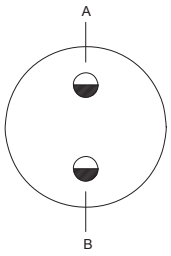
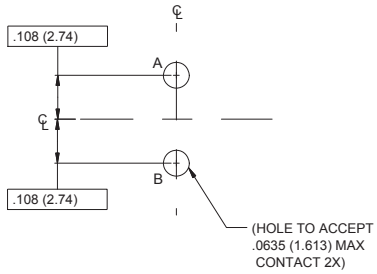
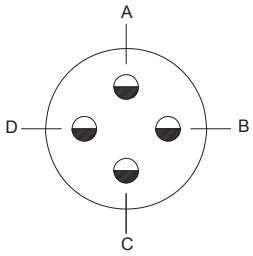
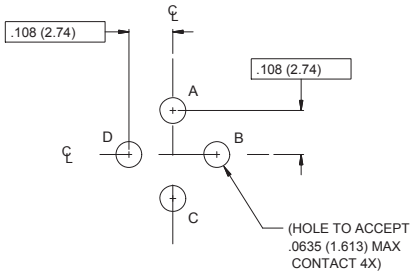
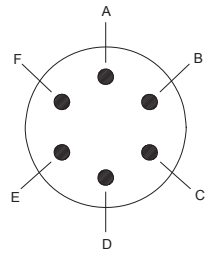
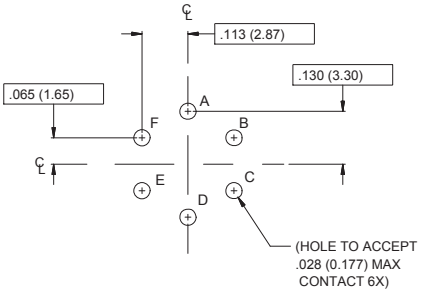
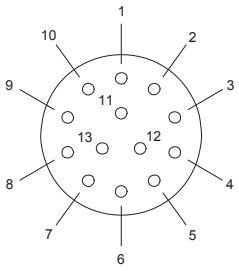
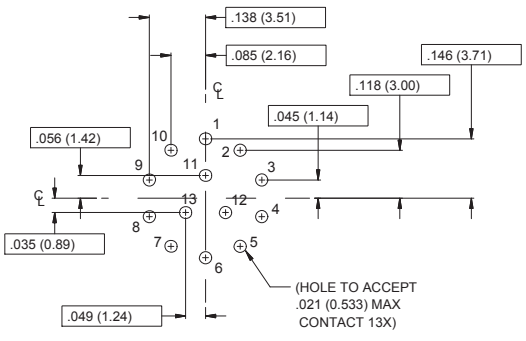
Series 22 Geo-Marine®
Harsh-Environment Connectors, Cables and Accessories
PCB Footprints

Geo-Marine® PCB Footprints: Size 10

Insert Arrangement	PCB Footprint
 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

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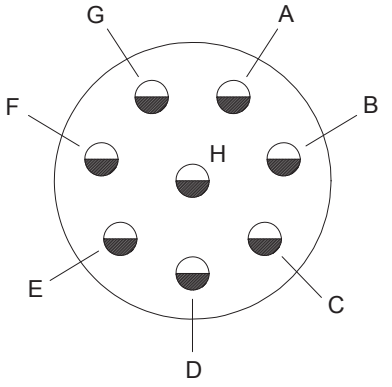
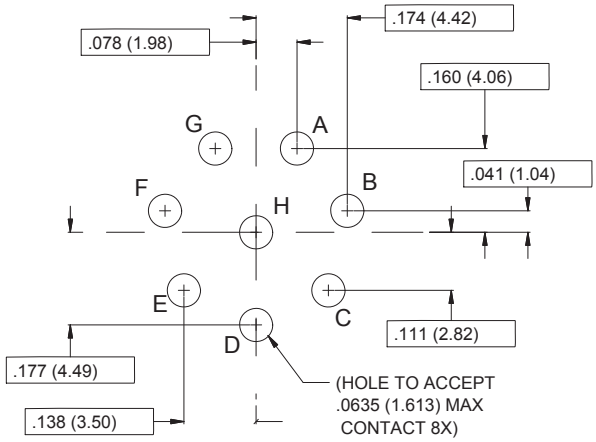
Geo-Marine® PCB Footprints: Size 12

