts



Pin Connector



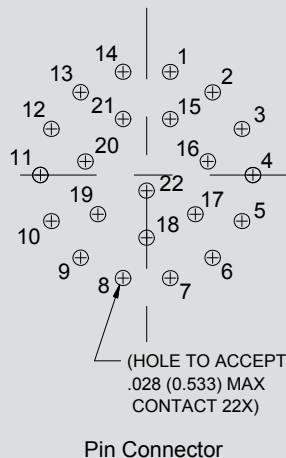
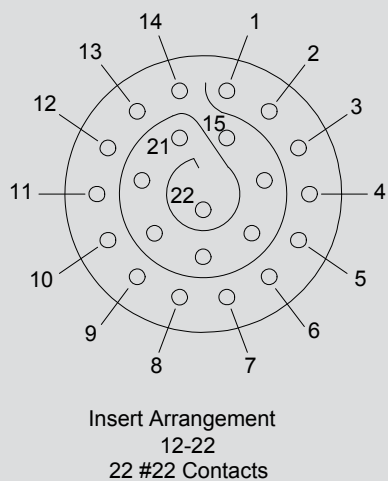
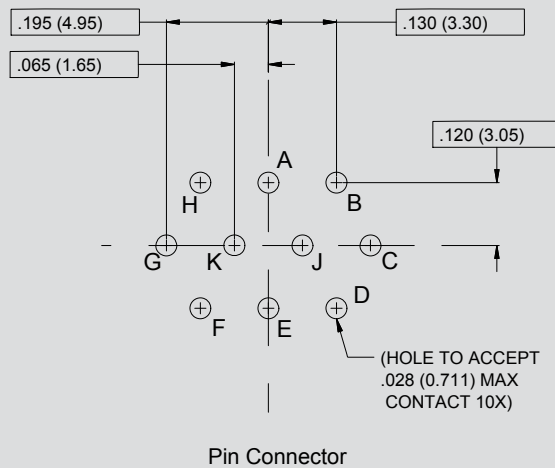
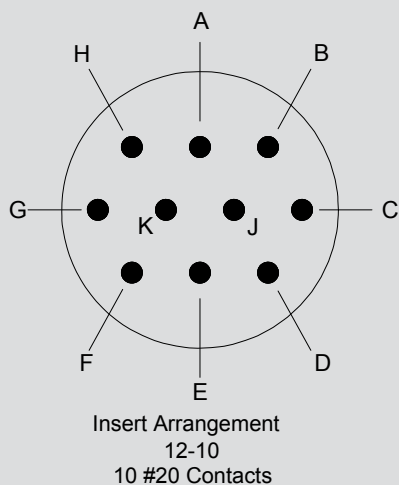
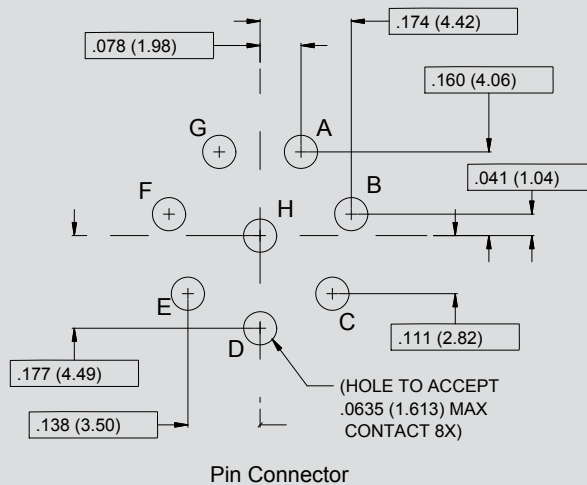
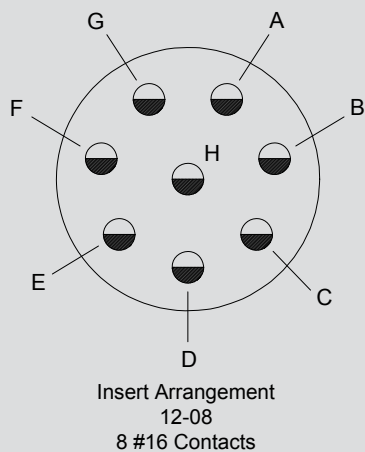
Insert Arrangement  
10-13  
13 #22 Contacts



Pin Connector



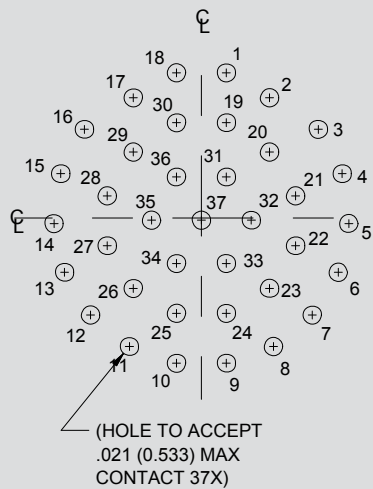
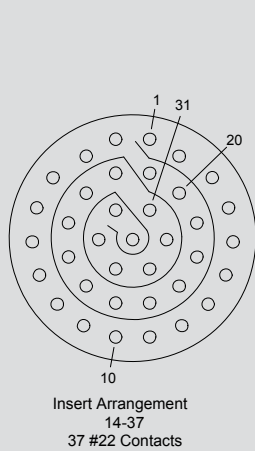
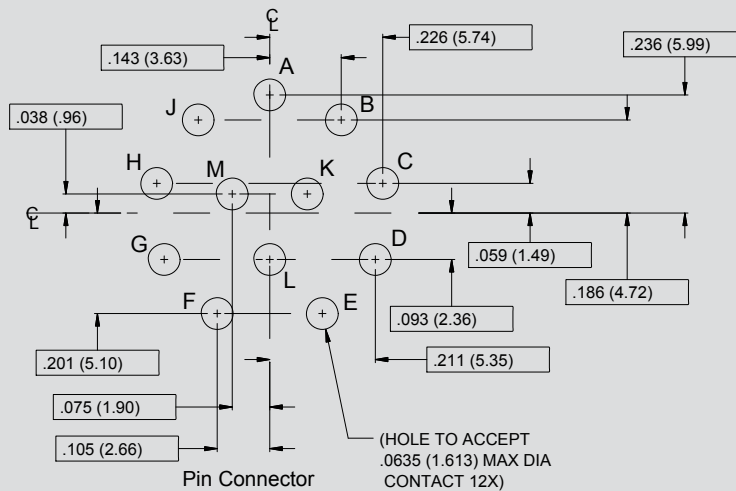
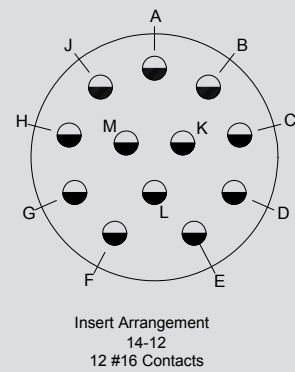
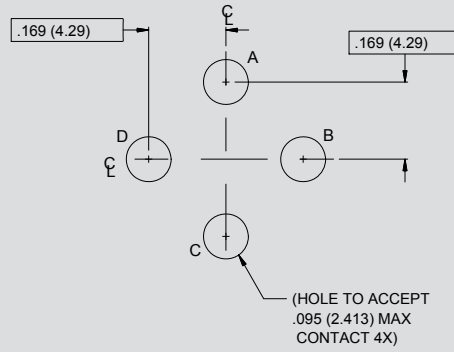
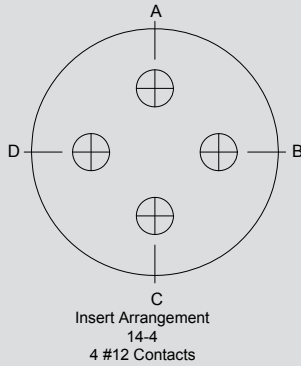
**Size 12 - Viewed from Connector Mounting Side, Pin Face**



I.D. NO.	X	Y
	In. mm.	In. mm.
1	.045 (1.14)	.197 (5.00)
2	.126 (3.20)	.158 (4.01)
3	.182 (4.62)	.088 (2.23)
4	.203 (5.15)	.000 (.000)
5	.182 (4.62)	-.088 (-2.23)
6	.126 (3.20)	-.158 (-4.01)
7	.045 (1.14)	-.197 (-5.00)
8	-.045 (-1.14)	-.197 (-5.00)
9	-.126 (-3.20)	-.158 (-4.01)
10	-.182 (-4.62)	-.088 (-2.23)
11	-.203 (-5.15)	.000 (.000)
12	-.182 (-4.62)	.088 (2.23)
13	-.126 (-3.20)	.158 (4.01)
14	-.045 (-1.14)	.197 (5.00)
15	.045 (1.14)	.107 (2.72)
16	.117 (2.97)	.026 (0.660)
17	.093 (2.36)	-.075 (-1.90)
18	.000 (.000)	-.120 (-3.05)
19	-.093 (-2.36)	-.075 (-1.90)
20	-.117 (-2.97)	.026 (0.660)
21	-.045 (-1.14)	.107 (2.72)
22	.000 (.000)	-.030 (-0.762)

