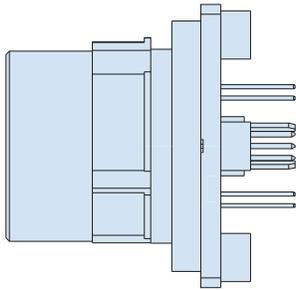


MIL-DTL-38999 Series IV Type
234-218 High-speed panel mount receptacles, PC tail

ENVIRONMENTAL CONNECTORS



HOW TO ORDER	
Sample Part Number	234-218 -00 NF 17 E - 2 P N -909CP
Basic Part Number	234-218
Connector Style	00 = Receptacle, wall-mount through holes HM = Receptacle, wall-mount w/metric helicoil HS = Receptacle, wall-mount w/standard helicoil CM = Receptacle, wall-mount with metric clinch nut CS = Receptacle, wall-mount with standard clinch nut
Material/Finish	(See Table I)
Shell Size	11, 13, 15, 17, 19, 21, 23, 25
Contact Type	(See Table II)
Ground Option	G = Common Ground - = None
Insert Arrangement	PER MIL-STD-1560
Insert Designator	P = Pin Contacts S = Socket Contact
Alternate Key Positions	A, B, C, D, K, L, M, R, N = Normal, U = Universal (Glenair equivalent only)
Optional Mod Code	909** = Supplies connector with contacts 1213 = Supplies connector with contacts per MIL-STD-1560

"BETTER-THAN-QPL" FEATURES AND BENEFITS

- Secure breech-lock mating connector meets D38999 shock and vibrate
- Glenair Signature Tin Zinc finish class is RoHS compliant and cadmium compatible
- Precision-machined key/keyway polarization for reliable mismatching protection
- Scoop-proof design prevents pin damage and short circuits
- Fully tooled for all MIL-STD-1560 insert arrangements
- Contact options include size #22D, #20, #16, and #12 (see High-Speed series for Size #8)
- 500 mating cycles exceeds MIL-DTL-38999 specification

TABLE I - MATERIAL/FINISH			
Equiv Class	Sym	Material	Finish
W	NF	Aluminum Alloy	Cad/O.D. over Electroless Nickel
G*	MA**		Electroless Nickel, Matte
T*	MT		Nickel-PTFE
F	ME		Electroless Nickel
AA	MN		MegaNickel
V	TZ		Tin-Zinc
Z*	ZR		Zinc Ni, Black (Tri-Valent CR)
K*	Z1		Stainless Steel
L*	ZL	Electrodeposited Nickel	

* = Glenair Equivalent Only

** = Connectors for space applications must be ordered with "MA" finish and mod code "-186T" to conform to the thermal vacuum outgassing requirements of class G.

TABLE II - CONTACT STYLE	
Sym	Description
C	Coax, 50 Ohm
C1	Coax, 75 Ohm
D	Differential Twinax
E*	El Ochito
P	Power
Q	Quadrx
T	Triax/Concentric Twinax
OMIT	Per Mil-Std-1560

MIL-DTL-38999 Series IV Type
234-218 High-speed panel mount receptacles, PC tail

TABLE III - OCHITO POSITIONS B = BLUE, R = RED, W = WHITE								
SYM	Contact 1	Contact 2	Contact 3	Contact 4	Contact 5	Contact 6	Contact 7	Contact 8
E	W	W	W	W	W	W	W	W
E2	B	W	W	W	W	W	W	W
E3	R	W	W	W	W	W	W	W
E4	B	B	W	W	W	W	W	W
E5	R	B	W	W	W	W	W	W
E6	R	R	W	W	W	W	W	W
E7	B	B	B	W	W	W	W	W
E8	R	B	B	W	W	W	W	W
E9	R	R	B	W	W	W	W	W
E10	R	R	R	W	W	W	W	W
E11	B	B	B	B	W	W	W	W
E12	R	B	B	B	W	W	W	W
E13	R	R	B	B	W	W	W	W
E14	R	R	R	B	W	W	W	W
E15	R	R	R	R	W	W	W	W
E16	B	B	B	B	B	W	W	W
E17	R	B	B	B	B	W	W	W
E18	R	R	B	B	B	W	W	W
E19	R	R	R	B	B	W	W	W
E20	R	R	R	R	B	W	W	W
E21	R	R	R	R	R	W	W	W
E22	B	B	B	B	B	B	W	W
E23	R	B	B	B	B	B	W	W
E24	R	R	B	B	B	B	W	W
E25	R	R	R	B	B	B	W	W
E26	R	R	R	R	B	B	W	W
E27	R	R	R	R	R	B	W	W
E28	R	R	R	R	R	R	W	W
E29	B	B	B	B	B	B	B	W
E30	R	B	B	B	B	B	B	W
E31	R	R	B	B	B	B	B	W
E32	R	R	R	B	B	B	B	W
E33	R	R	R	R	B	B	B	W
E34	R	R	R	R	R	B	B	W
E35	R	R	R	R	R	R	B	W
E36	R	R	R	R	R	R	R	W
E37	B	B	B	B	B	B	B	B
E38	R	B	B	B	B	B	B	B
E39	R	R	B	B	B	B	B	B
E40	R	R	R	B	B	B	B	B
E41	R	R	R	R	B	B	B	B
E42	R	R	R	R	R	B	B	B
E43	R	R	R	R	R	R	B	B
E44	R	R	R	R	R	R	R	B
E45	R	R	R	R	R	R	R	R

TABLE IV - EL OCHITO MATING CONTACT		
Mating Part Number	Protocols	
WHITE-PIN	858-003	Use for gb ethernet and 10gb ethernet protocols
WHITE-SKT	858-004	Use for gb ethernet and 10gb ethernet protocols
BLUE-PIN	858-028	Use for USB 3.0 (90 Ohm)
BLUE-SKT	858-029	Use for USB 3.0 (90 Ohm)
RED-PIN	858-030	Use for all high-bandwidth 100 ohm differential lines
RED-SKT	858-031	Use for all high-bandwidth 100 ohm differential lines

TABLE V - POLARIZING POSITIONS										
	N	A	B	C	D	K	L	M	R	U
X	110°	100°	90°	80°	70°	120°	120°	120°	120°	N/A
Y	250°	260°	270°	280°	290°	255°	265°	275°	285°	N/A

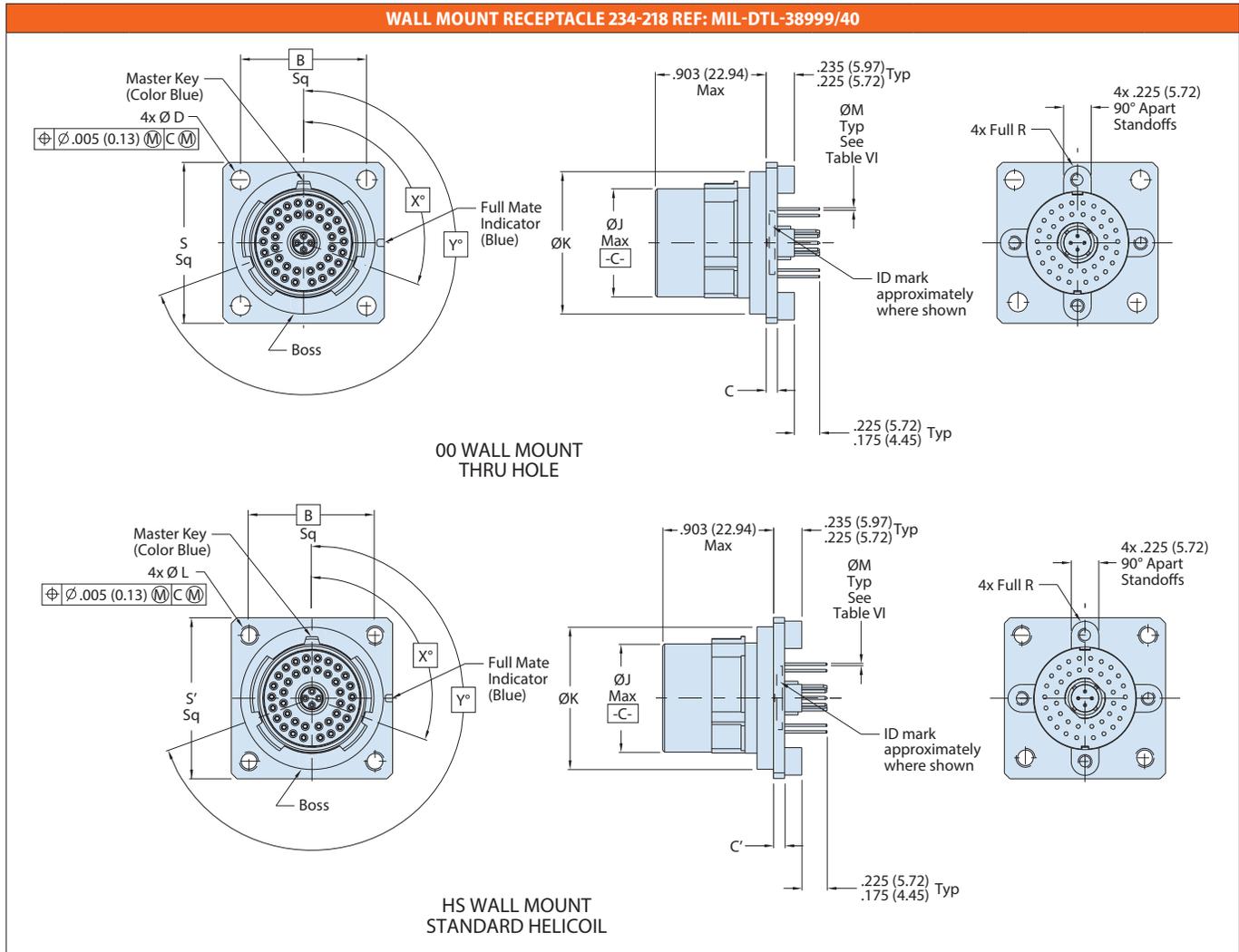
TABLE VI	
Contact Size	Pc Tail ØM
#23	.020 (0.51) .018 (0.46)
#22	.020 (0.51) .018 (0.46)
#20	.030 (0.76) .028 (0.71)
#16	.040 (1.02) .038 (0.97)
#12	.072 (1.83) .070 (1.78)

TABLE VII - PANEL CUTOUT				
Shell Size	Shell Size Code	ØKK Min	BB Bsc	ØDD
11	B	0.796 (20.22)	0.812 (20.62)	.133 (3.38)/.123 (3.12)
13	C	0.922 (23.42)	0.906 (23.01)	
15	D	1.047 (26.59)	0.969 (24.61)	
17	E	1.219 (30.96)	1.062 (26.97)	
19	F	1.297 (32.94)	1.156 (29.36)	
21	G	1.422 (36.12)	1.250 (31.75)	.159 (4.04)/.149 (3.78)
23	H	1.547 (39.29)	1.375 (34.93)	
25	J	1.672 (42.47)	1.500 (38.10)	