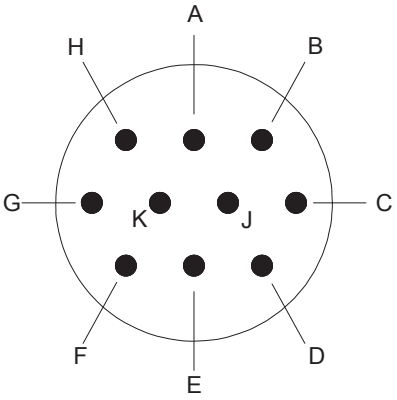
Insert Arrangement	PCB Footprint



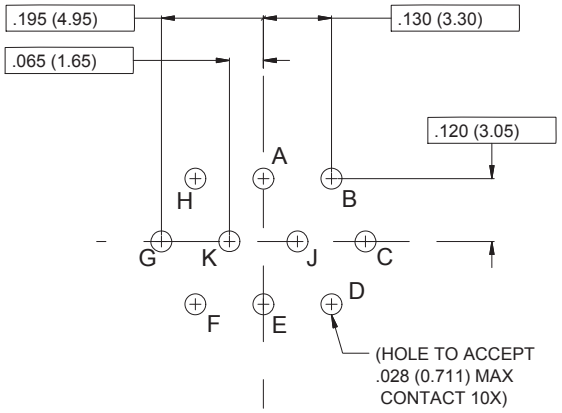
Insert Arrangement
12-08
8 #16 Contacts



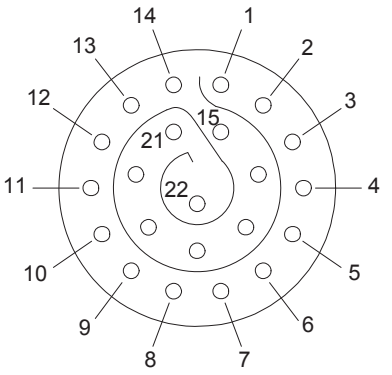
Pin Connector



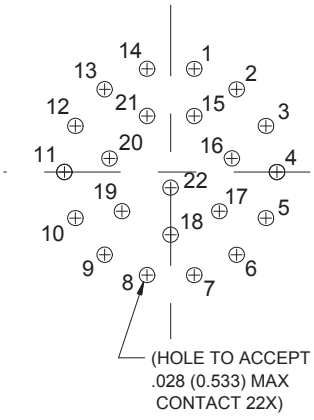
Insert Arrangement
12-10
10 #20 Contacts



Pin Connector



Insert Arrangement
12-22
22 #22 Contacts



Pin Connector

I.D. NO.	X In.	X mm.	Y In.	Y 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)

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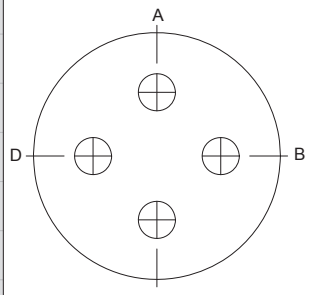
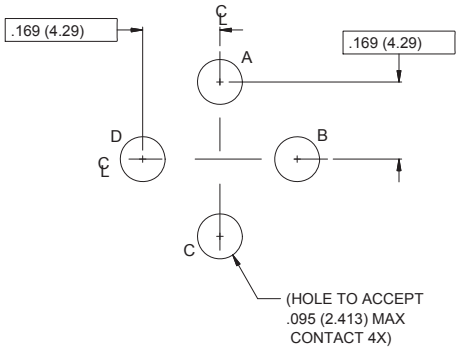
Series 22 Geo-Marine®
Harsh-Environment Connectors, Cables and Accessories
PCB Footprints