**Hermetic/High-pressure or Environmental  
Connectors - PCB Footprints - Size 14**

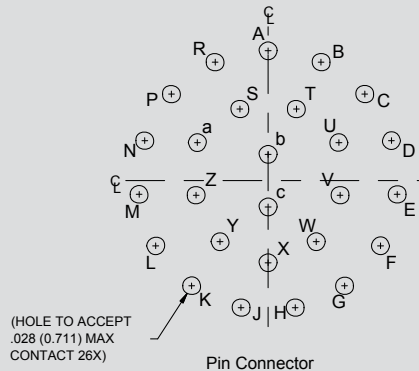
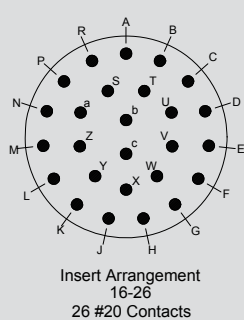
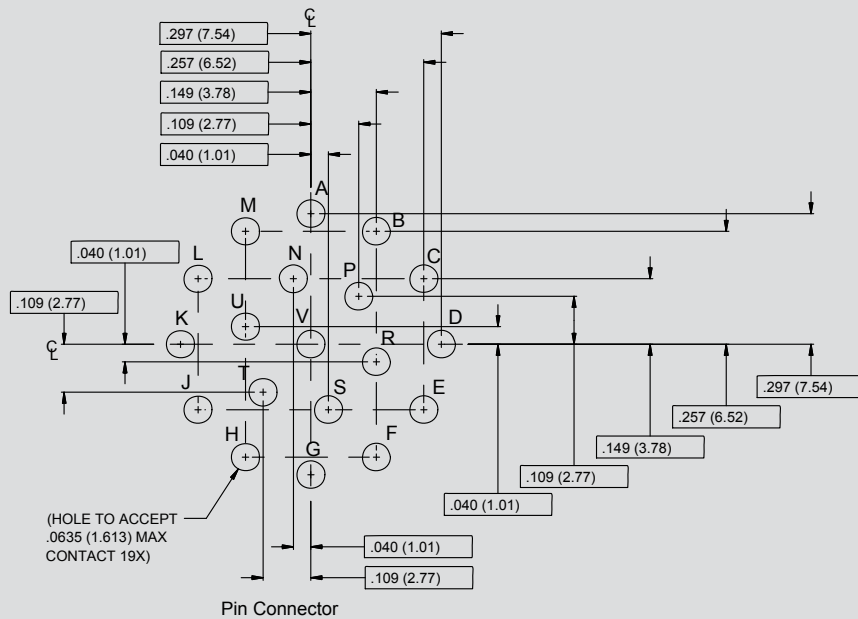
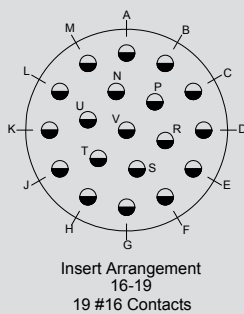
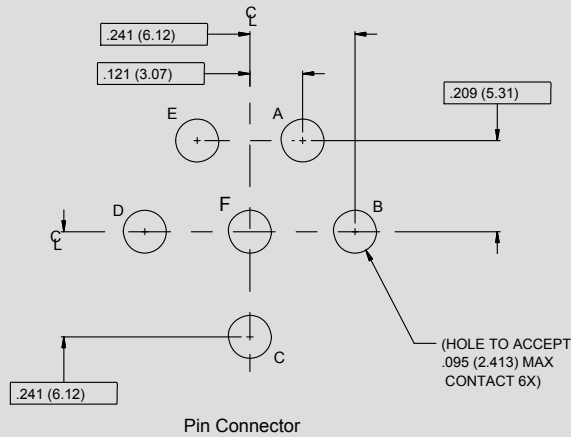
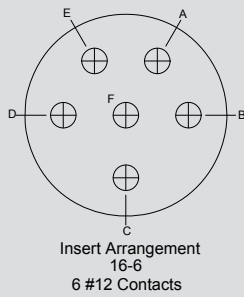
**Size 14 - Viewed from Connector Mounting Side, Pin Face**



I.D. NO.	X		Y		I.D. NO.	X		Y	
	In.	mm	In.	mm		In.	mm	In.	mm
1	.045	(1.14)	.262	(6.65)	20	.123	(3.12)	.119	(3.02)
2	.123	(3.12)	.217	(5.51)	21	.170	(4.31)	.040	(1.02)
3	.211	(5.35)	.160	(4.06)	22	.170	(4.31)	-.050	(-1.27)
4	.254	(6.45)	.080	(2.03)	23	.123	(3.12)	-.127	(-3.22)
5	.266	(6.75)	-.010	(-0.25)	24	.045	(1.14)	-.172	(-4.36)
6	.247	(6.27)	-.098	(-2.48)	25	-.045	(-1.14)	-.172	(-4.36)
7	.200	(5.08)	-.175	(-4.44)	26	-.123	(-3.12)	-.127	(-3.22)
8	.130	(3.30)	-.232	(-5.89)	27	-.170	(-4.31)	-.050	(-1.27)
9	.045	(1.14)	-.262	(-6.65)	28	-.170	(-4.31)	.040	(1.02)
10	-.045	(-1.14)	-.262	(-6.65)	29	-.123	(-3.12)	.119	(3.02)
11	-.130	(-3.30)	-.232	(-5.89)	30	-.045	(-1.14)	.172	(4.36)
12	-.200	(-5.08)	-.175	(-4.44)	31	.045	(1.14)	.074	(1.87)
13	-.247	(-6.27)	-.098	(-2.48)	32	.090	(2.28)	-.004	(-0.10)
14	-.266	(-6.75)	-.010	(-0.25)	33	.045	(1.14)	-.082	(-2.08)
15	-.254	(-6.45)	.080	(2.03)	34	-.045	(-1.14)	-.082	(-2.08)
16	-.211	(-5.35)	.160	(4.06)	35	-.090	(-2.28)	-.004	(-0.10)
17	-.123	(-3.12)	.217	(5.51)	36	-.045	(-1.14)	.074	(1.87)
18	-.045	(-1.14)	.262	(6.65)	37	.000	(0.00)	-.004	(-0.10)
19	.045	(1.14)	.172	(4.36)					



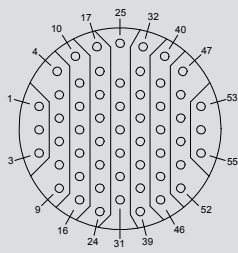
**Size 16 - Viewed from Connector Mounting Side, Pin Face**



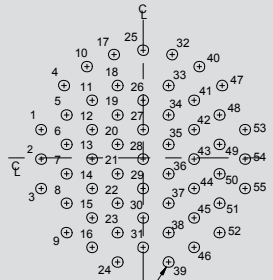
I.D. NO	X		Y		I.D. NO	X		Y	
	In.	mm	In.	mm		In.	mm	In.	mm
A	.000	(0.00)	.321	(81.53)	P	-.239	(-6.07)	.214	(5.43)
B	.131	(3.32)	.293	(7.44)	R	-.131	(-3.32)	.293	(7.44)
C	.239	(6.07)	.214	(5.43)	S	-.070	(-1.77)	.177	(4.49)
D	.305	(7.74)	.099	(2.51)	T	.070	(1.77)	.177	(4.49)
E	.319	(8.10)	-.034	(-0.86)	U	.175	(4.44)	.094	(2.38)
F	.278	(7.06)	-.161	(-4.08)	V	.178	(4.52)	-.036	(-0.91)
G	.189	(4.80)	-.260	(-6.60)	W	.119	(3.02)	-.151	(-3.83)
H	.067	(1.70)	-.314	(-7.97)	X	.000	(0.00)	-.203	(-5.15)
J	-.067	(-1.70)	-.314	(-7.97)	Y	-.119	(-3.02)	-.151	(-3.83)
K	-.189	(-4.80)	-.260	(-6.60)	Z	-.178	(-4.52)	-.036	(-0.91)
L	-.278	(-7.06)	-.161	(-4.08)	a	-.175	(-4.44)	.094	(2.38)
M	-.319	(-8.10)	-.034	(-0.86)	b	.000	(0.00)	.065	(1.65)
N	-.305	(-7.74)	.099	(2.51)	c	.000	(0.00)	-.065	(-1.65)