ENVIRONMENTAL CONNECTORS

MIL-DTL-38999 Series IV Type
234-218 High-speed panel mount receptacles, PC tail

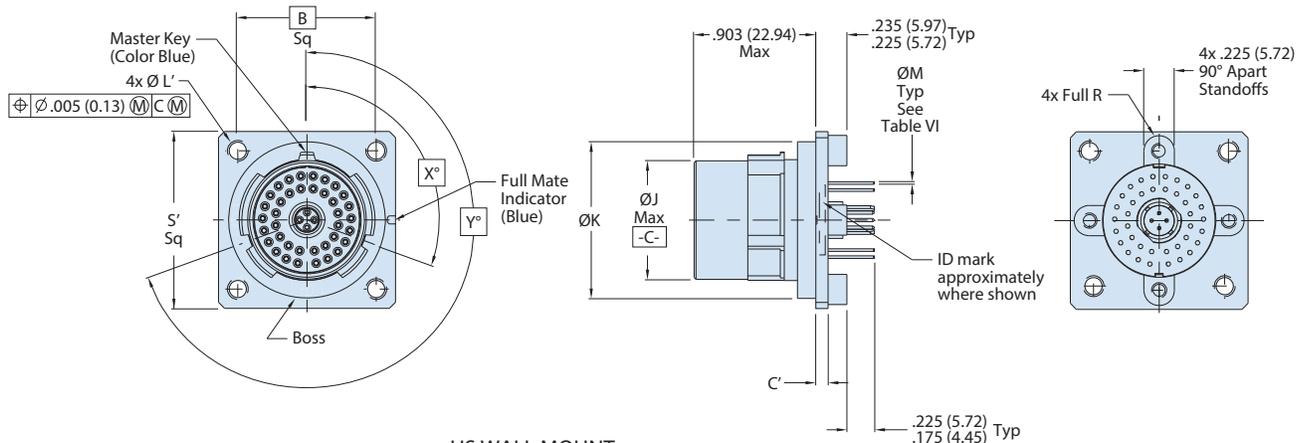
ENVIRONMENTAL CONNECTORS



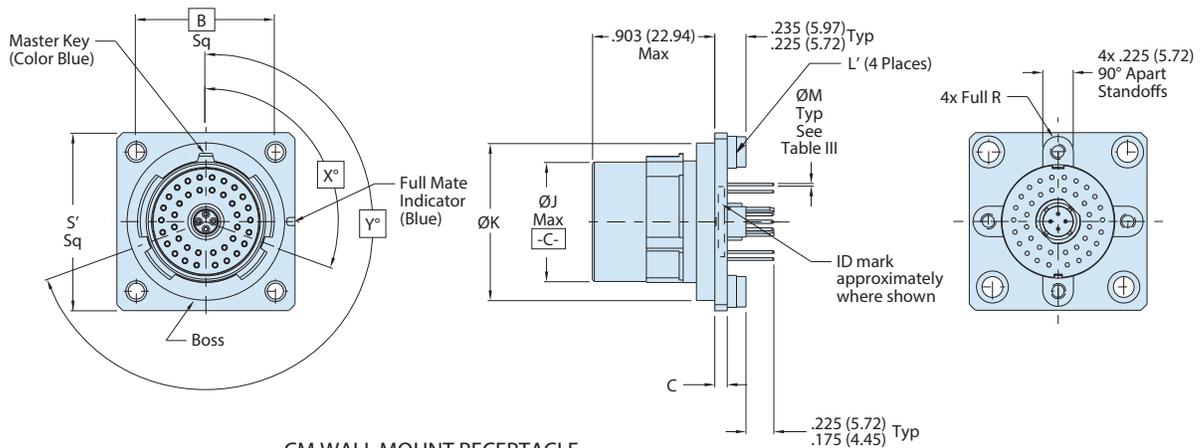
Shell Size	Shell Size Code	B Bsc	C	C'	Ø D	Ø J Max	Ø K	L Thread	L' Thread	S	S'	Ø T
11	B	.812 (20.62)	.102 (2.6) .083 (2.1)	.179 (4.5) .140 (3.6)	.138 (3.5) .122 (3.1)	.509 (12.93)	.793 (20.15) .778 (19.76)	.112-40 UNC	M3 X 0.5	1.051 (26.7) 1.008 (25.6)	1.202 (30.5) 1.162 (29.5)	.585 (14.9)
13	C	.906 (23.02)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	.634 (16.10)	.913 (23.35) .904 (22.96)			1.146 (29.1) 1.102 (28.0)	1.296 (32.8) 1.256 (31.9)	.704 (17.9)
15	D	.969 (24.61)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	.759 (19.28)	1.044 (26.52) 1.029 (26.13)			1.240 (31.5) 1.197 (30.4)	1.359 (34.5) 1.319 (33.5)	.861 (21.9)
17	E	1.062 (26.98)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	.885 (22.48)	1.170 (29.72) 1.155 (29.33)			1.335 (33.9) 1.291 (32.8)	1.452 (36.9) 1.412 (35.9)	.980 (24.9)
19	F	1.156 (29.36)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	1.009 (25.63)	1.294 (32.87) 1.279 (32.48)			1.461 (37.1) 1.417 (36.0)	1.546 (39.3) 1.506 (38.3)	1.097 (27.9)
21	G	1.250 (31.76)	.134 (3.4) .114 (2.9)		.138 (3.5) .122 (3.1)	1.134 (28.80)	1.419 (36.05) 1.404 (35.66)			1.583 (40.2) 1.539 (39.1)	1.640 (41.7) 1.600 (40.6)	1.215 (30.9)
23	H	1.375 (34.93)	.134 (3.4) .114 (2.9)	.190 (4.8) .170 (4.3)	.157 (4.0) .142 (3.6)	1.259 (31.98)	1.544 (39.22) 1.529 (38.83)	.138-32 UNC	M4 X 0.7	1.709 (43.4) 1.665 (42.3)	1.765 (44.8) 1.725 (43.8)	1.332 (33.8)
25	J	1.500 (38.10)	.134 (3.4) .114 (2.9)		.157 (4.0) .142 (3.6)	1.384 (35.15)	1.669 (42.40) 1.654 (42.01)			1.835 (46.6) 1.791 (45.5)	1.890 (48.0) 1.850 (47.0)	1.451 (36.9)

MIL-DTL-38999 Series IV Type
234-218 High-speed panel mount receptacles, PC tail

WALL MOUNT RECEPTACLE 234-218 REF: MIL-DTL-38999/40



HS WALL MOUNT
METRIC HELICOIL

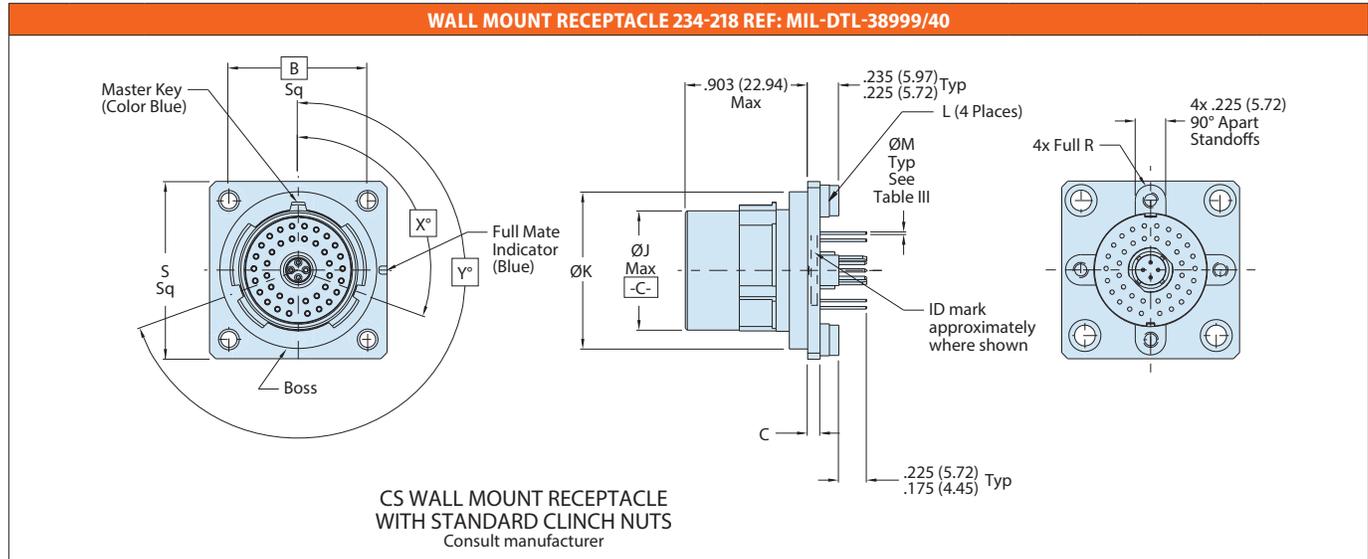


CM WALL MOUNT RECEPTACLE
WITH METRIC CLINCH NUTS
Consult manufacturer

Shell Size	Shell Size Code	B Bsc	C	C'	Ø D	Ø J Max	Ø K	L Thread	L' Thread	S	S'	Ø T
11	B	.812 (20.62)	.102 (2.6) .083 (2.1)	.179 (4.5) .140 (3.6)	.138 (3.5) .122 (3.1)	.509 (12.93)	.793 (20.15) .778 (19.76)	.112-40 UNC	M3 X 0.5	1.051 (26.7) 1.008 (25.6)	1.202 (30.5) 1.162 (29.5)	.585 (14.9)
13	C	.906 (23.02)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	.634 (16.10)	.913 (23.35) .904 (22.96)			1.146 (29.1) 1.102 (28.0)	1.296 (32.8) 1.256 (31.9)	.704 (17.9)
15	D	.969 (24.61)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	.759 (19.28)	1.044 (26.52) 1.029 (26.13)			1.240 (31.5) 1.197 (30.4)	1.359 (34.5) 1.319 (33.5)	.861 (21.9)
17	E	1.062 (26.98)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	.885 (22.48)	1.170 (29.72) 1.155 (29.33)			1.335 (33.9) 1.291 (32.8)	1.452 (36.9) 1.412 (35.9)	.980 (24.9)
19	F	1.156 (29.36)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	1.009 (25.63)	1.294 (32.87) 1.279 (32.48)			1.461 (37.1) 1.417 (36.0)	1.546 (39.3) 1.506 (38.3)	1.097 (27.9)
21	G	1.250 (31.76)	.134 (3.4) .114 (2.9)		.138 (3.5) .122 (3.1)	1.134 (28.80)	1.419 (36.05) 1.404 (35.66)			1.583 (40.2) 1.539 (39.1)	1.640 (41.7) 1.600 (40.6)	1.215 (30.9)
23	H	1.375 (34.93)	.134 (3.4) .114 (2.9)		.157 (4.0) .142 (3.6)	1.259 (31.98)	1.544 (39.22) 1.529 (38.83)			1.709 (43.4) 1.665 (42.3)	1.765 (44.8) 1.725 (43.8)	1.332 (33.8)
25	J	1.500 (38.10)	.134 (3.4) .114 (2.9)	.157 (4.0) .142 (3.6)	1.384 (35.15)	1.669 (42.40) 1.654 (42.01)	1.835 (46.6) 1.791 (45.5)	1.890 (48.0) 1.850 (47.0)	1.451 (36.9)			

MIL-DTL-38999 Series IV Type
234-218 High-speed panel mount receptacles, PC tail

ENVIRONMENTAL CONNECTORS



Shell Size	Shell Size Code	B Bsc	C	C'	Ø D	Ø J Max	Ø K	L Thread	L' Thread	S	S'	Ø T
11	B	.812 (20.62)	.102 (2.6) .083 (2.1)	.179 (4.5) .140 (3.6)	.138 (3.5) .122 (3.1)	.509 (12.93)	.793 (20.15) .778 (19.76)	.112-40 UNC	M3 X 0.5	1.051 (26.7) 1.008 (25.6)	1.202 (30.5) 1.162 (29.5)	.585 (14.9)
13	C	.906 (23.02)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	.634 (16.10)	.913 (23.35) .904 (22.96)			1.146 (29.1) 1.102 (28.0)	1.296 (32.8) 1.256 (31.9)	.704 (17.9)
15	D	.969 (24.61)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	.759 (19.28)	1.044 (26.52) 1.029 (26.13)			1.240 (31.5) 1.197 (30.4)	1.359 (34.5) 1.319 (33.5)	.861 (21.9)
17	E	1.062 (26.98)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	.885 (22.48)	1.170 (29.72) 1.155 (29.33)			1.335 (33.9) 1.291 (32.8)	1.452 (36.9) 1.412 (35.9)	.980 (24.9)
19	F	1.156 (29.36)	.102 (2.6) .083 (2.1)		.138 (3.5) .122 (3.1)	1.009 (25.63)	1.294 (32.87) 1.279 (32.48)			1.461 (37.1) 1.417 (36.0)	1.546 (39.3) 1.506 (38.3)	1.097 (27.9)
21	G	1.250 (31.76)	.134 (3.4) .114 (2.9)		.138 (3.5) .122 (3.1)	1.134 (28.80)	1.419 (36.05) 1.404 (35.66)			1.583 (40.2) 1.539 (39.1)	1.640 (41.7) 1.600 (40.6)	1.215 (30.9)
23	H	1.375 (34.93)	.134 (3.4) .114 (2.9)	.190 (4.8) .170 (4.3)	.157 (4.0) .142 (3.6)	1.259 (31.98)	1.544 (39.22) 1.529 (38.83)	.138-32 UNC	M4 X 0.7	1.709 (43.4) 1.665 (42.3)	1.765 (44.8) 1.725 (43.8)	1.332 (33.8)
25	J	1.500 (38.10)	.134 (3.4) .114 (2.9)		.157 (4.0) .142 (3.6)	1.384 (35.15)	1.669 (42.40) 1.654 (42.01)			1.835 (46.6) 1.791 (45.5)	1.890 (48.0) 1.850 (47.0)	1.451 (36.9)