Geo-Marine® PCB Footprints: Size 14

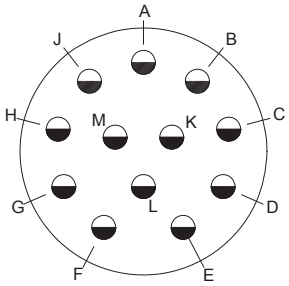
Insert Arrangement	PCB Footprint



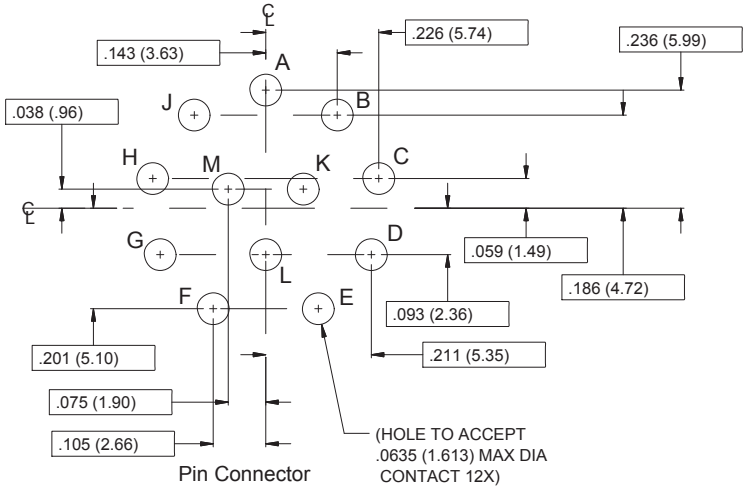
Insert Arrangement
14-4
4 #12 Contacts



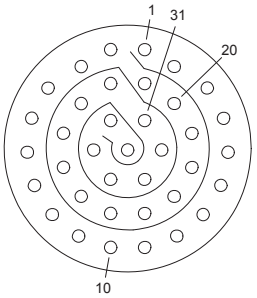
Pin Connector



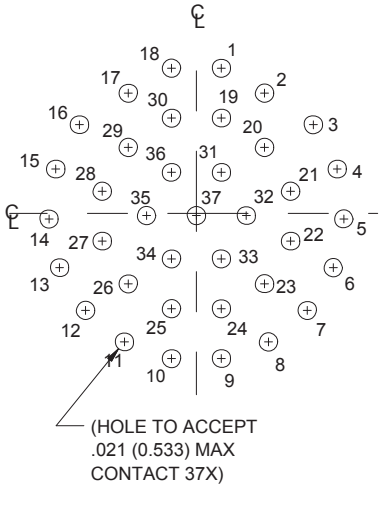
Insert Arrangement
14-12
12 #16 Contacts



Pin Connector



Insert Arrangement
14-37
37 #22 Contacts



Pin Connector

I.D. NO.	X In. mm	Y In. mm	I.D. NO.	X In. mm	Y 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)			

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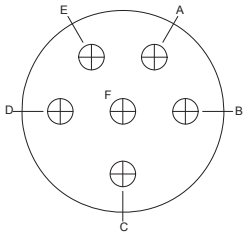
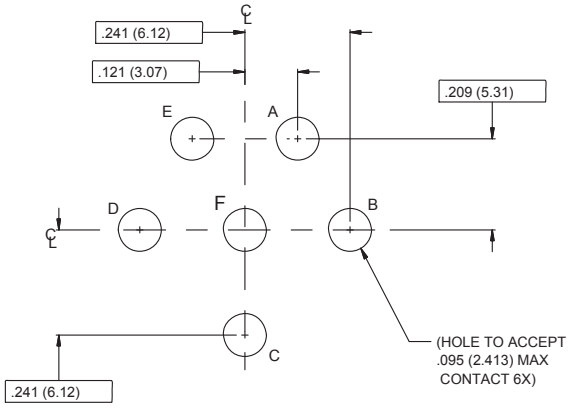
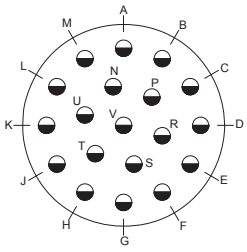
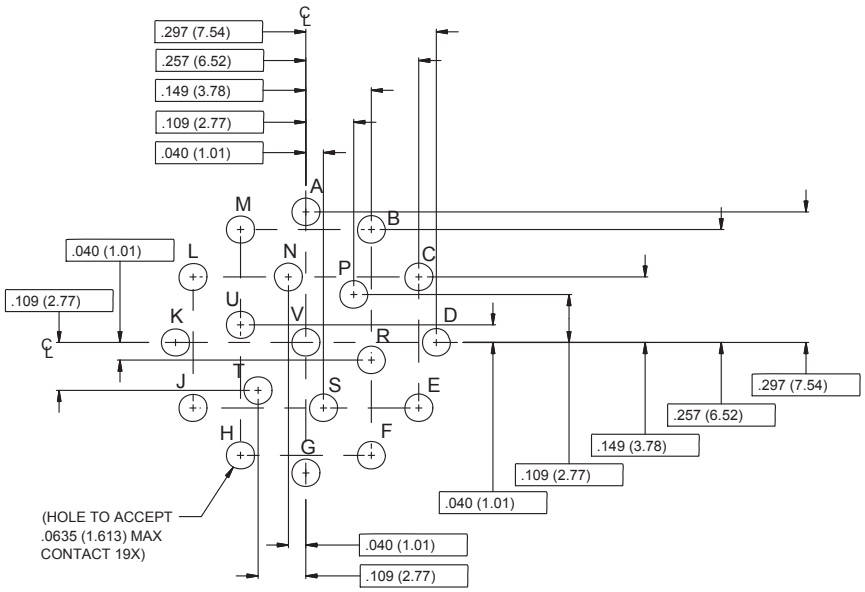
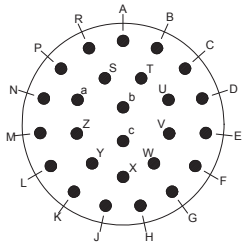
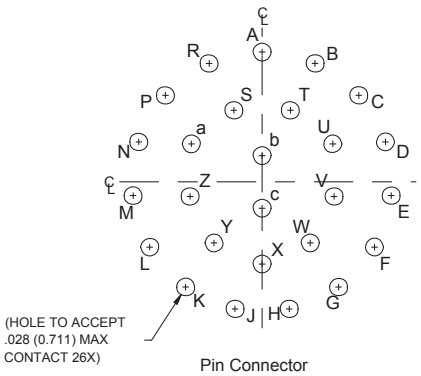
Geo-Marine® PCB Footprints: Size 16