**Hermetic/High-pressure or Environmental  
Connectors - PCB Footprints - Size 16 and 18**

**Size 16 (continued) - Viewed from Connector Mounting Side, Pin Face**



**Insert Arrangement  
16-55  
55 #22 Contacts**

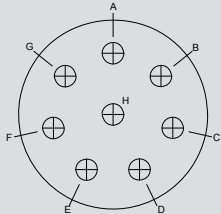


(HOLE TO ACCEPT  
.021 (0.533) MAX  
CONTACT 55X)

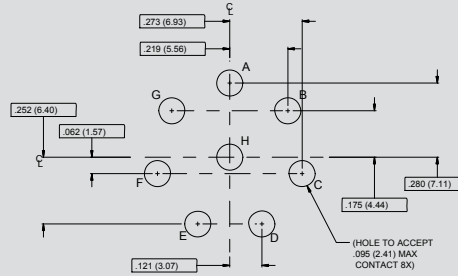
**Pin Connector**

I.D. NO	X		Y		I.D. NO	X		Y		I.D. NO	X		Y	
	In.	mm	In.	mm		In.	mm	In.	mm		In.	mm	In.	mm
1	-.312	(-7.92)	.086	(2.18)	20	-.078	(-1.98)	.041	(1.04)	39	.078	(1.98)	-.319	(-8.10)
2	-.312	(-7.92)	-.004	(-0.10)	21	-.078	(-1.98)	-.049	(-1.24)	40	.172	(4.36)	.279	(7.08)
3	-.312	(-7.92)	-.094	(-2.38)	22	-.078	(-1.98)	-.139	(-3.53)	41	.156	(3.96)	.176	(4.47)
4	-.242	(-6.14)	.221	(5.61)	23	-.078	(-1.98)	-.229	(-5.81)	42	.156	(3.96)	.086	(2.18)
5	-.234	(-5.94)	-.131	(-3.32)	24	-.078	(-1.98)	-.319	(-8.10)	43	.156	(3.96)	-.004	(-0.10)
6	-.234	(-5.94)	.041	(1.04)	25	.000	(0.00)	.329	(8.35)	44	.156	(3.96)	-.094	(-2.38)
7	-.234	(-5.94)	-.049	(-1.24)	26	.000	(0.00)	.176	(4.47)	45	.156	(3.96)	-.184	(-4.67)
8	-.234	(-5.94)	-.139	(-3.53)	27	.000	(0.00)	.086	(2.18)	46	.156	(3.96)	-.274	(-6.95)
9	-.234	(-5.94)	-.229	(-5.81)	28	.000	(0.00)	-.004	(-0.10)	47	.242	(6.14)	.221	(5.61)
10	-.172	(-4.36)	.279	(7.08)	29	.000	(0.00)	-.094	(-2.38)	48	.234	(5.94)	.131	(3.32)
11	-.156	(-3.96)	-.176	(-4.47)	30	.000	(0.00)	-.184	(-4.67)	49	.234	(5.94)	.041	(1.04)
12	-.156	(-3.96)	.086	(2.18)	31	.000	(0.00)	-.274	(-6.95)	50	.234	(5.94)	-.049	(-1.24)
13	-.156	(-3.96)	-.004	(-0.10)	32	.089	(2.26)	.316	(8.02)	51	.234	(5.94)	-.139	(-3.53)
14	-.156	(-3.96)	-.094	(-2.38)	33	.078	(1.98)	.221	(5.61)	52	.234	(5.94)	-.229	(-5.81)
15	-.156	(-3.96)	-.184	(-4.67)	34	.078	(1.98)	.131	(3.32)	53	.312	(7.92)	.086	(2.18)
16	-.156	(-3.96)	-.274	(-6.95)	35	.078	(1.98)	.041	(1.04)	54	.312	(7.92)	-.004	(-0.10)
17	-.089	(-2.26)	.316	(8.02)	36	.078	(1.98)	-.049	(-1.24)	55	.312	(7.92)	-.094	(-2.38)
18	-.078	(-1.98)	.221	(5.61)	37	.078	(1.98)	-.139	(-3.53)					
19	-.078	(-1.98)	.131	(3.32)	38	.078	(1.98)	-.229	(-5.81)					

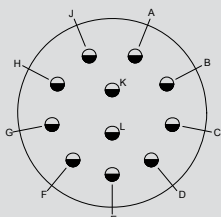
**Size 18 - Viewed from Connector Mounting Side, Pin Face**



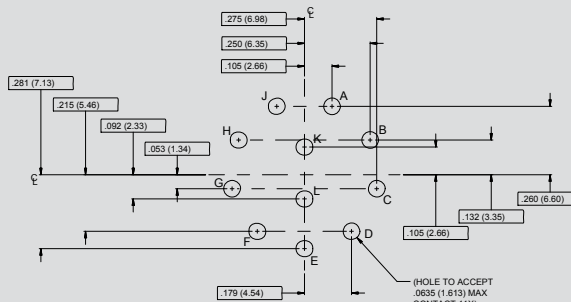
**Insert Arrangement  
18-8  
8 #12 Contacts**



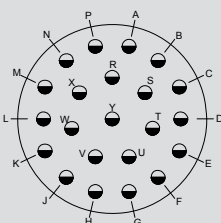
**Pin Connector**



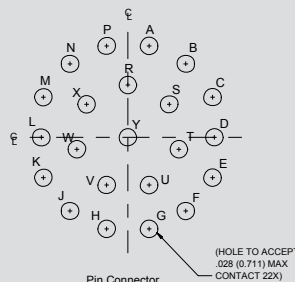
**Insert Arrangement  
18-11  
11 #16 Contacts**



**Pin Connector**



**Insert Arrangement  
18-22  
22 #16 Contacts**



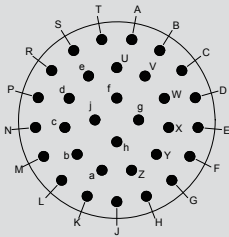
I.D. NO	X		Y		I.D. NO	X		Y	
	In.	mm	In.	mm		In.	mm	In.	mm
A	.077	(1.95)	.332	(8.43)	M	-.307	(-7.79)	.146	(3.70)
B	.210	(5.33)	.267	(6.78)	N	-.210	(-5.33)	.267	(6.78)
C	.307	(7.79)	.146	(3.70)	P	-.077	(-1.95)	.332	(8.43)
D	.341	(8.66)	.000	(0.00)	R	.000	(0.00)	.190	(4.82)
E	.307	(7.79)	-.146	(-3.70)	S	.150	(3.81)	.120	(3.04)
F	.210	(5.33)	-.267	(-6.78)	T	.185	(4.69)	-.043	(-1.09)
G	.077	(1.95)	-.332	(-8.43)	U	.077	(1.95)	-.173	(-4.39)
H	-.077	(-1.95)	-.332	(-8.43)	V	-.077	(-1.95)	-.173	(-4.39)
J	-.210	(-5.33)	-.267	(-6.78)	W	-.185	(-4.69)	-.043	(-1.09)
K	-.307	(-7.79)	-.146	(-3.70)	X	-.150	(-3.81)	.120	(3.04)
L	-.341	(-8.66)	.000	(0.00)	Y	.000	(0.00)	.000	(0.00)

**SUBSEA/SHALLOW WATER: GEO-MARINE®**

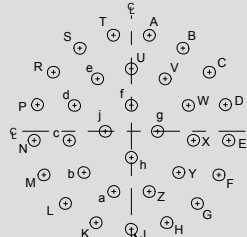


**Hermetic/High-pressure or Environmental  
Connectors - PCB Footprints - Size 18 and 20**

**Size 18 (continued) - Viewed from Connector Mounting Side, Pin Face**



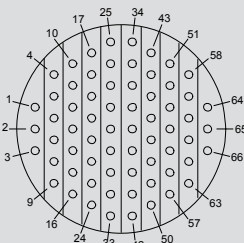
Insert Arrangement  
18-32  
32 #20 Contacts



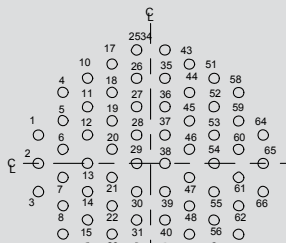
Pin Connector  
(HOLE TO ACCEPT  
.0435 (1.105) MAX  
CONTACT 32X)