MIL-DTL-38999 Series IV Type
234-218 High-speed panel mount receptacles, PC tail insert arrangements

FIGURE 1 - INSERT ARRANGEMENTS

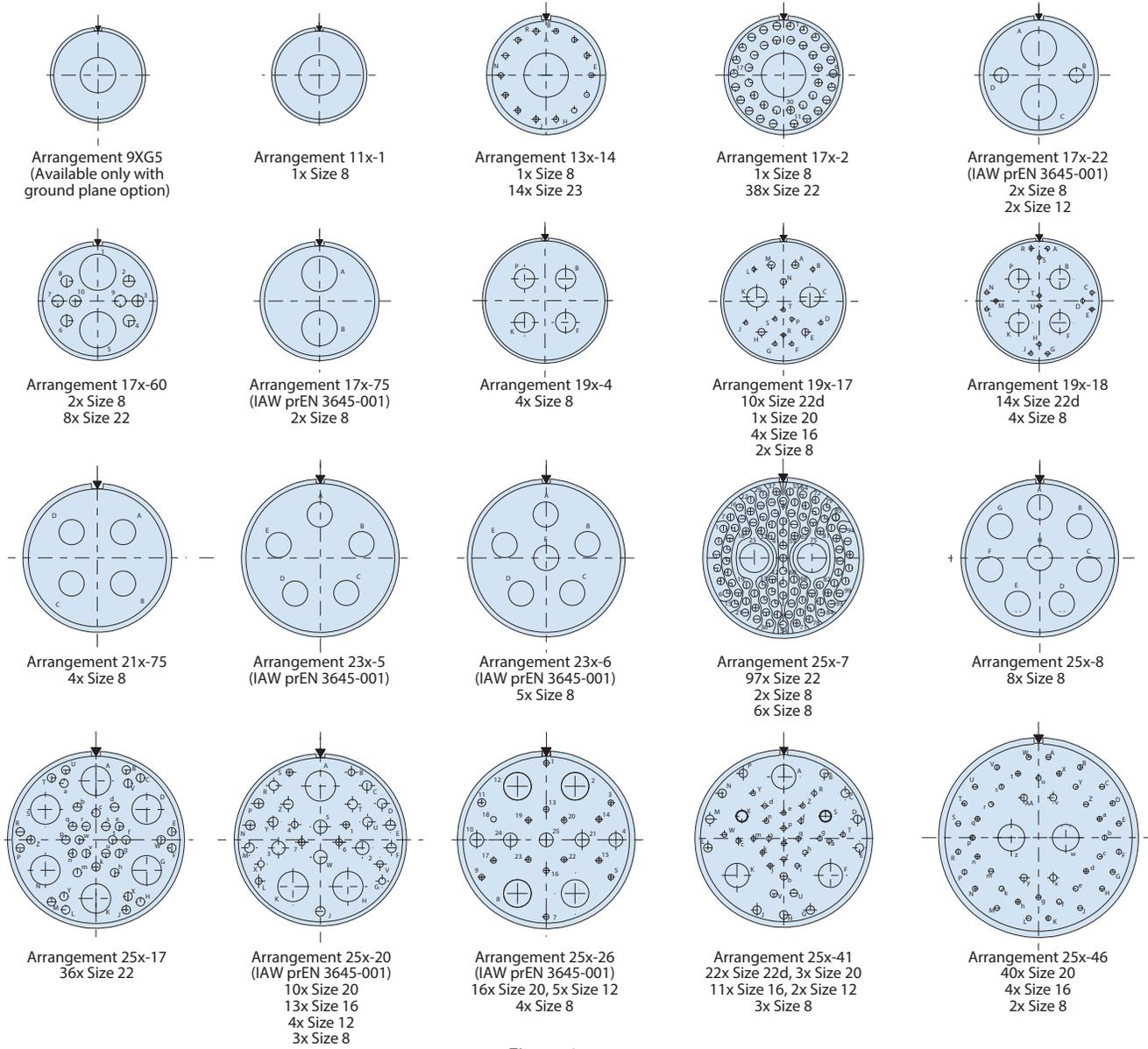
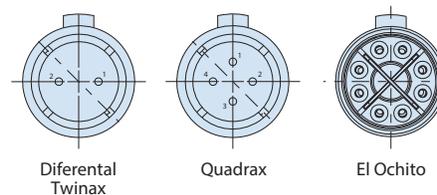


Figure 1
Insert arrangements, mating
face of pin insert shown.
Replace X with C, D, E, Q or T
(See Table VI)

FIGURE 2 - CONTACT INNER PIN ORIENTATION



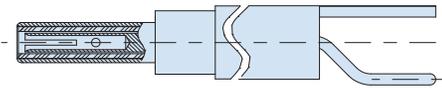
ENVIRONMENTAL CONNECTORS

MIL-DTL-38999 Series IV Type
234-218 High-speed panel mount receptacles, PC tail contact options

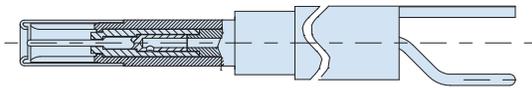
ENVIRONMENTAL CONNECTORS

COAX CONTACTS

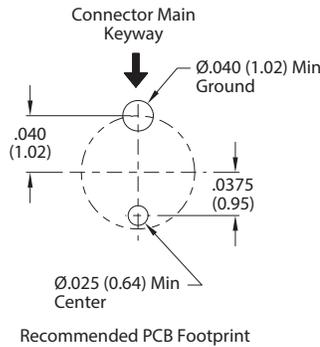
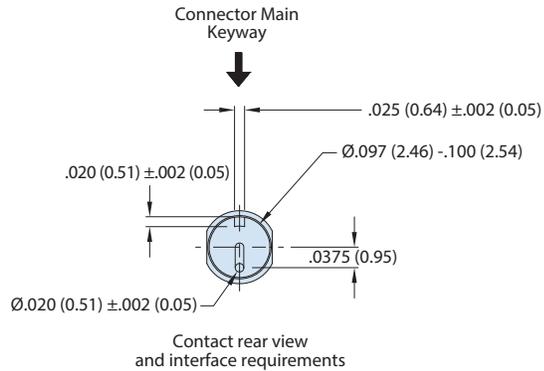
COAX CONTACTS



Size #16 Coax Contact, Pin, PC Tail Detail
Interface per M39029/76
Note: Max usable frequency of 700 Mhz



Size #16 Coax Contact, Socket, PC Tail Detail
Interface per M39029/77
Note: Max usable frequency of 700 Mhz



NOTES

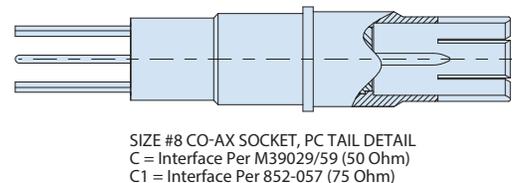
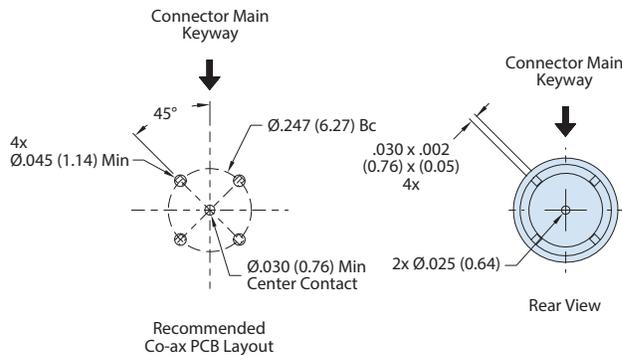
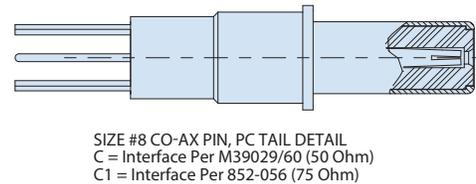
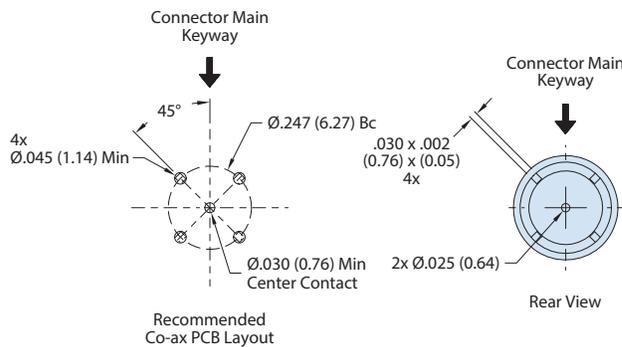
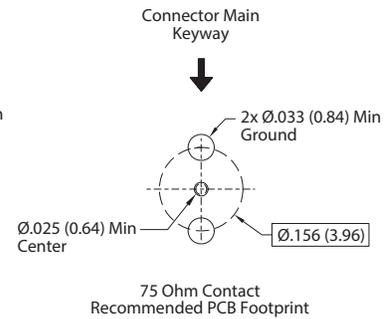
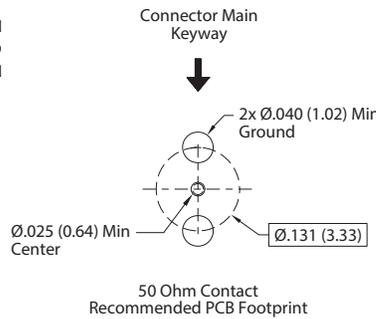
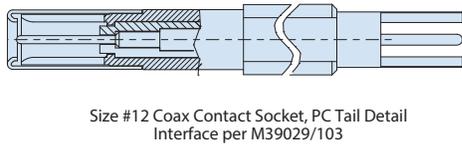
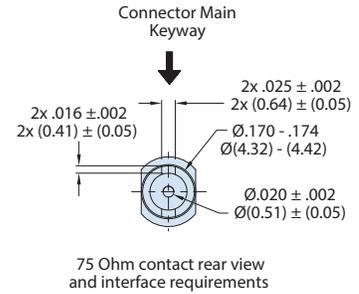
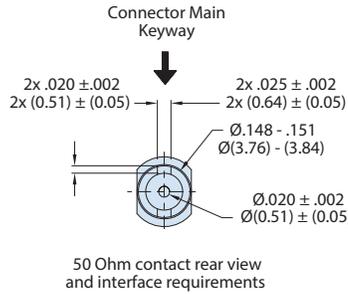
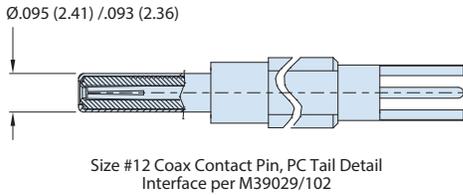
1. Material/Finish
 - Shell - See Table I
 - Contacts - Copper Alloy / Gold Plated
 - Insulators - High Grade Rigid Dielectric for common ground option - Al Alloy/ Mfg Option
 - Seals - Fluorosilicone Blend.
 - Potting - Epoxy.
2. Glenair's 234-218 receptacle connector is designed to meet or exceed the applicable mechanical, dimensional, electrical, and environmental requirements of MIL-DTL-38999, D38999/20, and MIL-STD-1560 except as shown and/or noted. Receptacle mates with any QPL manufacturer's MIL-DTL-38999, Series III plug connector, D38999/26, having the same shell size, insert arrangement, polarization and mating contact.
3. Glenair's 233-218 receptacle connector should be mated to Glenair's 233-217 plug with appropriate contacts to optimize performance.
4. Insert arrangement is in accordance with MIL-STD-1560 and figure 1. Contact manufacturer for additional arrangement options.
5. Insert arrangement is shown for reference only. Pin interface shown.
6. See figure 2 for reference orientation of the inner pins relative to connector main keyway.
7. Ground plane option only available for insert arrangements where all contacts are shielded type.
8. Coax contact mating interfaces shall be in accordance with the following:
 - Size #16 Per M39029/76 & /77
 - Size #12 Per M39029/102 & 103
 - Size #8, 50 Ohm Per M39029/59 & 60
 - Size #8, 75 Ohm Per 852-056 & -057
9. El Ochito mating contact shall be in accordance with Table III. El Ochito color type configuration position shall be per Table III.
10. For optimal performance, see Glenair application note AN0002.