Insert Arrangement	PCB Footprint
 Insert Arrangement 16-6 6 #12 Contacts	 Pin Connector
 Insert Arrangement 16-19 19 #16 Contacts	 Pin Connector
 Insert Arrangement 16-26 26 #20 Contacts	 Pin Connector

I.D. NO	X In.	X mm	Y In.	Y mm	I.D. NO	X In.	X mm	Y In.	Y 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)

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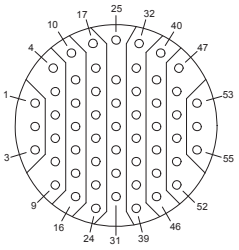
Series 22 Geo-Marine®
Harsh-Environment Connectors, Cables and Accessories
PCB Footprints

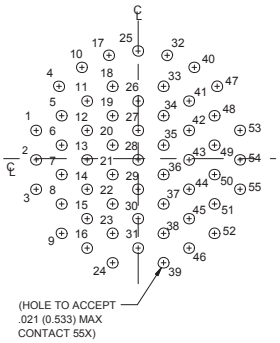
Geo-Marine® PCB Footprints: Size 16 (continued)

Insert Arrangement



Insert Arrangement
16-55
55 #22 Contacts

PCB Footprint

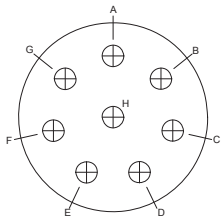


Pin Connector

I.D. NO	X In.	X mm	Y In.	Y mm	I.D. NO	X In.	X mm	Y In.	Y mm	I.D. NO	X In.	X mm	Y In.	Y 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)					

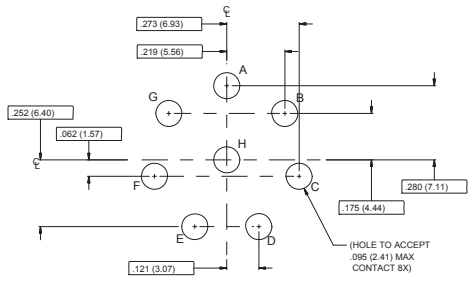
Geo-Marine® PCB Footprints: Size 18

Insert Arrangement

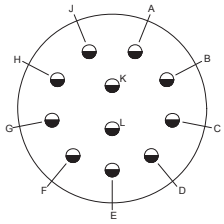


Insert Arrangement
18-8
8 #12 Contacts

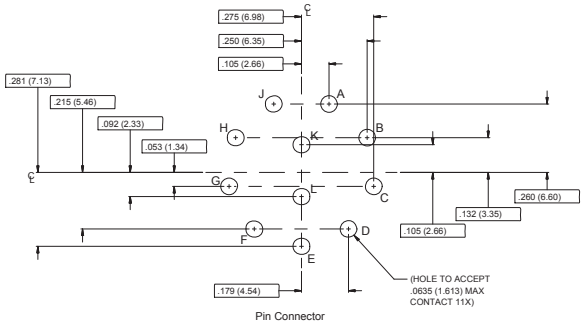
PCB Footprint



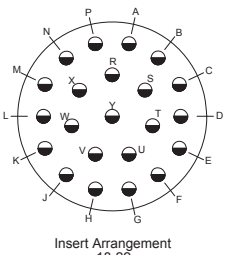
Pin Connector



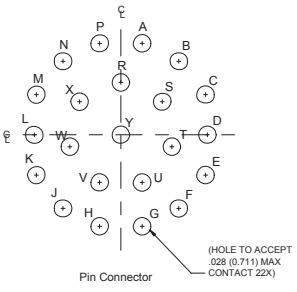
Insert Arrangement
18-11
11 #16 Contacts



Pin Connector



Insert Arrangement
18-22
22 #16 Contacts



Pin Connector

I.D. NO	X In.	X mm	Y In.	Y mm	I.D. NO	X In.	X mm	Y In.	Y 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)

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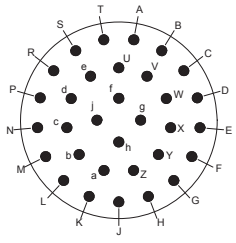
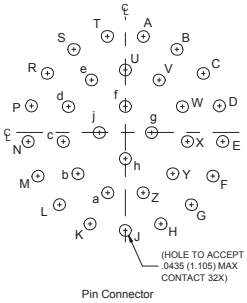
Geo-Marine® PCB Footprints: Size 18 (continued)