I.D. NO	X		Y		I.D. NO	X		Y		I.D. NO	X		Y	
	In. mm	In. mm	In. mm	In. mm		In. mm	In. mm	In. mm	In. mm		In. mm	In. mm	In. mm	In. mm
A	.066 (1.67)	.353 (8.96)			N	-.357 (-9.06)	-.033 (-0.83)	a	-.065 (-1.65)	-.221 (-5.61)				
B	.189 (4.80)	.305 (7.74)			P	-.345 (-8.76)	.098 (2.48)	b	-.174 (-4.41)	-.151 (-3.83)				
C	.286 (7.26)	.217 (5.51)			R	-.286 (-7.26)	.217 (5.51)	c	-.228 (-5.79)	-.033 (-0.83)				
D	.345 (8.76)	.098 (2.48)			S	-.189 (-4.80)	.305 (7.74)	d	-.209 (-5.30)	.095 (2.41)				
E	.357 (9.06)	-.033 (-0.83)			T	-.066 (-1.67)	.353 (8.96)	e	-.124 (-3.14)	.193 (4.90)				
F	.321 (8.15)	-.160 (-4.06)			U	.000 (0.00)	.230 (5.84)	f	.000 (0.00)	.096 (2.43)				
G	.242 (6.14)	-.265 (-6.73)			V	.124 (3.14)	.193 (4.90)	g	.096 (2.43)	.000 (0.00)				
H	.130 (3.30)	-.335 (-8.50)			W	.209 (5.30)	.095 (2.41)	h	.000 (0.00)	-.096 (-2.43)				
J	.000 (0.00)	-.359 (-9.11)			X	.228 (5.79)	-.033 (-0.83)	i	-.096 (-2.43)	.000 (0.00)				
K	-.130 (-3.30)	-.335 (-8.50)			Y	.174 (4.41)	-.151 (-3.83)	j						
L	-.242 (-6.14)	-.265 (-6.73)			Z	.065 (1.65)	-.221 (-5.61)							
M	-.321 (-8.15)	-.160 (-4.06)												

**SUBSEA/SHALLOW WATER: GEO-MARINE®**



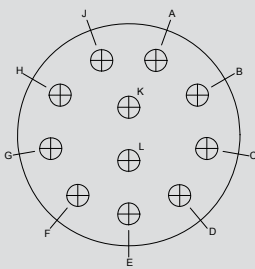
Insert Arrangement  
18-66  
66 #22 Contacts



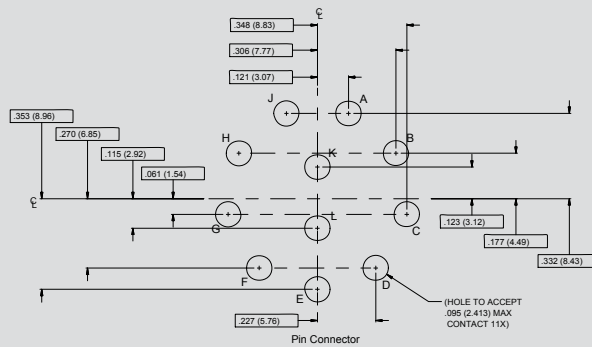
Pin Connector  
(HOLE TO ACCEPT  
.021 (0.533) MAX  
CONTACT 66X)

I.D. NO	X		Y		I.D. NO	X		Y		I.D. NO	X		Y	
	In. mm	In. mm	In. mm	In. mm		In. mm	In. mm	In. mm	In. mm		In. mm	In. mm	In. mm	In. mm
1	-.357 (-9.06)	.090 (2.28)			23	-.123 (-3.12)	-.225 (-5.71)	45	.123 (3.12)	.135 (3.42)				
2	-.357 (-9.06)	.000 (0.00)			24	-.123 (-3.12)	-.315 (-8.00)	46	.123 (3.12)	.045 (1.14)				
3	-.357 (-9.06)	-.090 (-2.28)			25	-.045 (-1.14)	.360 (9.14)	47	.123 (3.12)	-.045 (-1.14)				
4	-.279 (-7.08)	.135 (3.42)			26	-.045 (-1.14)	.270 (6.85)	48	.123 (3.12)	-.135 (-3.42)				
5	-.279 (-7.08)	.045 (1.14)			27	-.045 (-1.14)	.180 (4.57)	49	.123 (3.12)	-.225 (-5.71)				
6	-.279 (-7.08)	-.045 (-1.14)			28	-.045 (-1.14)	.090 (2.28)	50	.123 (3.12)	-.315 (-8.00)				
7	-.279 (-7.08)	-.045 (-1.14)			29	-.045 (-1.14)	.000 (0.00)	51	.201 (5.10)	.270 (6.85)				
8	-.279 (-7.08)	-.135 (-3.42)			30	-.045 (-1.14)	-.090 (-2.28)	52	.201 (5.10)	.180 (4.57)				
9	-.279 (-7.08)	-.225 (-5.71)			31	-.045 (-1.14)	-.180 (-4.57)	53	.201 (5.10)	.090 (2.28)				
10	-.201 (-5.10)	-.270 (-6.85)			32	-.045 (-1.14)	-.270 (-6.85)	54	.201 (5.10)	.000 (0.00)				
11	-.201 (-5.10)	.180 (4.57)			33	-.045 (-1.14)	-.360 (-9.14)	55	.201 (5.10)	-.090 (-2.28)				
12	-.201 (-5.10)	.090 (2.28)			34	.045 (1.14)	.360 (9.14)	56	.201 (5.10)	-.180 (-4.57)				
13	-.201 (-5.10)	.000 (0.00)			35	.045 (1.14)	.270 (6.85)	57	.201 (5.10)	-.270 (-6.85)				
14	-.201 (-5.10)	-.090 (-2.28)			36	.045 (1.14)	.180 (4.57)	58	.279 (7.08)	.225 (5.71)				
15	-.201 (-5.10)	-.180 (-4.57)			37	.045 (1.14)	.090 (2.28)	59	.279 (7.08)	.135 (3.42)				
16	-.201 (-5.10)	-.270 (-6.85)			38	.045 (1.14)	.000 (0.00)	60	.279 (7.08)	.045 (1.14)				
17	-.123 (-3.12)	-.315 (-8.00)			39	.045 (1.14)	-.090 (-2.28)	61	.279 (7.08)	-.045 (-1.14)				
18	-.123 (-3.12)	.225 (5.71)			40	.045 (1.14)	-.180 (-4.57)	62	.279 (7.08)	-.135 (-3.42)				
19	-.123 (-3.12)	.135 (3.42)			41	.045 (1.14)	-.270 (-6.85)	63	.279 (7.08)	-.225 (-5.71)				
20	-.123 (-3.12)	.045 (1.14)			42	.045 (1.14)	-.360 (-9.14)	64	.357 (9.06)	.090 (2.28)				
21	-.123 (-3.12)	-.045 (-1.14)			43	.123 (3.12)	.315 (8.00)	65	.357 (9.06)	.000 (0.00)				
22	-.123 (-3.12)	-.135 (-3.42)			44	.123 (3.12)	.225 (5.71)	66	.357 (9.06)	-.090 (-2.28)				

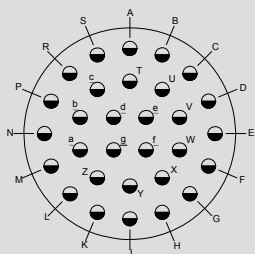
**Size 20 - Viewed from Connector Mounting Side, Pin Face**



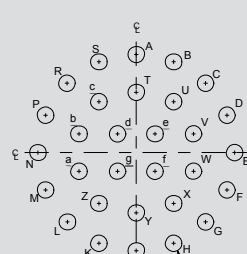
Insert Arrangement  
20-11  
11 #12 Contacts