MIL-DTL-38999 Series IV Type
234-218 High-speed panel mount receptacles, PC tail contact options

ENVIRONMENTAL CONNECTORS

COAX CONTACTS

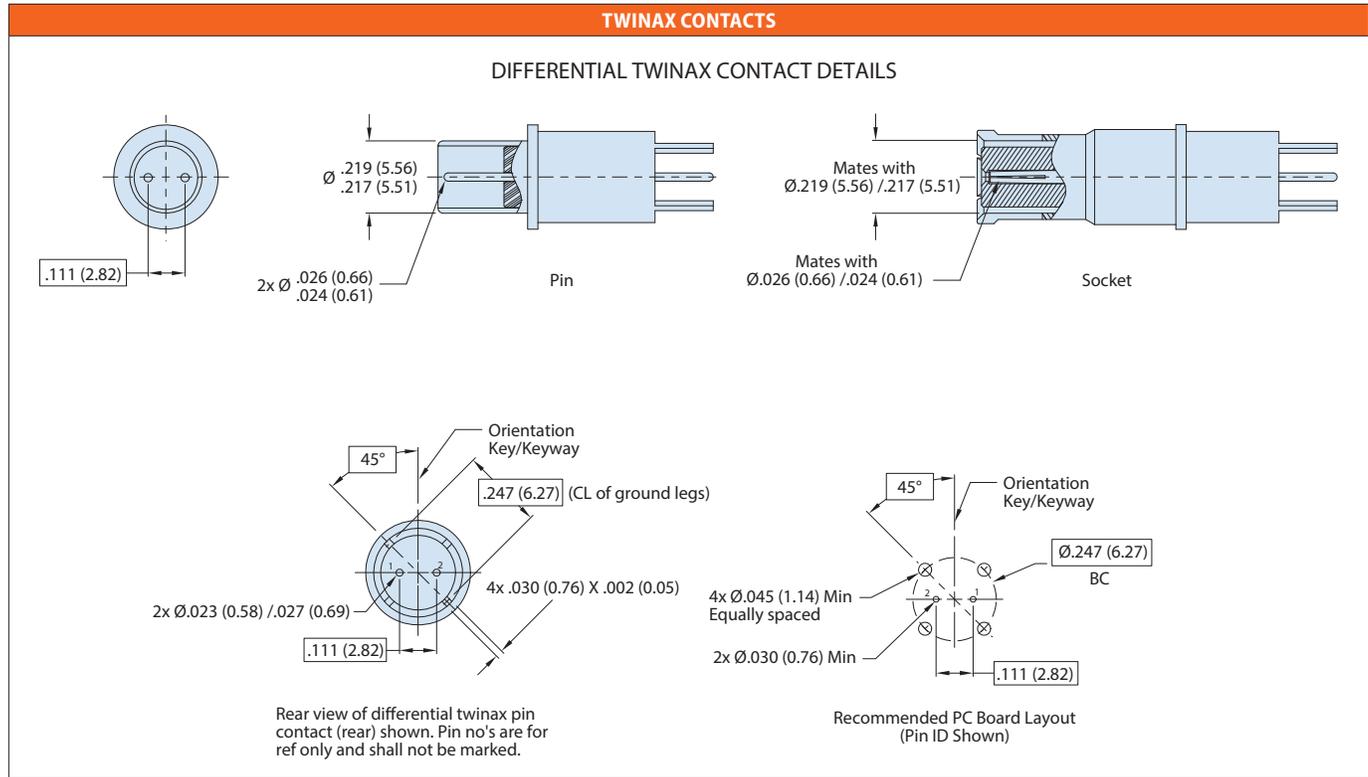
COAX CONTACTS



MIL-DTL-38999 Series IV Type

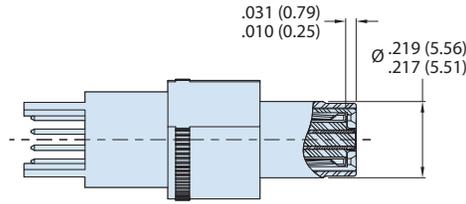
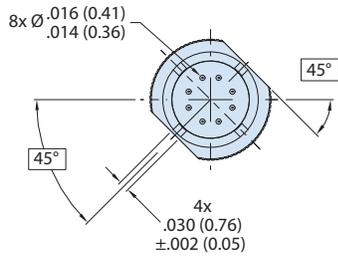
234-218 High-speed panel mount receptacles, PC tail contact options

ENVIRONMENTAL CONNECTORS

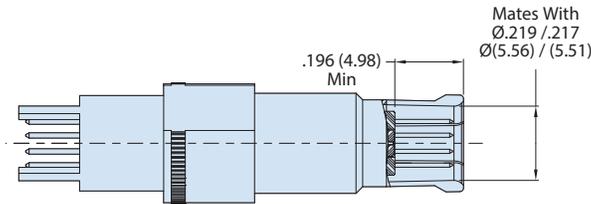
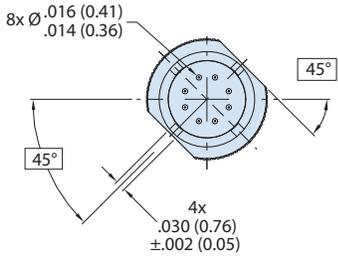


MIL-DTL-38999 Series IV Type
234-218 High-speed panel mount receptacles, PC tail contact options

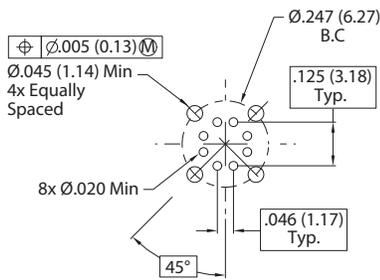
EL OCHITO CONTACTS



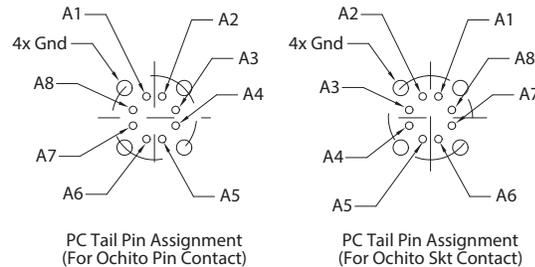
Size #8 El Ochito Pin, Pc Tail Detail
White Insert - For Ethernet Applications



Size #8 El Ochito Socket, PC Tail Detail
White Insert - For Ethernet Applications



Recommended PC Board Layout
(See Detail A for pin assignment)
For optimal performance, see
Glenair application note AN0002

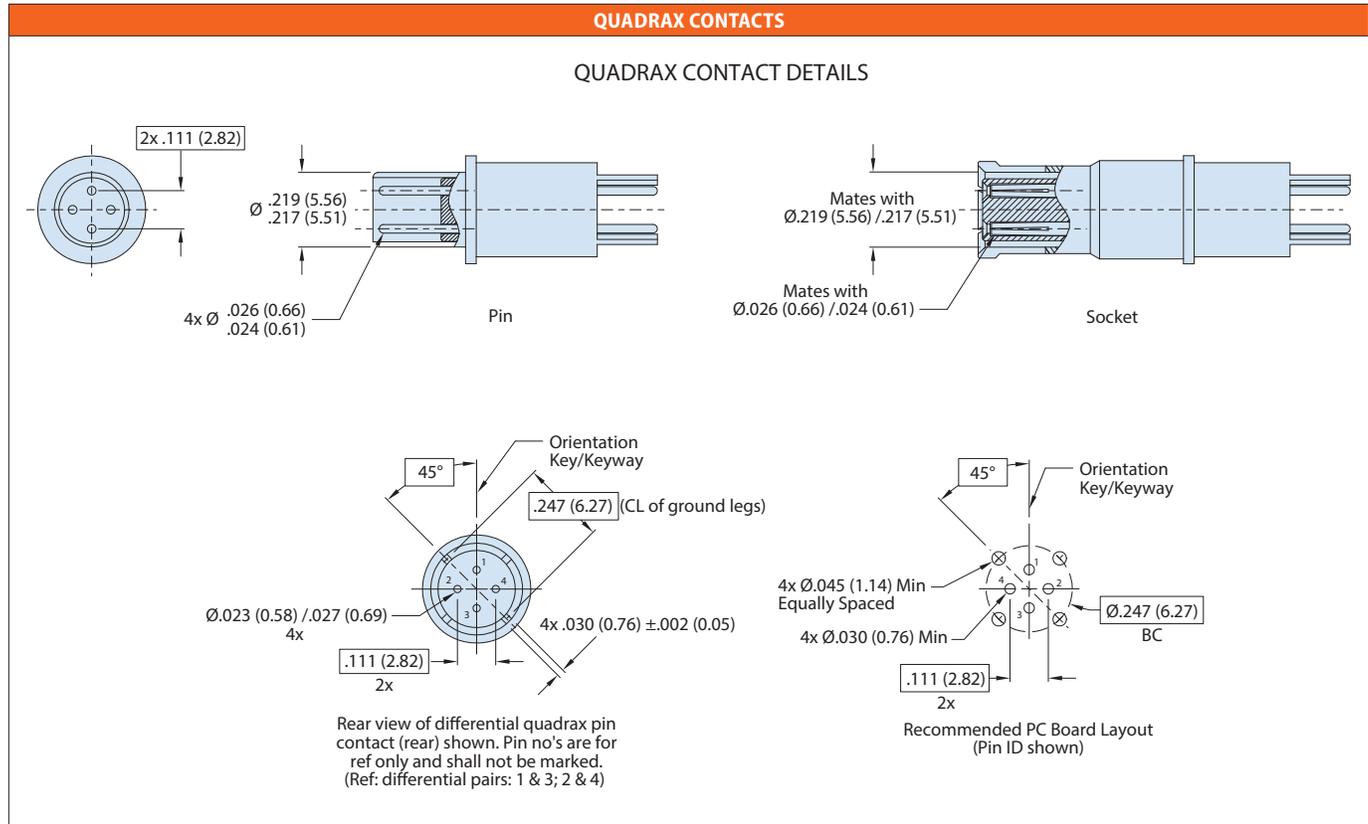


DETAIL A (TYP)

ENVIRONMENTAL CONNECTORS

MIL-DTL-38999 Series IV Type
234-218 High-speed panel mount receptacles, PC tail contact options

ENVIRONMENTAL CONNECTORS



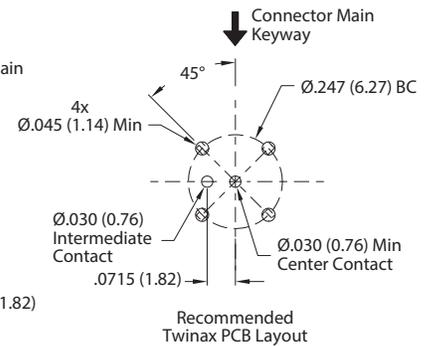
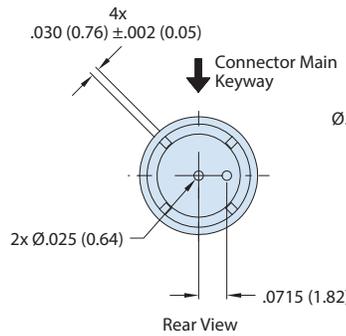
MIL-DTL-38999 Series IV Type
234-218 High-speed panel mount receptacles, PC tail contact options