Insert Arrangement



Insert Arrangement
18-32
32 #20 Contacts

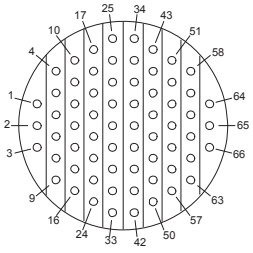
PCB Footprint



Pin Connector

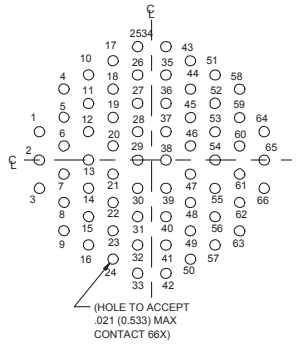
I.D. NO	X In. mm	Y In. mm	I.D. NO	X In. mm	Y In. mm	I.D. NO	X In. mm	Y In. mm
A	.066 (1.67)	.353 (8.96)	N	-.357 (-9.06)	-.033 (-0.83)	a	-.065 (-1.65)	-.221 (-5.61)
B	.189 (4.80)	.305 (7.74)	P	-.345 (-8.76)	.098 (2.48)	b	-.174 (-4.41)	-.151 (-3.83)
C	.286 (7.26)	.217 (5.51)	R	-.286 (-7.26)	.217 (5.51)	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)	j	-.096 (-2.43)	.000 (0.00)
K	-.130 (-3.30)	-.335 (-8.50)	Y	.174 (4.41)	-.151 (-3.83)			
L	-.242 (-6.14)	-.265 (-6.73)	Z	.065 (1.65)	-.221 (-5.61)			
M	-.321 (-8.15)	-.160 (-4.06)						

Insert Arrangement



Insert Arrangement
18-66
66 #22 Contacts

PCB Footprint

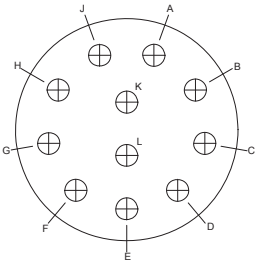


Pin Connector

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	-.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)	.225 (5.71)	26	-.045 (-1.14)	.270 (6.85)	48	.123 (3.12)	-.135 (-3.42)
5	-.279 (-7.08)	.135 (3.42)	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)

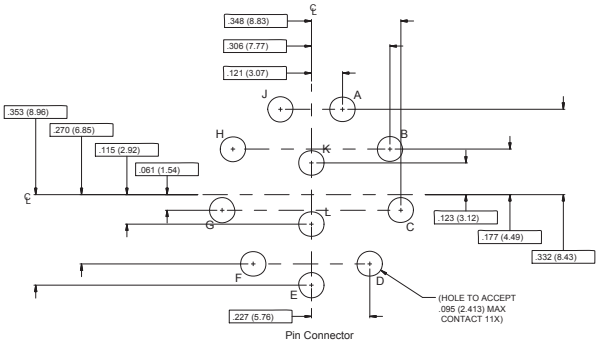
Geo-Marine® PCB Footprints: Size 20

Insert Arrangement

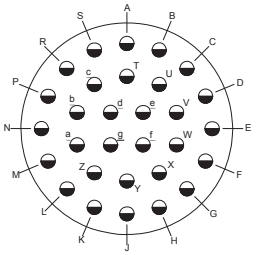


Insert Arrangement
20-11
11 #12 Contacts

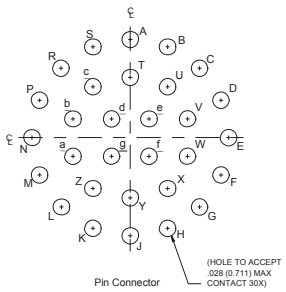
PCB Footprint



Pin Connector



Insert Arrangement
20-30
30 #16 Contacts



Pin Connector

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
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)

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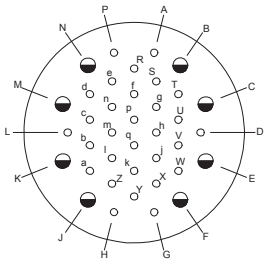
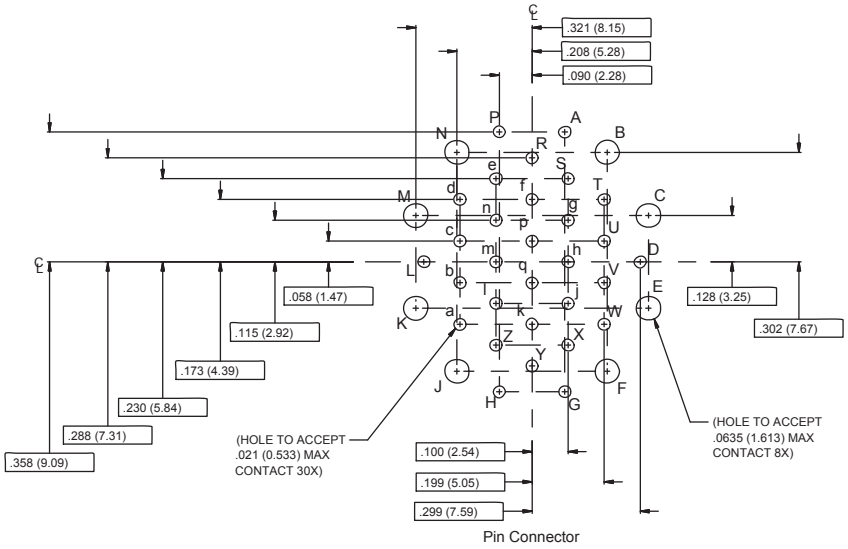
Series 22 Geo-Marine®
Harsh-Environment Connectors, Cables and Accessories
PCB Footprints