Pin Connector



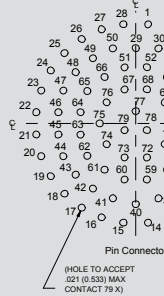
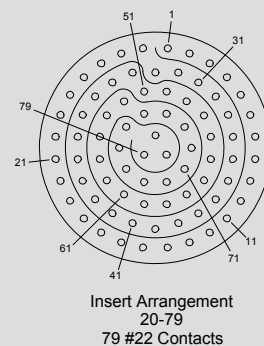
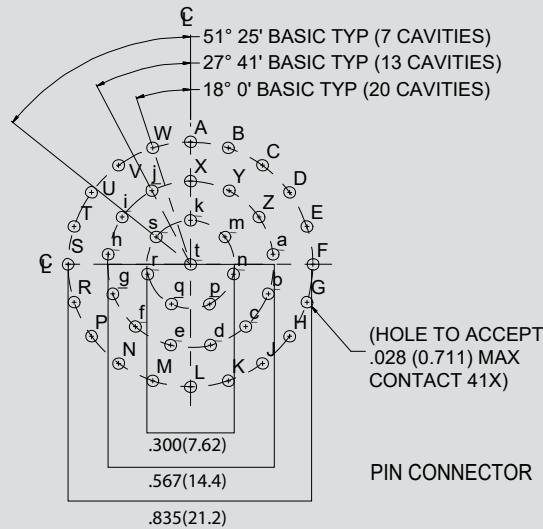
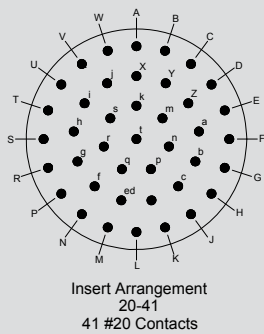
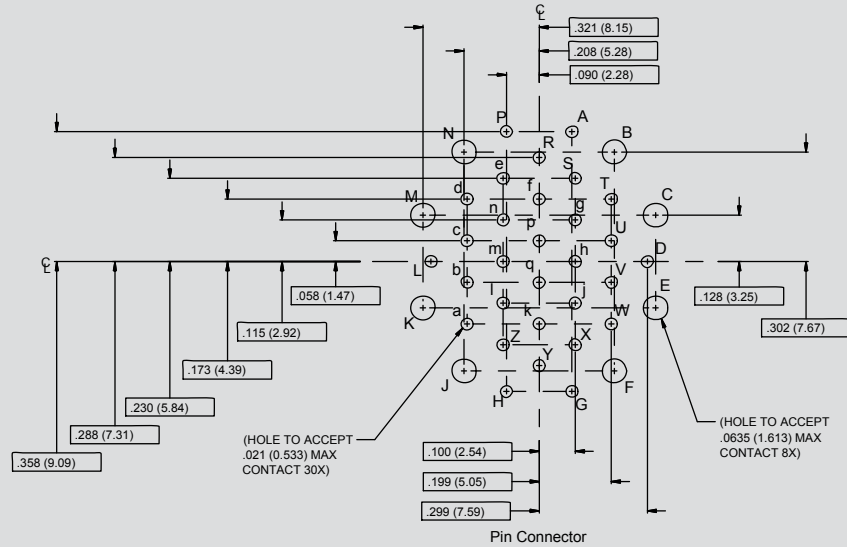
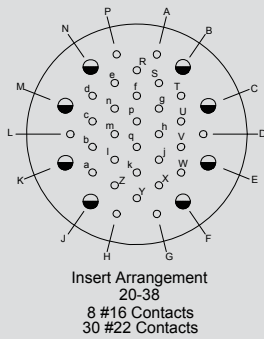
Insert Arrangement  
20-30  
30 #16 Contacts



Pin Connector  
(HOLE TO ACCEPT  
.028 (0.711) MAX  
CONTACT 30X)

I.D. NO	X		Y		I.D. NO	X		Y		I.D. NO	X		Y	
	In. mm	In. mm	In. mm	In. mm		In. mm	In. mm	In. mm	In. mm		In. mm	In. mm	In. mm	In. mm
A	.000 (0.00)	-.399 (-10.13)			L	-.282 (-7.16)	-.282 (-7.16)	X	.152 (3.86)	-.207 (-5.25)				
B	.152 (3.86)	.369 (9.37)			M	-.369 (-9.37)	-.152 (-3.86)	Y	.000 (0.00)	-.245 (-6.22)				
C	.282 (7.16)	.282 (7.16)			N	-.400 (-10.16)	.000 (0.00)	Z	-.152 (-3.86)	-.207 (-5.25)				
D	.369 (9.37)	-.152 (-3.86)			P	-.369 (-9.37)	.152 (3.86)	a	-.233 (-5.91)	-.076 (-1.93)				
E	.400 (10.16)	.000 (0.00)			R	-.282 (-7.16)	.282 (7.16)	b	-.233 (-5.91)	.076 (1.93)				
F	.369 (9.37)	-.152 (-3.86)			S	-.152 (-3.86)	.369 (9.37)	c	-.152 (-3.86)	.207 (5.25)				
G	.282 (7.16)	-.282 (-7.16)			T	.000 (0.00)	.245 (6.22)	d	-.076 (-1.93)	.076 (1.93)				
H	.152 (3.86)	-.369 (-9.37)			U	.152 (3.86)	.207 (5.25)	e	.076 (1.93)	.076 (1.93)				
J	.000 (0.00)	-.399 (-10.13)			V	.233 (5.91)	-.076 (-1.93)	f	.076 (1.93)	-.076 (-1.93)				
K	-.152 (-3.86)	-.369 (-9.37)			W	.233 (5.91)	-.076 (-1.93)	g	-.076 (-1.93)	-.076 (-1.93)				

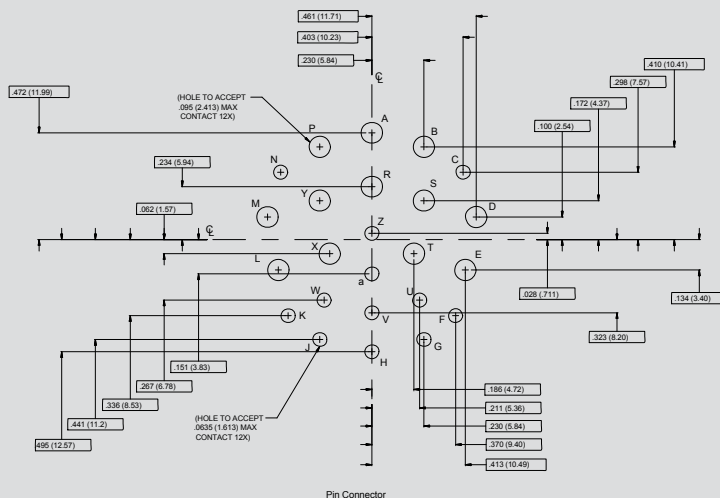
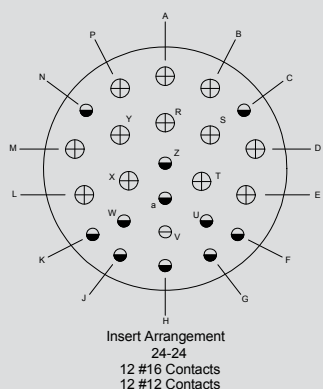
**Size 20 Viewed from Connector Mounting Side, Pin Face**