TRIAX / CONCENTRIC TWINAX CONTACTS

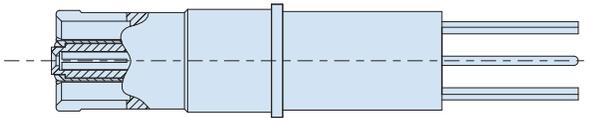
TRIAX / CONCENTRIC TWINAX PIN



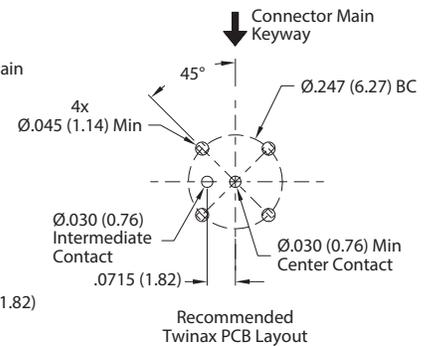
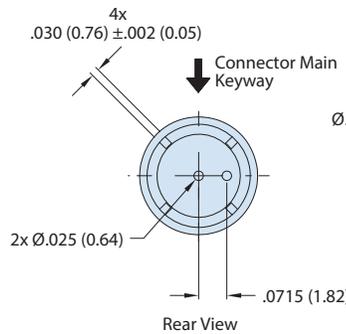
Size #8 Concentric Twinax Pin, PC Tail Detail
Interface per M39029/90 and/113



TRIAX / CONCENTRIC TWINAX SOCKET



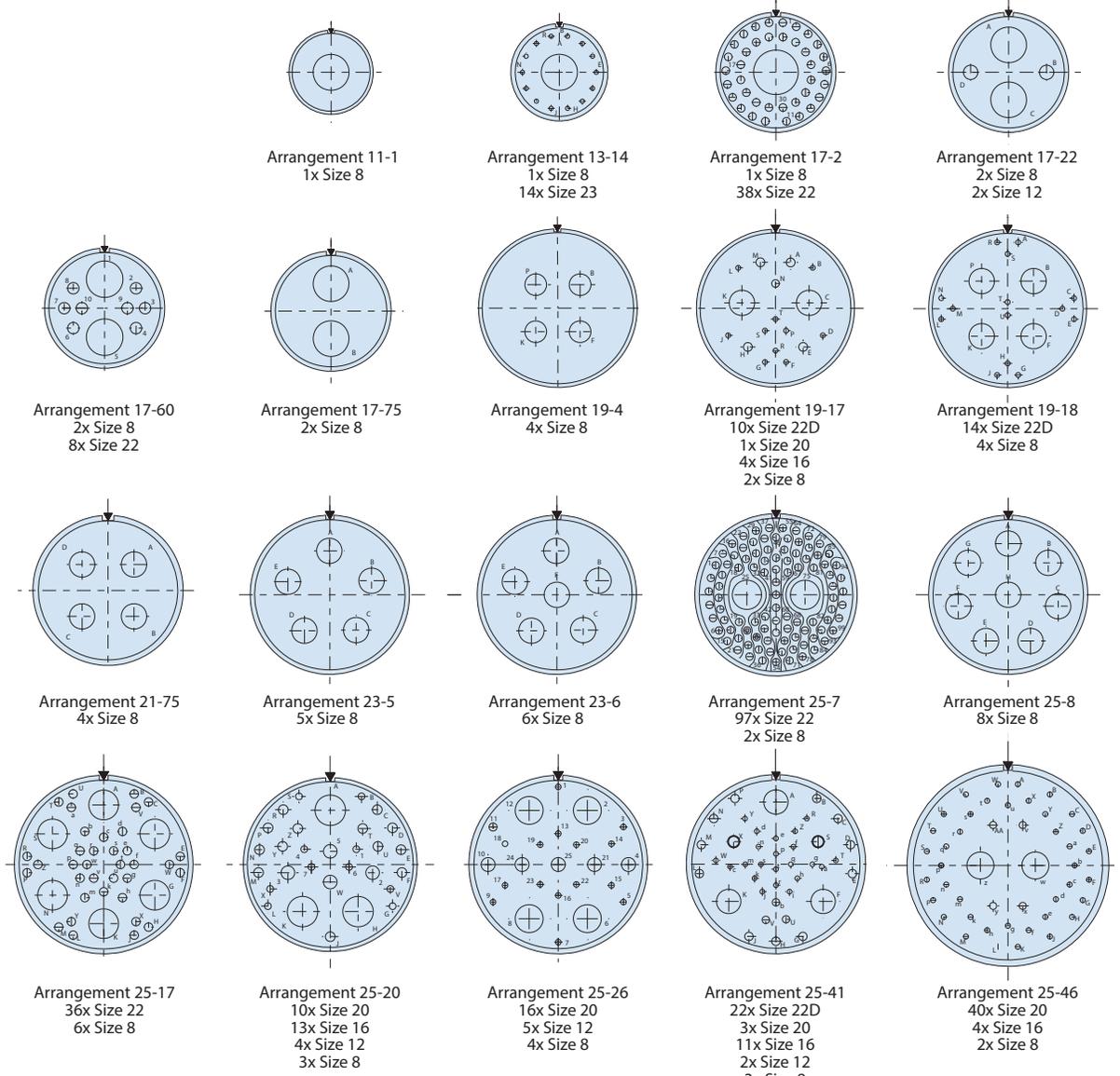
Size #8 Concentric Twinax Socket, PC Tail Detail
Interface per M39029/91 and/114



ENVIRONMENTAL CONNECTORS

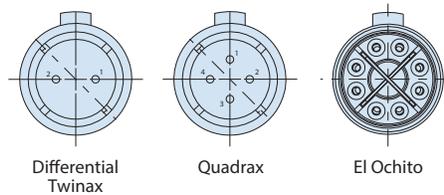
MIL-DTL-38999 Series IV Type
234-217 High-speed plug, and panel mount and jam nut receptacles ins. arrangements

HIGH-SPEED AND HYBRID INSERT ARRANGEMENTS



Insert arrangements, mating face of pin insert shown. Replace X with C, D, E, Q, P, or T (See Table III).

CONTACT INNER PIN ORIENTATION



Differential Twinax

Quadrax

El Ochito

BREECH-LOCK ENVIRONMENTAL CONNECTORS

MIL-DTL-38999 Series IV Type
234-218 High-speed panel mount receptacles, PC tail insert arrangements

FIGURE 1 - INSERT ARRANGEMENTS

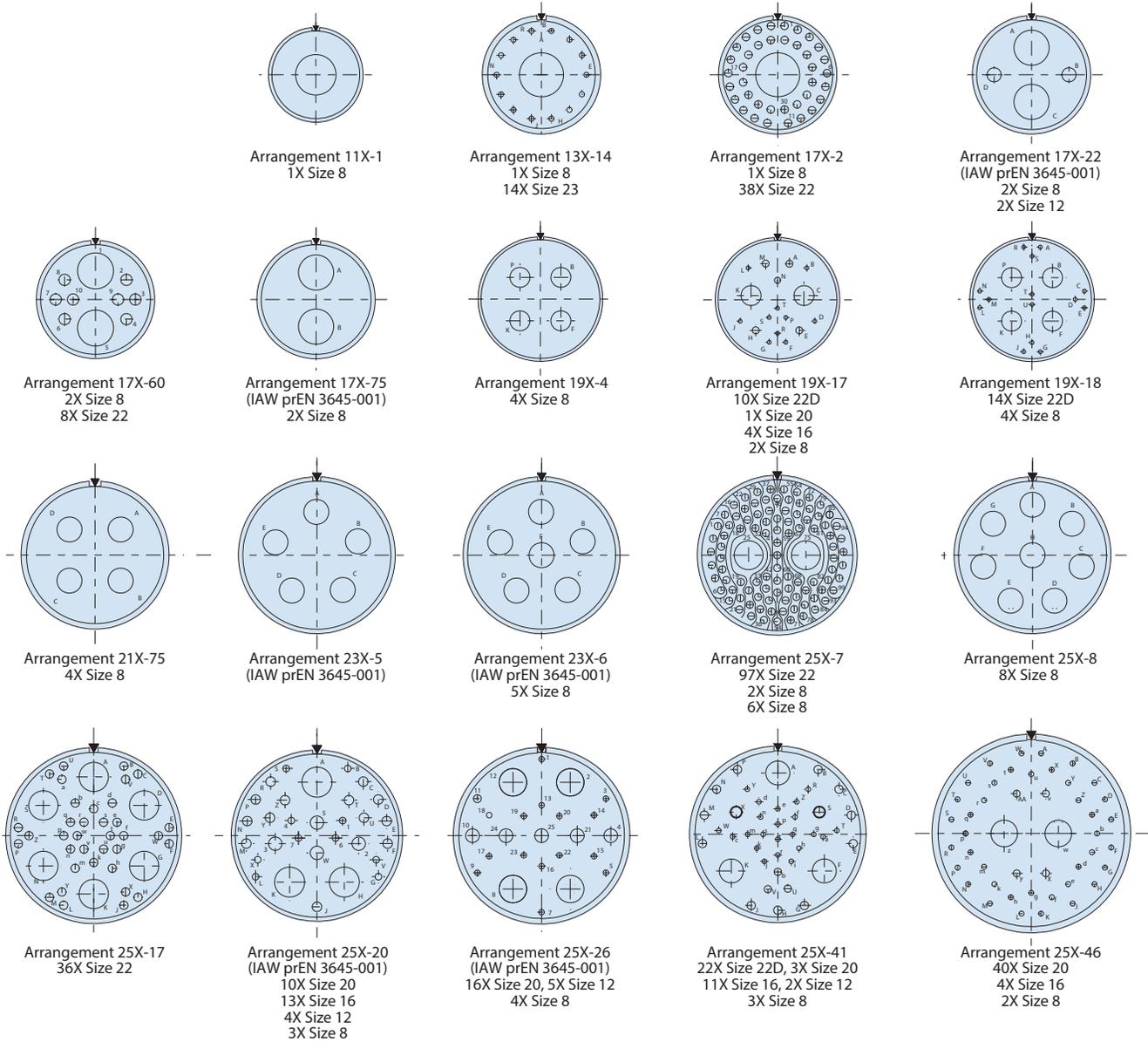
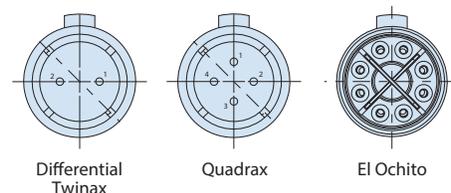


Figure 1
Insert arrangements, mating
face of pin insert shown.
Replace X with C, D, E, Q or T
(See Table VI)

FIGURE 2 - CONTACT INNER PIN ORIENTATION

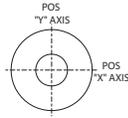


BREECH-LOCK ENVIRONMENTAL CONNECTORS

PCB Footprints: High-Speed

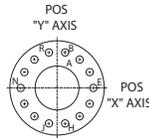
Mating face of pin insert shown (socket will be opposite)

11-1
1 #8



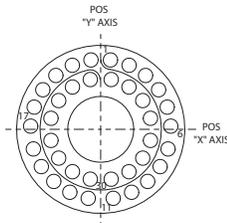
I.D. No.	Location		Gage
	X	Y	
A	.000	.000	NO. 8

13-4
1 #8
14 #23



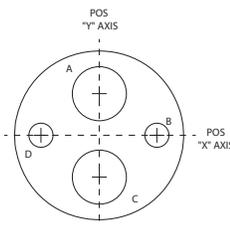
I.D. NO.	LOCATION		GAGE
	X	Y	
A	.000	.000	NO. 8
B	.049	.215	NO. 23
C	.137	.172	NO. 23
D	.198	.096	NO. 23
E	.220	.000	NO. 23
F	.198	-.096	NO. 23
G	.137	-.172	NO. 23
H	.049	-.215	NO. 23
J	-.049	-.215	NO. 23
K	-.137	-.172	NO. 23
M	-.198	-.096	NO. 23
N	-.220	.000	NO. 23
P	-.198	.096	NO. 23
Q	-.137	.172	NO. 23
R	-.049	.215	NO. 23