Geo-Marine® PCB Footprints: Size 20 (continued)

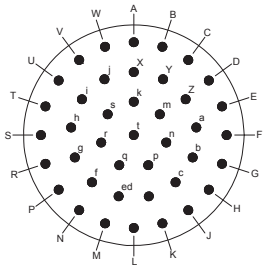
Insert Arrangement	PCB Footprint



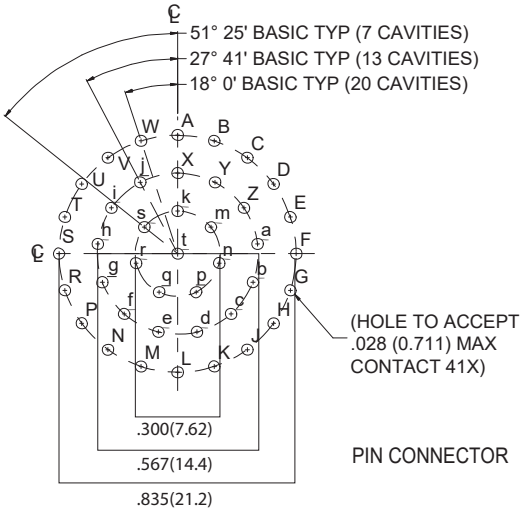
Insert Arrangement
20-38
8 #16 Contacts
30 #22 Contacts



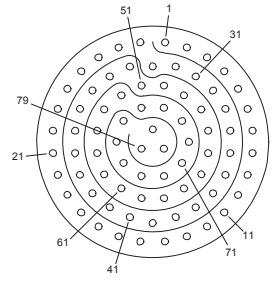
Pin Connector



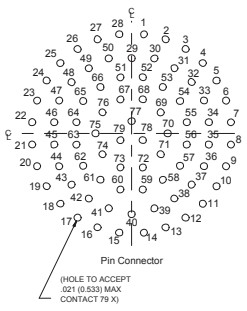
Insert Arrangement
20-41
41 #20 Contacts



PIN CONNECTOR



Insert Arrangement
20-79
79 #22 Contacts



I.D. NO	X In.	X mm	Y In.	Y mm	I.D. NO	X In.	X mm	Y In.	Y mm	I.D. NO	X In.	X mm	Y In.	Y mm	I.D. NO	X In.	X mm	Y In.	Y 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)					

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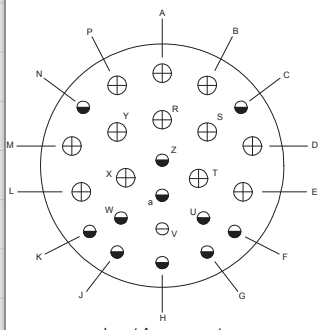
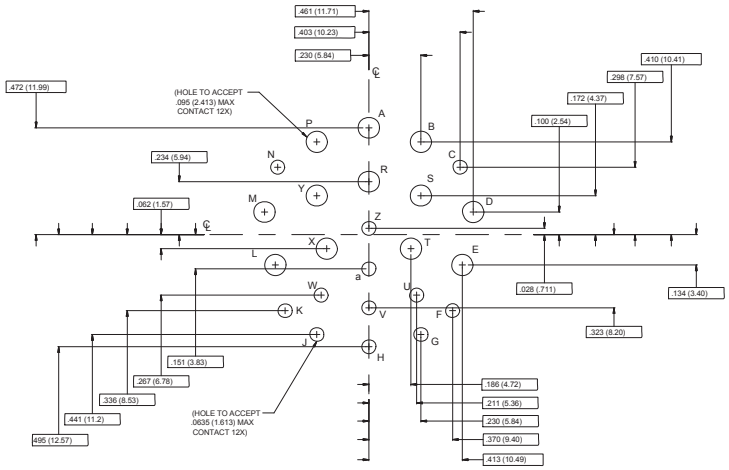
Geo-Marine® PCB Footprints: Size 24