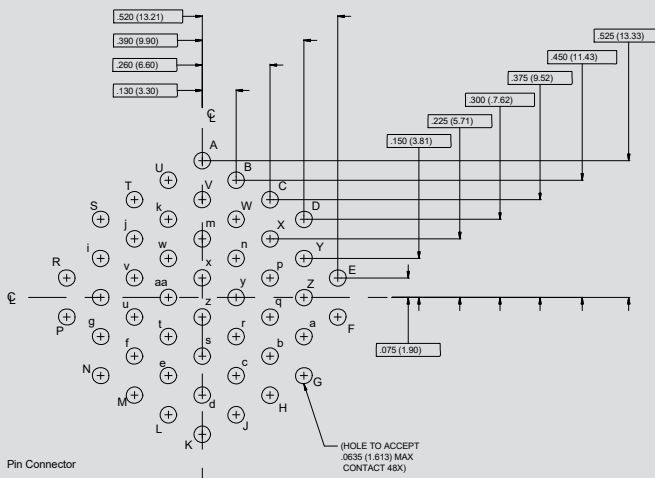
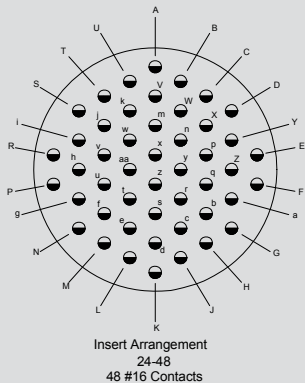
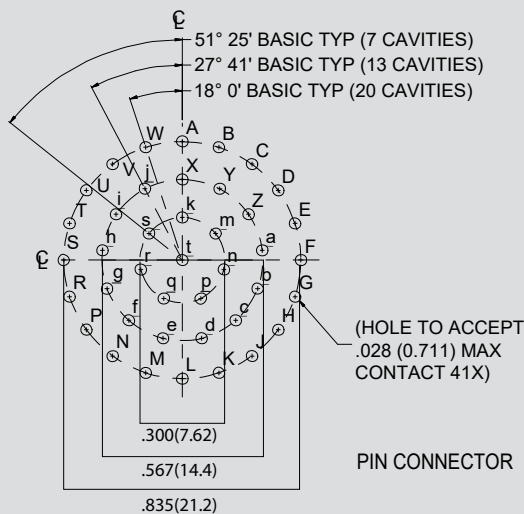
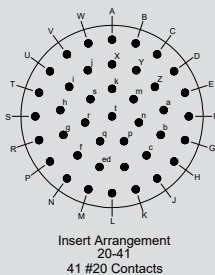
I.D. NO	X In. mm	Y In. mm	I.D. NO	X In. mm	Y In. mm	I.D. NO	X In. mm	Y In. mm	I.D. NO	X In. mm	Y In. mm
1	.053 (1.35)	-.426 (-10.82)	21	-.427 (-10.84)	-.048 (-1.22)	41	-.098 (-2.48)	-.322 (-8.18)	61	-.134 (-3.40)	-.199 (-5.05)
2	-.146 (-3.71)	.404 (10.26)	22	-.427 (-10.84)	.048 (1.22)	42	-.184 (-4.67)	-.280 (-7.11)	62	-.208 (-5.28)	-.139 (-3.53)
3	.232 (5.89)	-.362 (-9.19)	23	-.406 (-10.31)	.141 (3.58)	43	-.258 (-6.55)	-.220 (-5.59)	63	-.237 (-6.02)	-.048 (-1.22)
4	-.306 (-7.77)	-.302 (-7.67)	24	-.365 (-9.27)	.227 (5.76)	44	-.311 (-7.90)	-.141 (-3.58)	64	-.237 (-6.02)	.048 (1.22)
5	-.365 (-9.27)	.227 (5.76)	25	-.306 (-7.77)	-.302 (-7.67)	45	-.332 (-8.43)	-.048 (-1.22)	65	-.208 (-5.28)	-.139 (-3.53)
6	.406 (10.31)	.141 (3.58)	26	-.232 (-5.89)	-.362 (-9.19)	46	-.332 (-8.43)	.048 (1.22)	66	-.134 (-3.40)	.199 (5.05)
7	.427 (10.84)	-.048 (-1.22)	27	-.146 (-3.71)	.404 (10.26)	47	-.311 (-7.90)	.141 (3.58)	67	-.048 (-1.22)	.146 (3.71)
8	.427 (10.84)	-.048 (-1.22)	28	-.053 (-1.35)	.426 (10.82)	48	-.258 (-6.55)	.220 (5.59)	68	.048 (1.22)	.146 (3.71)
9	.406 (10.31)	-.141 (-3.58)	29	.000 (0.00)	.323 (8.20)	49	-.184 (-4.67)	.280 (7.11)	69	-.125 (-3.17)	.090 (2.28)
10	.365 (9.27)	-.227 (-5.76)	30	.098 (2.48)	.322 (8.18)	50	-.098 (-2.48)	.322 (8.18)	70	.155 (3.94)	.000 (0.00)
11	.306 (7.77)	-.302 (-7.67)	31	.184 (4.67)	.280 (7.11)	51	-.048 (-1.22)	.241 (6.12)	71	.125 (3.17)	-.090 (-2.28)
12	.232 (5.89)	-.362 (-9.19)	32	.258 (6.55)	.220 (5.59)	52	.048 (1.22)	.241 (6.12)	72	.048 (1.22)	-.146 (-3.71)
13	.146 (3.71)	-.404 (-10.26)	33	.311 (7.90)	-.141 (-3.58)	53	.134 (3.40)	.199 (5.05)	73	.048 (-1.22)	-.146 (-3.71)
14	.053 (1.35)	-.426 (-10.82)	34	.332 (8.43)	.048 (1.22)	54	.208 (5.28)	.139 (3.53)	74	-.125 (-3.17)	-.090 (-2.28)
15	-.053 (-1.35)	.426 (10.82)	35	.332 (8.43)	-.048 (-1.22)	55	.237 (6.02)	.048 (1.22)	75	-.155 (-3.94)	.000 (0.00)
16	-.146 (-3.71)	.404 (10.26)	36	.311 (7.90)	-.141 (-3.58)	56	.237 (6.02)	-.048 (-1.22)	76	-.125 (-3.17)	.090 (2.28)
17	-.232 (-5.89)	-.362 (-9.19)	37	.258 (6.55)	-.220 (-5.59)	57	.208 (5.28)	-.139 (-3.53)	77	.000 (0.00)	.053 (1.35)
18	-.306 (-7.77)	-.302 (-7.67)	38	.184 (4.67)	-.280 (-7.11)	58	.134 (3.40)	-.199 (-5.05)	78	.048 (1.22)	-.029 (-0.74)
19	-.365 (-9.27)	.227 (5.76)	39	.098 (2.48)	-.322 (-8.18)	59	.048 (1.22)	-.241 (-6.12)	79	-.048 (-1.22)	-.029 (-0.74)
20	-.406 (-10.31)	-.141 (-3.58)	40	.000 (0.00)	-.347 (-8.81)	60	-.048 (-1.22)	-.241 (-6.12)			



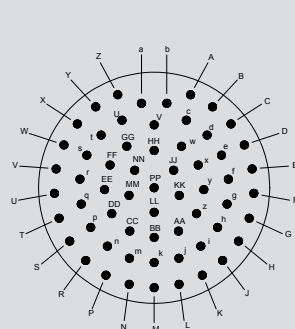
**Size 24 Viewed from Connector Mounting Side, Pin Face**