17-2
1 #8
38 #22



I.D. NO.	LOCATION		GAUGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
1	.046	.325	NO. 22D	21	-.133	.299	NO. 22D
2	.133	.299	NO. 22D	22	-.046	.325	NO. 22D
3	.211	.251	NO. 22D	23	.046	.231	NO. 22D
4	.272	.183	NO. 22D	24	.129	.197	NO. 22D
5	.312	.101	NO. 22D	25	.194	.133	NO. 22D
6	.328	.011	NO. 22D	26	.230	.050	NO. 22D
7	.318	-.079	NO. 22D	27	.232	-.040	NO. 22D
8	.284	-.164	NO. 22D	28	.200	-.125	NO. 22D
9	.228	-.236	NO. 22D	29	.137	-.191	NO. 22D
10	.154	-.289	NO. 22D	30	.055	-.229	NO. 22D
11	.068	-.321	NO. 22D	31	-.055	-.229	NO. 22D
12	-.068	-.321	NO. 22D	32	-.137	-.191	NO. 22D
13	.154	-.289	NO. 22D	33	-.200	-.125	NO. 22D
14	-.228	-.236	NO. 22D	34	-.232	-.040	NO. 22D
15	-.284	-.164	NO. 22D	35	-.230	.050	NO. 22D
16	-.318	-.079	NO. 22D	36	-.194	.133	NO. 22D
17	-.328	.011	NO. 22D	37	-.129	.197	NO. 22D
18	-.312	.101	NO. 22D	38	-.046	.231	NO. 22D
19	-.272	.183	NO. 22D	39	.000	.000	NO. 8
20	-.211	.251	NO. 22D				

17-22
2 #8
2 #12



I.D. NO.	LOCATION		GAGE
	X	Y	
A	0	.180	NO. 8
B	.249	0	NO.12
C	0	-.180	NO. 8
D	.249	0	NO. 12

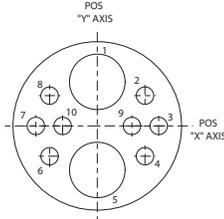
PCB FOOTPRINTS

PCB Footprints: High-Speed

Mating face of pin insert shown (socket will be opposite)

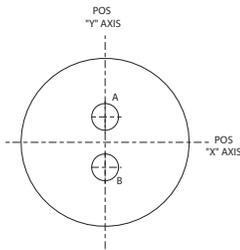
PCB FOOTPRINTS

17-60
 2 #8
 8 #22



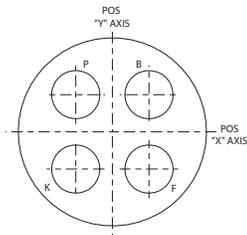
I.D. NO.	LOCATION		GAGE
	X	Y	
1	.000	.180	NO. 8
2	.240	.145	NO. 22D
3	.297	.000	NO. 22D
4	.240	-.145	NO. 22D
5	.000	-.180	NO. 8
6	-.240	-.145	NO. 22D
7	-.297	.000	NO. 22D
8	-.240	.145	NO. 22D
9	.177	.000	NO. 22D
10	-.177	.000	NO. 22D

17-75
 2 #8



I.D. NO.	LOCATION		GAGE
	X	Y	
A	.000	.187	NO. 8
B	.000	-.187	NO. 8

19-4
 4 #8

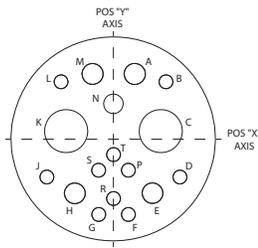


I.D. NO.	LOCATION		GAGE
	X	Y	
B	.180	.180	NO. 8
F	.180	-.180	NO. 8
K	-.180	-.180	NO. 8
P	-.180	.180	NO. 8

PCB Footprints: High-Speed

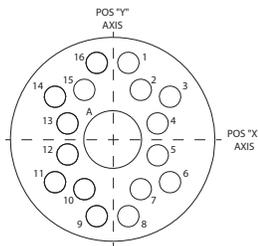
Mating face of pin insert shown (socket will be opposite)

19-17
2X #8
26X #20



I.D. NO.	LOCATION		GAGE
	X	Y	
A	0.099	0.301	NO. 20
B	0.244	0.265	NO. 20
C	0.220	0.035	NO. 8
D	0.310	-0.178	NO. 20
E	0.181	-0.254	NO. 20
F	0.069	-0.353	NO. 20
G	-0.069	-0.353	NO. 20
H	-0.181	-0.254	NO. 20
J	-0.310	-0.178	NO. 20
K	-0.220	0.035	NO. 8
L	-0.244	0.265	NO. 20
M	-0.099	0.301	NO. 20
N	0.000	0.162	NO. 20
P	0.069	-0.147	NO. 20
R	0.000	-0.278	NO. 20
S	-0.069	-0.147	NO. 20
T	0.000	-0.071	NO. 20

19A-17
1X #8
20X #16



I.D. NO.	LOCATION		GAGE
	X	Y	
1	+0.072	+0.328	NO. 20
2	+0.138	+0.208	NO. 20
3	+0.276	+0.195	NO. 20
4	+0.239	+0.067	NO. 20
5	+0.239	-0.067	NO. 20
6	+0.276	-0.195	NO. 20
7	+0.138	-0.208	NO. 20
8	+0.072	-0.328	NO. 20
9	-0.072	-0.328	NO. 20
10	-0.138	-0.208	NO. 20
11	-0.276	-0.195	NO. 20
12	-0.239	-0.067	NO. 20
13	-0.239	+0.067	NO. 20
14	-0.276	+0.195	NO. 20
15	-0.138	+0.208	NO. 20
16	-0.072	+0.328	NO. 20
A	+0.000	+0.000	NO. 8

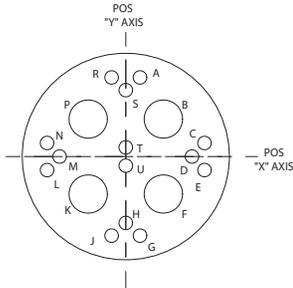
PCB FOOTPRINTS

PCB Footprints: High-Speed

PCB FOOTPRINTS

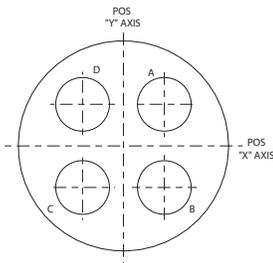
Mating face of pin insert shown (socket will be opposite)

19-18
4x #8
14X #22



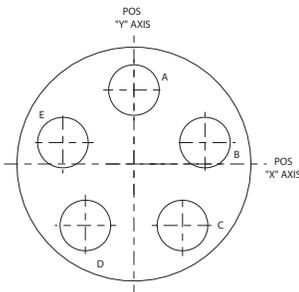
I.D. NO.	LOCATION		GAGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	+.068	+.380	NO. 22	L	-0.377	-0.065	NO. 22
B	+.180	+.180	NO. 8	M	-0.317	+.000	NO. 22
C	+.377	+.065	NO. 22	N	-0.377	+.065	NO. 22
D	+.317	+.000	NO. 22	P	-0.180	+.180	NO. 8
E	+.377	-0.065	NO. 22	R	-0.068	+.380	NO. 22
F	+.180	-0.180	NO. 8	S	+.000	+.319	NO. 22
G	+.068	-.380	NO. 22	T	+.000	+.044	NO. 22
K	-0.180	-0.180	NO. 8	U	+.000	-0.044	NO. 22

21-75
4 #8



I.D. NO.	LOCATION		GAGE
	X	Y	
B	.180	.180	NO. 8
F	.180	-.180	NO. 8
K	-.180	-.180	NO. 8
P	-.180	.180	NO. 8

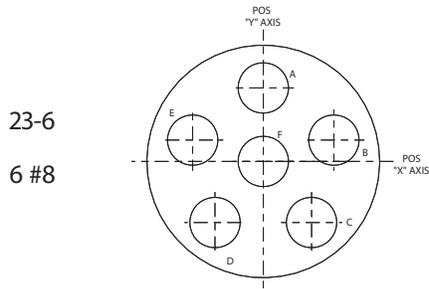
23-5
5 #8



I.D. NO.	LOCATION		GAGE
	X	Y	
A	.000	.364	NO. 8
B	.347	.113	NO. 8
C	.214	-.295	NO. 8
D	-.214	-.295	NO. 8
E	-.347	.113	NO. 8

PCB Footprints: High-Speed

Mating face of pin insert shown (socket will be opposite)



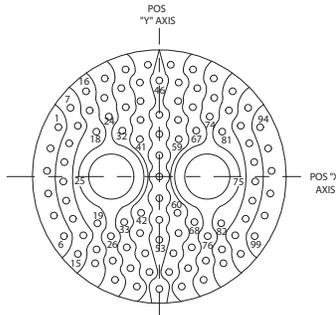
I.D. NO.	LOCATION		GAGE
	X	Y	
A	.000	.364	NO. 8
B	.347	.113	NO. 8
C	.214	-.295	NO. 8
D	-.214	-.295	NO. 8
E	-.347	.113	NO. 8
F	.000	.000	NO. 8

PCB Footprints: High-Speed

Mating face of pin insert shown (socket will be opposite)

PCB FOOTPRINTS

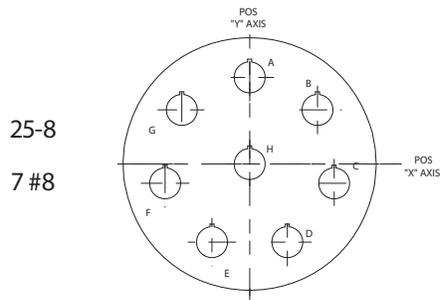
25-7
2 #8
97 #22D



I.D. NO.	LOCATION		GAUGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
1	-.494	.242	NO. 22	51	.000	-.106	NO. 22
2	-.533	.138	NO. 22	52	.000	-.212	NO. 22
3	-.550	.028	NO. 22	53	.000	-.310	NO. 22
4	-.544	-.083	NO. 22	54	.000	-.551	NO. 22
5	-.516	-.191	NO. 22	55	.056	.548	NO. 22
6	-.467	-.292	NO. 22	56	.095	.461	NO. 22
7	-.435	.337	NO. 22	57	.068	.370	NO. 22
8	-.399	.249	NO. 22	58	.092	.278	NO. 22
9	-.441	.163	NO. 22	59	.095	.183	NO. 22
10	-.465	.071	NO. 22	60	.089	-.178	NO. 22
11	-.470	-.024	NO. 22	61	.094	-.277	NO. 22
12	-.456	-.118	NO. 22	62	.069	-.376	NO. 22
13	-.423	-.207	NO. 22	63	.048	-.468	NO. 22
14	-.372	-.288	NO. 22	64	.165	.525	NO. 22
15	-.399	-.379	NO. 22	65	.186	.433	NO. 22
16	-.359	.418	NO. 22	66	.164	.340	NO. 22
17	-.341	.324	NO. 22	67	.181	.225	NO. 22
18	-.308	.222	NO. 22	68	.172	-.223	NO. 22
19	-.303	-.223	NO. 22	69	.159	-.347	NO. 22
20	-.307	-.357	NO. 22	70	.141	-.449	NO. 22
21	-.314	-.452	NO. 22	71	.111	-.539	NO. 22
22	-.267	.481	NO. 22	72	.267	.481	NO. 22
23	-.269	.386	NO. 22	73	.269	.386	NO. 22
24	-.247	.294	NO. 22	74	.247	.294	NO. 22
25	-.238	.000	NO. 8	75	.238	.000	NO. 8
26	-.237	-.292	NO. 22	76	.237	-.292	NO. 22
27	-.228	-.412	NO. 22	77	.228	-.412	NO. 22
28	-.217	-.506	NO. 22	78	.217	-.506	NO. 22
29	-.165	.525	NO. 22	79	.359	.418	NO. 22
30	-.186	.433	NO. 22	80	.341	.324	NO. 22
31	-.164	.340	NO. 22	81	.308	.222	NO. 22
32	-.181	.225	NO. 22	82	.303	-.223	NO. 22
33	-.172	-.223	NO. 22	83	.307	-.357	NO. 22
34	-.159	-.347	NO. 22	84	.314	-.452	NO. 22
35	-.141	-.449	NO. 22	85	.435	.337	NO. 22
36	-.111	-.539	NO. 22	86	.399	.249	NO. 22
37	-.056	.548	NO. 22	87	.441	.163	NO. 22
38	-.095	.461	NO. 22	88	.465	.071	NO. 22
39	-.068	.370	NO. 22	89	.470	-.024	NO. 22
40	-.092	.278	NO. 22	90	.456	-.118	NO. 22
41	-.095	.183	NO. 22	91	.423	-.207	NO. 22
42	-.089	-.178	NO. 22	92	.372	-.288	NO. 22
43	-.094	-.277	NO. 22	93	.399	-.379	NO. 22
44	-.069	-.376	NO. 22	94	.494	.242	NO. 22
45	-.048	-.468	NO. 22	95	.533	.138	NO. 22
46	.000	.471	NO. 22	96	.550	.028	NO. 22
47	.000	.303	NO. 22	97	.544	-.083	NO. 22
48	.000	.208	NO. 22	98	.516	-.191	NO. 22
49	.000	.104	NO. 22	99	.467	-.292	NO. 22
50	.000	.000	NO. 22				