Insert Arrangement

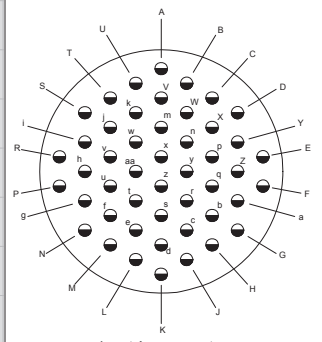


Insert Arrangement
24-24
12 #16 Contacts
12 #12 Contacts

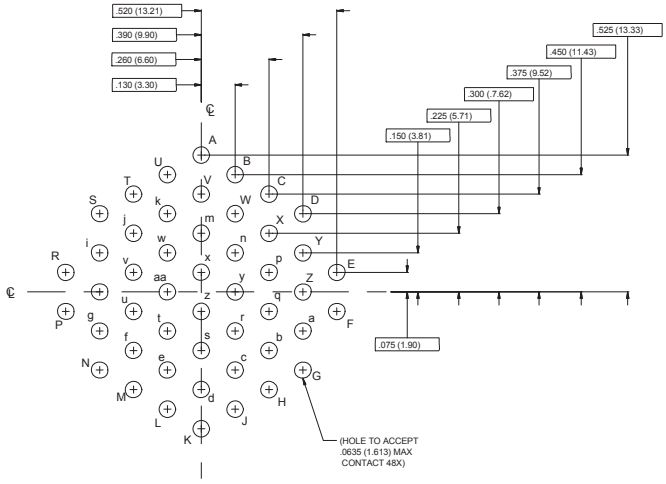
PCB Footprint



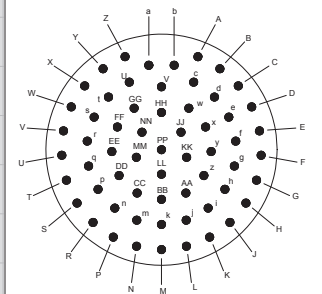
Pin Connector



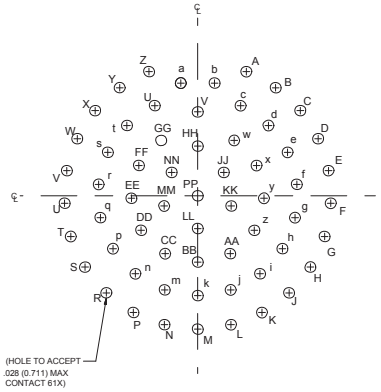
Insert Arrangement
24-48
48 #16 Contacts



Pin Connector



Insert Arrangement
24-61
61 #20 Contacts



Pin Connector

I.D. NO.	X In.	X mm.	Y In.	Y mm.
A	.196	(4.98)	.500	(12.7)
B	.314	(7.98)	.435	(11.05)
C	.413	(10.5)	.343	(8.71)
D	.485	(12.3)	.230	(5.84)
E	.527	(13.4)	.101	(2.57)
F	.536	(13.6)	- .030	(-.762)
G	.511	(13.0)	- .164	(-4.165)
H	.454	(11.5)	- .287	(-7.29)
J	.368	(9.34)	- .391	(-9.93)
K	.259	(6.58)	- .470	(-11.94)
L	.134	(3.40)	- .519	(-13.18)
M	.000	(.000)	- .537	(-13.64)
N	- .134	(-3.40)	- .519	(-13.18)
P	- .259	(-6.58)	- .470	(-11.94)
R	- .368	(-9.34)	- .391	(-9.93)
S	- .454	(-11.5)	- .287	(-7.29)
T	- .511	(-13.0)	- .164	(-4.16)
U	- .536	(-13.6)	- .030	(-.762)
V	- .527	(-13.4)	.101	(2.56)
W	- .485	(-12.3)	.230	(5.84)
X	- .413	(-10.5)	.343	(8.71)
Y	- .314	(-7.98)	.435	(11.05)
Z	- .196	(-4.98)	.500	(12.7)

I.D. NO.	X In.	X mm.	Y In.	Y mm.
a	.068	(1.72)	.454	(11.53)
b	- .068	(-1.72)	.454	(11.53)
c	.173	(4.39)	.363	(9.22)
d	.285	(7.24)	.283	(7.19)
e	.362	(9.19)	.175	(4.44)
f	.399	(10.1)	.046	(1.17)
g	.392	(9.95)	- .088	(-2.24)
h	.341	(8.66)	- .213	(-5.41)
i	.251	(6.37)	- .314	(-7.97)
j	.133	(3.38)	- .379	(-9.63)
k	.000	(.000)	- .402	(-10.21)
m	- .133	(-3.38)	- .379	(-9.63)
n	- .251	(-6.37)	- .314	(-7.97)
p	- .341	(-8.66)	- .213	(-5.41)
q	- .392	(-9.95)	- .088	(-2.24)
r	- .399	(-10.1)	.046	(1.17)
s	- .362	(-9.19)	.175	(4.44)
t	- .285	(-7.24)	.283	(7.19)
u	- .173	(-4.39)	.363	(9.22)
v	.000	(.000)	.338	(8.58)
w	.147	(3.73)	.223	(5.66)
x	.237	(6.02)	.122	(3.099)
y	.267	(6.78)	- .010	(-.254)
z	.228	(5.79)	- .139	(-3.53)