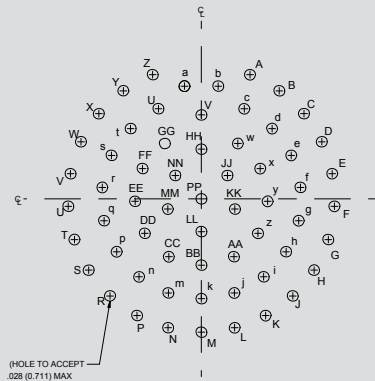
**SUBSEA/SHALLOW WATER: GEO-MARINE®**



**Size 24 Viewed from Connector Mounting Side, Pin Face**

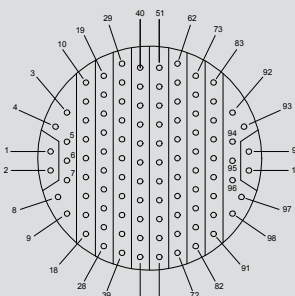


**Insert Arrangement  
24-61  
61 #20 Contacts**

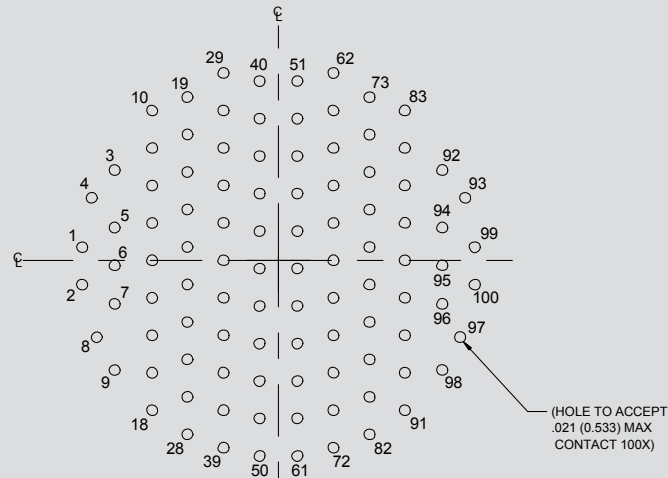


**Pin Connector**

I.D. NO.	X		Y		I.D. NO.	X		Y		I.D. NO.	X		Y	
	In. mm.	In. mm.	In. mm.	In. mm.		In. mm.	In. mm.	In. mm.	In. mm.		In. mm.	In. mm.	In. mm.	In. mm.
A	.196 (4.98)	.500 (12.7)	a	.068 (1.72)	.454 (11.53)	AA	.131 (3.33)	-.233 (-5.92)						
B	.314 (7.98)	.435 (11.05)	b	-.068 (-1.72)	.454 (11.53)	BB	.000 (0.000)	-.267 (-6.78)						
C	.413 (10.5)	.343 (8.71)	c	.173 (4.39)	.363 (9.22)	CC	-.131 (-3.33)	-.233 (-5.92)						
D	.485 (12.3)	.230 (5.84)	d	.285 (7.24)	.283 (7.19)	DD	-.228 (-5.79)	-.139 (-3.53)						
E	.527 (13.4)	.101 (2.57)	e	.362 (9.19)	.175 (4.44)	EE	-.267 (-6.78)	-.010 (-.254)						
F	.536 (13.6)	-.030 (-.762)	f	.399 (10.1)	.046 (1.17)	FF	-.237 (-6.02)	.122 (3.099)						
G	.511 (13.0)	-.164 (-4.165)	g	.392 (9.95)	-.088 (-2.24)	GG	-.147 (-3.73)	.122 (3.099)						
H	.454 (11.5)	-.287 (-7.29)	h	.341 (8.66)	-.213 (-5.41)	HH	.000 (0.000)	.200 (5.08)						
J	.368 (9.34)	-.391 (-9.93)	i	.251 (6.37)	-.314 (-7.97)	JJ	.105 (2.67)	.094 (2.39)						
K	.259 (6.58)	-.470 (-11.94)	j	.133 (3.38)	-.379 (-9.63)	KK	.135 (3.43)	-.041 (-1.04)						
L	.134 (3.40)	-.519 (-13.18)	k	.000 (0.000)	-.402 (-10.21)	LL	.000 (0.000)	-.132 (-3.35)						
M	.000 (0.000)	-.537 (-13.64)	m	-.133 (-3.38)	-.379 (-9.63)	MM	-.135 (-3.43)	-.041 (-1.04)						
N	-.134 (-3.40)	-.519 (-13.18)	n	-.251 (-6.37)	-.314 (-7.97)	NN	-.105 (-2.67)	.094 (2.39)						
P	-.259 (-6.58)	-.470 (-11.94)	p	-.341 (-8.66)	-.213 (-5.41)	PP	.000 (0.000)	.000 (0.000)						
R	-.368 (-9.34)	-.391 (-9.93)	q	-.392 (-9.95)	-.088 (-2.24)									
S	-.454 (-11.5)	-.287 (-7.29)	r	-.399 (-10.1)	.046 (1.17)									
T	-.511 (-13.0)	-.164 (-4.16)	s	-.362 (-9.19)	.175 (4.44)									
U	-.536 (-13.6)	-.030 (-.762)	t	-.285 (-7.24)	.283 (7.19)									
V	-.527 (-13.4)	.101 (2.56)	u	-.173 (-4.39)	.363 (9.22)									
W	-.485 (-12.3)	.230 (5.84)	v	.000 (0.000)	.338 (8.58)									
X	-.413 (-10.5)	.343 (8.71)	w	.147 (3.73)	.223 (5.66)									
Y	-.314 (-7.98)	.435 (11.05)	x	.237 (6.02)	.122 (3.099)									
Z	-.196 (-4.98)	.500 (12.7)	y	.267 (6.78)	-.010 (-.254)									
			z	.228 (5.79)	-.139 (-3.53)									



**Insert Arrangement  
24-100  
100 #22 Contacts**



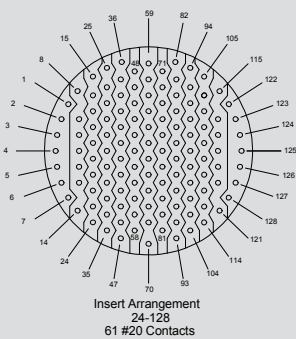
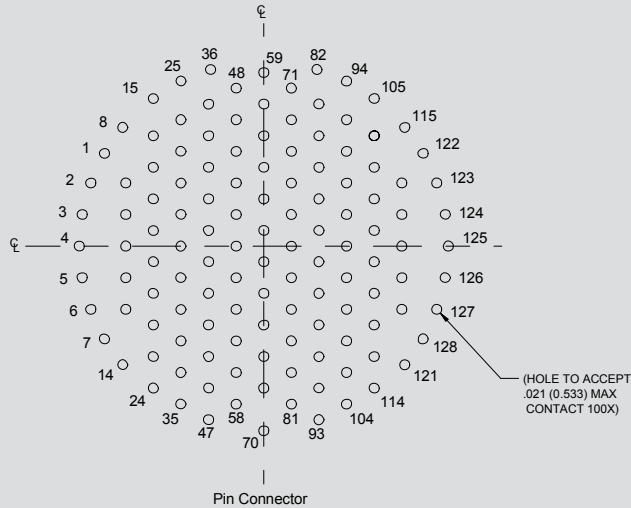
**Pin Connector**

I.D. NO.	X		Y		I.D. NO.	X		Y		I.D. NO.	X		Y	
	In. mm.	In. mm.	In. mm.	In. mm.		In. mm.	In. mm.	In. mm.	In. mm.		In. mm.	In. mm.	In. mm.	In. mm.
1	-.550 (-13.97)	.039 (.990)	26	.255 (-6.48)	-.278 (-7.06)	51	.053 (1.35)	.502 (12.75)	76	.255 (6.48)	.142 (3.607)			
2	-.550 (-13.97)	-.068 (-1.73)	27	.255 (-6.48)	-.383 (-9.73)	52	.053 (1.35)	.397 (10.08)	77	.255 (6.48)	.037 (.940)			
3	-.459 (-11.67)	.253 (6.42)	28	.255 (-6.48)	-.488 (-12.39)	53	.053 (1.35)	.292 (7.42)	78	.255 (6.48)	-.068 (-1.73)			
4	-.523 (-13.3)	.175 (4.44)	29	.154 (-3.91)	.525 (13.34)	54	.053 (1.35)	.187 (4.75)	79	.255 (6.48)	-.173 (-4.39)			
5	-.459 (-11.67)	.092 (2.34)	30	-.154 (-3.91)	.420 (10.67)	55	.053 (1.35)	.082 (2.083)	80	.255 (6.48)	-.278 (-7.06)			
6	-.459 (-11.67)	-.014 (-.355)	31	-.154 (-3.91)	.315 (8.00)	56	.053 (1.35)	-.023 (-.584)	81	.255 (6.48)	-.383 (-9.73)			
7	-.459 (-11.67)	-.122 (-3.099)	32	-.154 (-3.91)	.210 (5.33)	57	.053 (1.35)	-.128 (-3.25)	82	.255 (6.48)	-.488 (-12.39)			
8	-.509 (-12.9)	-.215 (-5.46)	33	-.154 (-3.91)	.105 (2.67)	58	.053 (1.35)	-.233 (-5.92)	83	.354 (8.99)	.420 (10.67)			
9	-.459 (-11.67)	-.307 (-7.80)	34	.154 (-3.91)	.000 (0.000)	59	.053 (1.35)	-.338 (-8.58)	84	.354 (8.99)	.315 (8.00)			
10	-.354 (-8.99)	.420 (10.67)	35	-.154 (-3.91)	-.105 (-2.67)	60	.053 (1.35)	-.443 (-11.25)	85	.354 (8.99)	.210 (5.33)			
11	-.354 (-8.99)	.315 (8.00)	36	-.154 (-3.91)	-.210 (-5.33)	61	.053 (1.35)	-.548 (-13.92)	86	.354 (8.99)	.105 (2.67)			
12	-.354 (-8.99)	.210 (5.33)	37	-.154 (-3.91)	-.315 (-8.00)	62	.154 (3.91)	.525 (13.34)	87	.354 (8.99)	.000 (0.000)			
13	-.354 (-8.99)	.105 (2.67)	38	-.154 (-3.91)	-.420 (-10.67)	63	.154 (3.91)	.420 (10.67)	88	.354 (8.99)	-.105 (-2.67)			
14	-.354 (-8.99)	.000 (0.000)	39	.154 (-3.91)	-.525 (-13.34)	64	.154 (3.91)	.315 (8.00)	89	.354 (8.99)	-.210 (-5.33)			
15	-.354 (-8.99)	-.105 (-2.67)	40	.053 (-1.35)	.502 (12.75)	65	.154 (3.91)	.210 (5.33)	90	.354 (8.99)	-.315 (-8.00)			
16	-.354 (-8.99)	-.210 (-5.33)	41	-.053 (-1.35)	.397 (10.08)	66	.154 (3.91)	.105 (2.67)	91	.354 (8.99)	-.420 (-10.67)			
17	-.354 (-8.99)	-.315 (-8.00)	42	-.053 (-1.35)	.292 (7.42)	67	.154 (3.91)	.000 (0.000)	92	.459 (11.66)	.253 (6.42)			
18	-.354 (-8.99)	-.420 (-10.67)	43	-.053 (-1.35)	.187 (4.75)	68	.154 (3.91)	-.105 (-2.67)	93	.523 (13.28)	.175 (4.44)			
19	-.255 (-6.47)	.457 (11.60)	44	-.053 (-1.35)	.082 (2.08)	69	.154 (3.91)	-.210 (-5.33)	94	.459 (11.66)	.092 (2.34)			
20	-.255 (-6.47)	.352 (8.94)	45	-.053 (-1.35)	-.023 (-.58)	70	.154 (3.91)	-.315 (-8.00)	95	.459 (11.66)	-.014 (-.356)			
21	-.255 (-6.47)	.247 (6.27)	46	-.053 (-1.35)	-.128 (-3.25)	71	.154 (3.91)	-.420 (-10.67)	96	.459 (11.66)	-.122 (-3.10)			
22	-.255 (-6.47)	.142 (3.61)	47	-.053 (-1.35)	-.233 (-5.92)	72	.154 (3.91)	-.525 (-13.34)	97	.509 (12.93)	-.215 (-5.46)			
23	-.255 (-6.47)	.037 (.94)	48	-.053 (-1.35)	-.338 (-8.58)	73	.255 (6.48)	.457 (11.60)	98	.459 (11.66)	-.307 (-7.80)			
24	-.255 (-6.47)	-.068 (-1.73)	49	-.053 (-1.35)	-.443 (-11.25)	74	.255 (6.48)	.352 (8.94)	99	.550 (13.97)	.039 (.991)			
25	-.255 (-6.47)	-.173 (-4.39)	50	-.053 (-1.35)	-.548 (-13.92)	75	.255 (6.48)	.247 (6.27)	100	.550 (13.97)	-.068 (-1.73)			