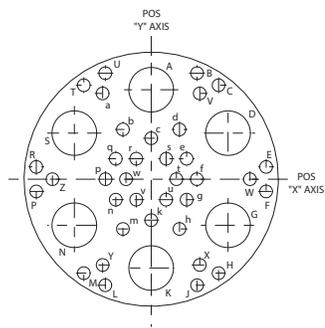
PCB Footprints: High-Speed

Mating face of pin insert shown (socket will be opposite)



I.D. NO.	LOCATION		GAGE
	X	Y	
A	.000 (.00)	.426 (1.82)	NO. 8
B	.333 (8.46)	.266 (6.76)	NO. 8
C	.415 (10.54)	-.095 (2.41)	NO. 8
D	.185 (4.70)	-.384 (9.75)	NO. 8
E	-.185 (4.70)	-.384 (9.75)	NO. 8
F	-.415 (-10.54)	-.095 (2.41)	NO. 8
G	-.333 (8.46)	.266 (6.76)	NO. 8
H	.000 (.00)	.000 (.00)	NO. 8

25-17
6 #8
36 #22D



I.D. NO.	LOCATION		GAUGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	.000	.437	NO. 8	a	-.237	.419	NO. 22
B	.224	.518	NO. 22	b	-.138	.243	NO. 22
C	.329	.459	NO. 22	c	.000	.200	NO. 22
D	.375	.225	NO. 8	d	.138	.243	NO. 22
E	.561	.060	NO. 22	e	.173	.100	NO. 22
F	.561	-.060	NO. 22	f	.223	.000	NO. 22
G	.375	-.225	NO. 8	g	.173	-.100	NO. 22
H	.329	-.459	NO. 22	h	.138	-.243	NO. 22
J	.224	-.518	NO. 22	k	.000	-.200	NO. 22
K	.000	-.437	NO. 8	m	-.138	-.243	NO. 22
L	-.224	-.518	NO. 22	n	-.173	-.100	NO. 22
M	-.329	-.459	NO. 22	p	-.223	.000	NO. 22
N	-.375	-.225	NO. 8	q	-.173	.100	NO. 22
P	-.561	-.060	NO. 22	r	-.073	.100	NO. 22
R	-.561	.060	NO. 22	s	.073	.100	NO. 22
S	-.375	.225	NO. 8	t	.123	.000	NO. 22
T	-.329	.459	NO. 22	u	.073	-.100	NO. 22
U	-.224	.518	NO. 22	v	-.073	-.100	NO. 22
V	.237	.419	NO. 22	w	-.123	.000	NO. 22
W	.482	.000	NO. 22				
X	.237	-.419	NO. 22				
Y	-.237	-.419	NO. 22				
Z	-.482	.000	NO. 22				

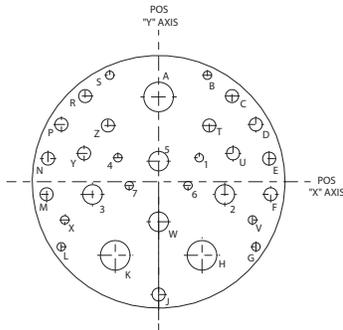
PCB FOOTPRINTS

PCB Footprints: High-Speed

PCB FOOTPRINTS

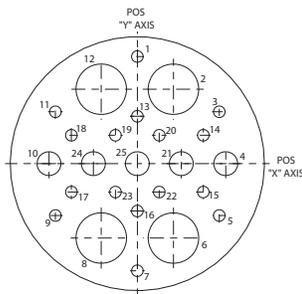
Mating face of pin insert shown (socket will be opposite)

25-20
3 #8
4 #12
3 #16
10 #20



I.D. NO.	LOCATION		GAUGE	I.D. NO.	LOCATION		GAUGE
	X	Y			X	Y	
A	.000	.407	NO. 8	S	.234	.511	NO. 20
B	.234	.511	NO. 20	T	.243	.270	NO. 16
C	.352	.411	NO. 16	U	.357	.136	NO. 16
D	.466	.275	NO. 16	V	.450	-.183	NO. 20
E	.530	.111	NO. 16	W	.000	-.131	NO. 12
F	.537	-.060	NO. 16	X	.450	-.183	NO. 20
G	.467	-.312	NO. 20	Y	.357	.136	NO. 16
H	.208	-.353	NO. 8	Z	.243	.270	NO. 16
J	.000	-.541	NO. 16	1	.195	.115	NO. 20
K	-.208	-.353	NO. 8	2	.317	-.061	NO. 12
L	-.467	-.312	NO. 20	3	-.317	-.061	NO. 12
M	-.537	-.060	NO. 16	4	-.195	.115	NO. 20
N	.530	.111	NO. 16	5	.000	.099	NO. 12
P	.466	.275	NO. 16	6	.141	-.018	NO. 20
R	.352	.411	NO. 16	7	-.141	-.018	NO. 20

25-26
4 #8
5 #12
16 #20

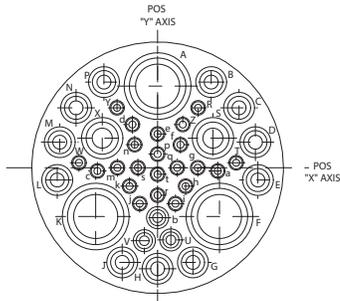


I.D. NO.	LOCATION		GAUGE
	X	Y	
1	.000	.548	NO. 20
2	.205	.382	NO. 8
3	.460	.265	NO. 20
4	.495	.000	NO. 12
5	.460	-.265	NO. 20
6	.205	-.382	NO. 8
7	.000	-.548	NO. 20
8	-.205	-.382	NO. 8
9	-.460	-.265	NO. 20
10	-.495	.000	NO. 12
11	-.460	.265	NO. 20
12	-.205	.382	NO. 8
13	.000	.218	NO. 20
14	.375	.147	NO. 20
15	.375	-.147	NO. 20
16	.000	-.218	NO. 20
17	.375	-.147	NO. 20
18	.375	.147	NO. 20
19	.127	.140	NO. 20
20	.127	.140	NO. 20
21	.255	.000	NO. 12
22	.127	-.140	NO. 20
23	.127	-.140	NO. 20
24	.255	.000	NO. 12
25	.000	.000	NO. 12

PCB Footprints: High-Speed

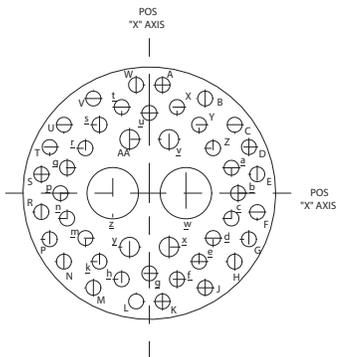
Mating face of pin insert shown (socket will be opposite)

25-41
3 #8
2 #12
11 #16
3 #20
22 #22D



I.D. NO.	LOCATION		GAUGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	.000	.425	NO. 8	a	.313	-.017	NO. 22D
B	.279	.446	NO. 16	b	.000	-.260	NO. 20
C	.424	.312	NO. 16	c	-.313	-.017	NO. 22D
D	.509	.133	NO. 16	d	-.131	.225	NO. 22D
E	.522	-.064	NO. 16	e	.000	.176	NO. 22D
F	.322	-.254	NO. 8	f	.119	.120	NO. 22D
G	.184	-.493	NO. 16	g	.209	.000	NO. 22D
H	.000	-.526	NO. 16	h	.146	-.096	NO. 22D
J	-.184	-.493	NO. 16	i	.093	-.187	NO. 22D
K	-.322	-.254	NO. 8	j	-.093	-.187	NO. 22D
L	-.522	-.064	NO. 16	k	-.146	-.096	NO. 22D
M	-.509	.133	NO. 16	m	-.209	.000	NO. 22D
N	-.424	.312	NO. 16	n	-.119	.120	NO. 22D
P	-.279	.446	NO. 16	p	.000	.071	NO. 22D
R	.211	.312	NO. 22D	q	.102	.000	NO. 22D
S	.288	.154	NO. 12	r	.000	-.143	NO. 22D
T	.409	.026	NO. 22D	s	-.102	.000	NO. 22D
U	.069	-.380	NO. 20	t	.000	-.034	NO. 22D
V	-.069	-.380	NO. 20				
W	-.409	.026	NO. 22D				
X	-.288	.154	NO. 12				
Y	-.211	.312	NO. 22D				
Z	.131	.225	NO. 22D				

25-90
&
25-46
2 #8
4 #16
40 #20



I.D. NO.	LOCATION		GAUGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	.065	.533	NO. 20	a	.404	.125	NO. 20
B	.275	.466	NO. 20	b	.437	.000	NO. 20
C	.420	.337	NO. 20	c	.404	-.125	NO. 20
D	.490	.227	NO. 20	d	.314	-.221	NO. 20
E	.531	.093	NO. 20	e	.245	-.337	NO. 20
F	.531	-.093	NO. 20	f	.136	-.424	NO. 20
G	.490	-.227	NO. 20	g	.000	-.395	NO. 20
H	.420	-.337	NO. 20	h	-.136	-.424	NO. 20
J	.275	-.466	NO. 20	k	-.245	-.337	NO. 20
K	.065	-.533	NO. 20	m	-.314	-.221	NO. 20
L	-.065	-.533	NO. 20	n	-.404	-.125	NO. 20
M	-.275	-.466	NO. 20	p	-.437	.000	NO. 20
N	-.420	-.337	NO. 20	q	-.404	.125	NO. 20
P	-.490	-.227	NO. 20	r	-.314	.221	NO. 20
R	-.531	-.093	NO. 20	s	-.245	.337	NO. 20
S	-.531	.093	NO. 20	t	-.136	.424	NO. 20
T	-.490	.227	NO. 20	u	.000	.395	NO. 20
U	-.420	.337	NO. 20	v	.097	.265	NO. 16
V	-.275	.466	NO. 20	w	.180	.000	NO. 8
W	-.065	.533	NO. 20	x	.097	-.265	NO. 16
X	.136	.424	NO. 20	y	-.097	-.265	NO. 16
Y	.245	.337	NO. 20	z	-.180	.000	NO. 8
Z	.314	.221	NO. 20	AA	-.097	.265	NO. 16

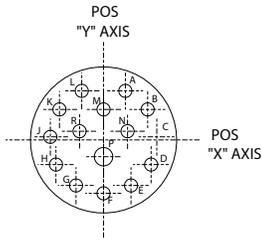
PCB FOOTPRINTS

PCB Footprints: Combo

PCB FOOTPRINTS

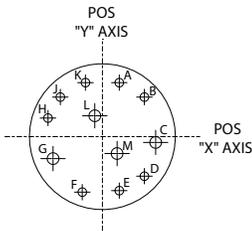
Mating face of pin insert shown (socket will be opposite)

15-15
 1x #16
 14X #20



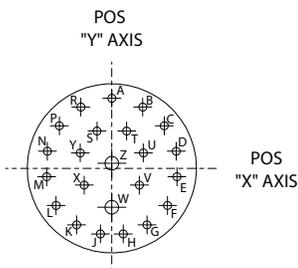
I.D. NO.	LOCATION		GAGE
	X	Y	
A	0.100	0.225	NO. 20
B	0.202	0.140	NO. 20
C	0.244	0.014	NO. 20
D	0.218	-0.113	NO. 20
E	0.126	-0.209	NO. 20
F	0.000	-0.245	NO. 20
G	-0.126	-0.209	NO. 20
H	-0.218	-0.113	NO. 20
J	-0.244	0.014	NO. 20
K	-0.202	0.140	NO. 20
L	-0.100	0.225	NO. 20
M	0.000	0.140	NO. 20
N	0.110	0.040	NO. 20
P	0.000	-0.077	NO. 16
R	-0.110	0.040	NO. 20