I.D. NO.	X In.	X mm.	Y In.	Y mm.
AA	.131	(3.33)	- .233	(-5.92)
BB	.000	(.000)	- .267	(-6.78)
CC	- .131	(-3.33)	- .233	(-5.92)
DD	- .228	(-5.79)	- .139	(-3.53)
EE	- .267	(-6.78)	- .010	(-.254)
FF	- .237	(-6.02)	.122	(3.099)
GG	- .147	(-3.73)	.223	(5.66)
HH	.000	(.000)	.200	(5.08)
JJ	.105	(2.67)	.094	(2.39)
KK	.135	(3.43)	- .041	(-1.04)
LL	.000	(.000)	- .132	(-3.35)
MM	- .135	(-3.43)	- .041	(-1.04)
NN	- .105	(-2.67)	.094	(2.39)
PP	.000	(.000)	.000	(.000)

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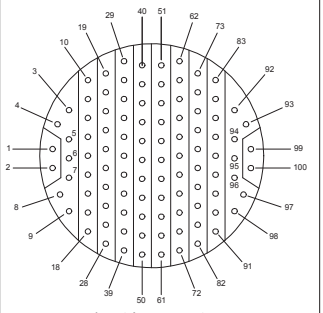
Series 22 Geo-Marine®
Harsh-Environment Connectors, Cables and Accessories
PCB Footprints

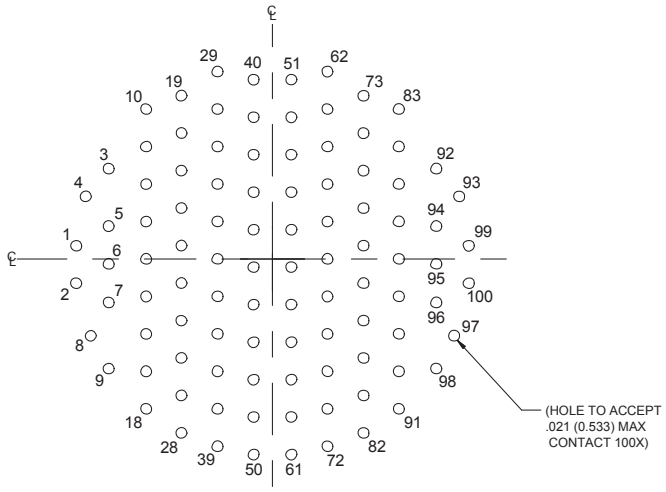
Geo-Marine® PCB Footprints: Size 24

Insert Arrangement



Insert Arrangement
24-100
100 #22 Contacts

PCB Footprint



Pin Connector

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	- .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 (.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 (.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 (.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 (.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)

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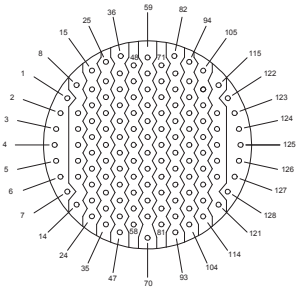
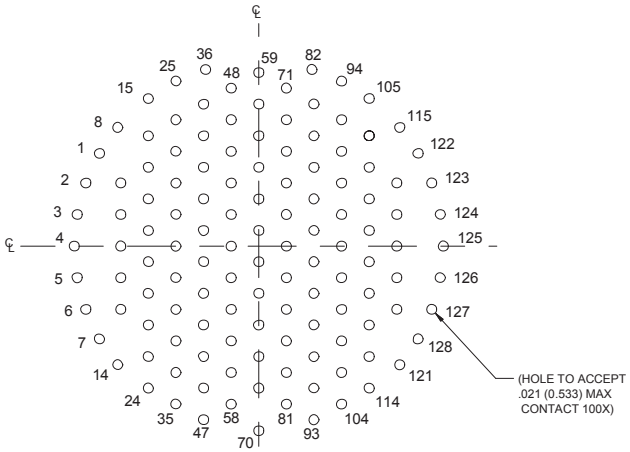
Geo-Marine® PCB Footprints: Size 24

Insert Arrangement



Insert Arrangement
24-128
61 #20 Contacts

PCB Footprint



Pin Connector

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

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