**SUBSEA/SHALLOW WATER: GEO-MARINE®**



**Size 24 Viewed from Connector Mounting Side, Pin Face**



I.D. NO.	X		Y		I.D. NO.	X		Y		I.D. NO.	X		Y	
	In. mm.	In. mm.	In. mm.	In. mm.		In. mm.	In. mm.	In. mm.	In. mm.		In. mm.	In. mm.	In. mm.	In. mm.
1	-.479 (-12.17)	.279 (7.09)	33	-.249 (-6.32)	-285 (-7.24)	65	.000 (.000)	-.047 (-1.19)	97	.249 (6.32)	.190 (4.82)			
2	-.520 (-13.21)	.190 (4.82)	34	-.249 (-6.32)	-.380 (-9.65)	66	.000 (.000)	-.142 (-3.607)	98	.249 (6.32)	.095 (2.41)			
3	-.546 (-13.87)	.095 (2.41)	35	-.249 (-6.32)	-.475 (-12.06)	67	.000 (.000)	-.237 (-6.02)	99	.249 (6.32)	.000 (.000)			
4	-.555 (-14.1)	.000 (.000)	36	-.160 (-4.06)	.531 (13.48)	68	.000 (.000)	-.332 (-8.43)	100	.249 (6.32)	.095 (-2.41)			
5	-.546 (-13.87)	-.095 (-2.41)	37	-.166 (-4.21)	.427 (10.84)	69	.000 (.000)	-.427 (-10.84)	101	.249 (6.32)	.190 (-4.82)			
6	-.520 (-13.2)	-.190 (-4.82)	38	-.166 (-4.21)	.332 (8.43)	70	.000 (.000)	-.555 (-14.1)	102	.249 (6.32)	.285 (-7.24)			
7	-.479 (-12.17)	-.279 (-7.09)	39	-.166 (-4.21)	.237 (6.02)	71	.083 (2.11)	.475 (12.06)	103	.249 (6.32)	.380 (-9.65)			
8	-.424 (-10.77)	.357 (9.07)	40	-.166 (-4.21)	.142 (3.607)	72	.083 (2.11)	.380 (9.65)	104	.249 (6.32)	.475 (-12.06)			
9	-.415 (-10.54)	.190 (4.82)	41	-.166 (-4.21)	.047 (1.19)	73	.083 (2.11)	.285 (7.24)	105	.332 (8.43)	.444 (11.27)			
10	-.415 (-10.54)	.095 (2.41)	42	-.166 (-4.21)	-.047 (-1.19)	74	.083 (2.11)	.190 (4.82)	106	.332 (8.43)	.332 (8.43)			
11	-.415 (-10.54)	.000 (.000)	43	-.166 (-4.21)	-.142 (-3.607)	75	.083 (2.11)	.095 (2.41)	107	.332 (8.43)	.237 (6.02)			
12	-.415 (-10.54)	-.095 (-2.41)	44	-.166 (-4.21)	-.237 (-6.02)	76	.083 (2.11)	.000 (.000)	108	.332 (8.43)	.142 (3.607)			
13	-.415 (-10.54)	-.190 (-4.82)	45	-.166 (-4.21)	-.332 (-8.43)	77	.083 (2.11)	-.095 (-2.41)	109	.332 (8.43)	.047 (1.19)			
14	-.424 (-10.77)	-.357 (-9.07)	46	-.166 (-4.21)	-.427 (-10.84)	78	.083 (2.11)	-.190 (-4.82)	110	.332 (8.43)	.047 (-1.19)			
15	-.332 (-8.43)	.444 (11.27)	47	-.166 (-4.21)	-.522 (-13.26)	79	.083 (2.11)	-.285 (-7.24)	111	.332 (8.43)	.142 (-3.607)			
16	-.332 (-8.43)	.332 (8.43)	48	-.083 (-2.11)	.475 (12.06)	80	.083 (2.11)	-.380 (-9.65)	112	.332 (8.43)	.237 (-6.02)			
17	-.332 (-8.43)	.237 (6.02)	49	-.083 (-2.11)	.380 (9.65)	81	.083 (2.11)	-.475 (-12.06)	113	.332 (8.43)	.332 (-8.43)			
18	-.332 (-8.43)	.142 (3.607)	50	-.083 (-2.11)	.285 (7.24)	82	.160 (4.06)	.531 (13.5)	114	.332 (8.43)	.427 (-10.84)			
19	-.332 (-8.43)	.047 (1.19)	51	-.083 (-2.11)	.190 (4.82)	83	.166 (4.21)	.427 (10.84)	115	.424 (10.77)	.357 (9.07)			
20	-.332 (-8.43)	-.047 (-1.19)	52	-.083 (-2.11)	.095 (2.41)	84	.166 (4.21)	.332 (8.43)	116	.415 (10.54)	.190 (4.82)			
21	-.332 (-8.43)	-.142 (-3.607)	53	-.083 (-2.11)	.000 (.000)	85	.166 (4.21)	.237 (6.02)	117	.415 (10.54)	.095 (2.41)			
22	-.332 (-8.43)	-.237 (-6.02)	54	-.083 (-2.11)	-.095 (-2.41)	86	.166 (4.21)	.142 (3.607)	118	.415 (10.54)	.000 (.000)			
23	-.332 (-8.43)	-.332 (-8.43)	55	-.083 (-2.11)	-.190 (-4.82)	87	.166 (4.21)	.047 (1.19)	119	.415 (10.54)	.095 (2.41)			
24	-.332 (-8.43)	-.427 (-10.84)	56	-.083 (-2.11)	-.285 (-7.24)	88	.166 (4.21)	-.047 (-1.19)	120	.415 (10.54)	.190 (-4.82)			
25	-.249 (-6.32)	.496 (12.6)	57	-.083 (-2.11)	-.380 (-9.65)	89	.166 (4.21)	-.142 (-3.607)	121	.424 (10.77)	.357 (-9.07)			
26	-.249 (-6.32)	.380 (9.65)	58	-.083 (-2.11)	-.475 (-12.06)	90	.166 (4.21)	-.237 (-6.02)	122	.479 (12.17)	.279 (7.08)			
27	-.249 (-6.32)	.285 (7.24)	59	.000 (.000)	.522 (13.26)	91	.166 (4.21)	-.332 (-8.43)	123	.520 (13.2)	.190 (4.82)			
28	-.249 (-6.32)	.190 (4.82)	60	.000 (.000)	.427 (10.84)	92	.166 (4.21)	-.427 (-10.84)	124	.546 (13.87)	.095 (2.41)			
29	-.249 (-6.32)	.095 (2.41)	61	.000 (.000)	.332 (8.43)	93	.166 (4.21)	-.522 (-13.26)	125	.555 (14.1)	.000 (.000)			
30	-.249 (-6.32)	.000 (.000)	62	.000 (.000)	.237 (6.02)	94	.249 (6.32)	.496 (12.6)	126	.546 (13.87)	.095 (-2.41)			
31	-.249 (-6.32)	-.095 (-2.41)	63	.000 (.000)	.142 (3.607)	95	.249 (6.32)	.380 (9.65)	127	.520 (13.2)	.190 (-4.82)			
32	-.249 (-6.32)	-.190 (-4.82)	64	.000 (.000)	.047 (1.19)	96	.249 (6.32)	.285 (7.24)	128	.479 (12.17)	.279 (-7.08)			