15-97
 4X #16
 8X #20



I.D. NO.	LOCATION		GAGE
	X	Y	
A	0.065	0.234	NO. 16
B	0.178	0.178	NO. 16
C	0.230	-0.023	NO. 20
D	0.178	-0.178	NO. 16
E	0.065	-0.234	NO. 16
F	-0.089	-0.235	NO. 16
G	-0.207	-0.095	NO. 20
H	-0.234	0.065	NO. 16
J	-0.178	0.178	NO. 16
K	-0.065	0.234	NO. 16
L	-0.047	0.081	NO. 20
M	0.047	-0.081	NO. 20

17-99
 2X #16
 37X #20

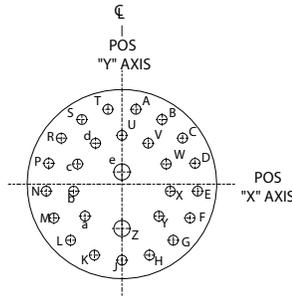


I.D. NO.	LOCATION			I.D. NO.	LOCATION		
	X	Y	GAGE		X	Y	GAGE
A	0.000	0.321	NO. 20	N	-0.305	0.099	NO. 20
B	0.131	0.293	NO. 20	P	-0.239	0.214	NO. 20
C	0.239	0.214	NO. 20	R	-0.131	0.293	NO. 20
D	0.305	0.099	NO. 20	S	-0.070	0.177	NO. 20
E	0.319	-0.034	NO. 20	T	0.070	0.177	NO. 20
F	0.278	-0.161	NO. 20	U	0.175	0.094	NO. 20
G	0.189	-0.260	NO. 20	V	0.150	-0.075	NO. 20
H	0.067	-0.314	NO. 20	W	0.000	-0.161	NO. 16
J	-0.067	-0.314	NO. 20	X	-0.150	-0.075	NO. 20
K	-0.189	-0.260	NO. 20	Y	-0.175	0.094	NO. 20
L	-0.278	-0.161	NO. 20	Z	0.000	0.025	NO. 16
M	-0.319	-0.034	NO. 20				

PCB Footprints: Combo

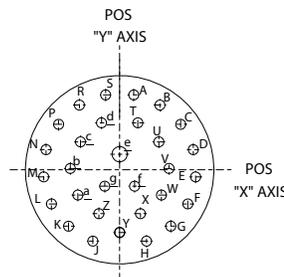
Mating face of pin insert shown (socket will be opposite)

19-28
2X #16
26X #20



I.D. NO.	LOCATION		GAGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	0.066	0.353	NO. 20	R	-0.286	0.217	NO. 20
B	0.189	0.305	NO. 20	S	-0.189	0.305	NO. 20
C	0.286	0.217	NO. 20	T	-0.066	0.353	NO. 20
D	0.345	0.098	NO. 20	U	0	0.230	NO. 20
E	0.357	-0.033	NO. 20	V	0.124	0.193	NO. 20
F	0.321	-0.160	NO. 20	W	0.209	0.095	NO. 20
G	0.242	-0.265	NO. 20	X	0.228	-0.033	NO. 20
H	0.130	-0.335	NO. 20	Y	0.174	-0.151	NO. 20
J	0	-0.359	NO. 20	Z	0	-0.191	NO. 16
K	-0.130	-0.335	NO. 20	a	-0.174	-0.151	NO. 20
L	-0.242	-0.265	NO. 20	b	-0.228	-0.033	NO. 20
M	-0.321	-0.160	NO. 20	c	-0.209	0.095	NO. 20
N	-0.357	-0.033	NO. 20	d	-0.124	0.193	NO. 20
P	-0.345	0.098	NO. 20	e	0	0.062	NO. 16

19-30
1X #16
29X #20



I.D. NO.	LOCATION		GAGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	0.065	0.346	NO. 20	S	-0.065	0.346	NO. 20
B	0.186	0.299	NO. 20	T	0.084	0.217	NO. 20
C	0.282	0.210	NO. 20	U	0.181	0.129	NO. 20
D	0.340	0.093	NO. 20	V	0.228	0.008	NO. 20
E	0.351	-0.033	NO. 20	W	0.193	-0.117	NO. 20
F	0.315	-0.158	NO. 20	X	0.096	-0.203	NO. 20
G	0.236	-0.261	NO. 20	Y	0.000	-0.290	NO. 20
H	0.124	-0.330	NO. 20	Z	-0.096	-0.203	NO. 20
J	-0.124	-0.330	NO. 20	a	-0.193	-0.117	NO. 20
K	-0.236	-0.261	NO. 20	b	-0.228	0.008	NO. 20
L	-0.315	-0.158	NO. 20	c	-0.181	0.129	NO. 20
M	-0.351	-0.033	NO. 20	d	-0.084	0.217	NO. 20
N	-0.340	0.093	NO. 20	e	0.000	0.072	NO. 16
P	-0.282	0.210	NO. 20	f	0.069	-0.076	NO. 20
R	-0.186	0.299	NO. 20	g	-0.069	-0.076	NO. 20

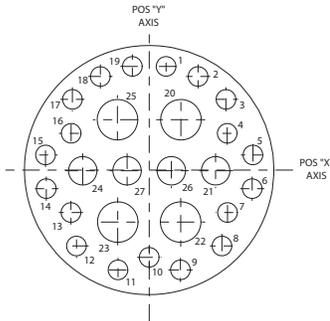
PCB FOOTPRINTS

PCB Footprints: Combo

PCB FOOTPRINTS

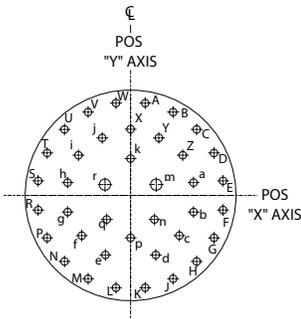
Mating face of pin insert shown (socket will be opposite)

21-29
4X #12
4X #16
19X #20



I.D. NO.	LOCATION		GAGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
1	+0.067	+0.412	NO. 20	15	-0.412	+0.060	NO. 20
2	+0.194	+0.372	NO. 20	16	-0.310	+0.146	NO. 20
3	+0.305	+0.281	NO. 20	17	-0.305	+0.281	NO. 20
4	+0.310	+0.146	NO. 20	18	-0.194	+0.372	NO. 20
5	+0.412	+0.060	NO. 20	19	-0.067	+0.412	NO. 20
6	+0.409	-0.074	NO. 20	20	+0.126	+0.200	NO. 12
7	+0.311	-0.169	NO. 20	21	+0.264	-0.003	NO. 16
8	+0.289	-0.302	NO. 20	22	+0.125	-0.207	NO. 12
9	+0.124	-0.397	NO. 20	23	-0.125	-0.207	NO. 12
10	0.000	-0.347	NO. 20	24	-0.264	-0.003	NO. 16
11	-0.124	-0.397	NO. 20	25	-0.126	+0.200	NO. 12
12	-0.289	-0.302	NO. 20	26	+0.088	-0.003	NO. 16
13	-0.311	-0.169	NO. 20	27	-0.088	-0.003	NO. 16
14	-0.409	-0.074	NO. 20				

21-39
2X #16
37X #20

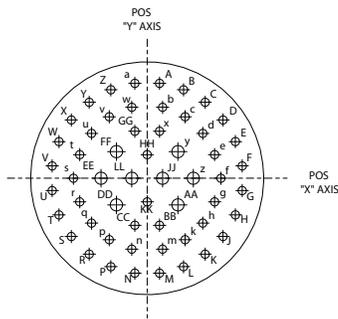


I.D. NO.	LOCATION		GAGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	0.065	0.411	NO. 20	a	0.280	0.057	NO. 20
B	0.189	0.371	NO. 20	b	0.280	-0.074	NO. 20
C	0.294	0.294	NO. 20	c	0.217	-0.189	NO. 20
D	0.371	0.189	NO. 20	d	0.112	-0.265	NO. 20
E	0.411	0.065	NO. 20	e	-0.112	-0.265	NO. 20
F	0.411	-0.065	NO. 20	f	-0.217	-0.189	NO. 20
G	0.371	-0.189	NO. 20	g	-0.280	-0.074	NO. 20
H	0.294	-0.294	NO. 20	h	-0.280	0.057	NO. 20
J	0.189	-0.371	NO. 20	i	-0.232	0.179	NO. 20
K	0.065	-0.411	NO. 20	j	-0.126	0.256	NO. 20
L	-0.065	-0.411	NO. 20	k	0	0.164	NO. 20
M	-0.189	-0.371	NO. 20	m	0.114	0.048	NO. 16
N	-0.294	-0.294	NO. 20	n	0.106	-0.107	NO. 20
P	-0.371	-0.189	NO. 20	p	0	-0.189	NO. 20
R	-0.411	-0.065	NO. 20	q	-0.106	-0.107	NO. 20
S	-0.411	0.065	NO. 20	r	-0.114	0.048	NO. 16
T	-0.371	0.189	NO. 20				
U	-0.294	0.294	NO. 20				
V	-0.189	0.371	NO. 20				
W	-0.065	0.411	NO. 20				
X	0	0.295	NO. 20				
Y	0.126	0.256	NO. 20				
Z	0.232	0.179	NO. 20				

PCB Footprints: Combo

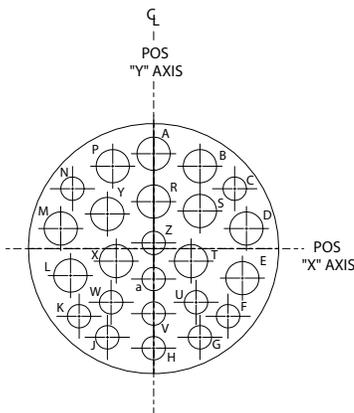
Mating face of pin insert shown (socket will be opposite)

25-4
8X #16
48X #20



I.D. NO.	LOCATION		GAGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	0.069	0.531	NO. 20	f	0.412	0.000	NO. 20
B	0.203	0.495	NO. 20	g	0.377	-0.132	NO. 20
C	0.324	0.425	NO. 20	h	0.311	-0.251	NO. 20
D	0.424	0.326	NO. 20	k	0.212	-0.344	NO. 20
E	0.493	0.205	NO. 20	m	0.086	-0.397	NO. 20
F	0.531	0.069	NO. 20	n	-0.086	-0.397	NO. 20
G	0.531	-0.069	NO. 20	p	-0.212	-0.344	NO. 20
H	0.493	-0.205	NO. 20	q	-0.311	-0.251	NO. 20
J	0.424	-0.326	NO. 20	r	-0.377	-0.132	NO. 20
K	0.324	-0.425	NO. 20	s	-0.412	0.000	NO. 20
L	0.203	-0.495	NO. 20	t	-0.377	0.132	NO. 20
M	0.069	-0.531	NO. 20	u	-0.311	0.251	NO. 20
N	-0.069	-0.531	NO. 20	v	-0.212	0.344	NO. 20
P	-0.203	-0.495	NO. 20	w	-0.086	0.397	NO. 20
R	-0.324	-0.425	NO. 20	x	0.069	0.263	NO. 20
S	-0.424	-0.326	NO. 20	y	0.172	0.149	NO. 20
T	-0.493	-0.205	NO. 20	z	0.258	0.000	NO. 20
U	-0.531	-0.069	NO. 20	AA	0.172	-0.149	NO. 16
V	-0.531	0.069	NO. 20	BB	0.069	-0.263	NO. 16
W	-0.493	0.205	NO. 20	CC	-0.069	-0.263	NO. 16
X	-0.424	0.326	NO. 20	DD	-0.172	-0.149	NO. 16
Y	-0.324	0.425	NO. 20	EE	-0.258	0.000	NO. 16
Z	-0.203	0.495	NO. 20	FF	-0.172	0.149	NO. 16
a	-0.069	0.531	NO. 20	GG	-0.069	0.263	NO. 16
b	0.086	0.397	NO. 20	HH	0.000	0.132	NO. 16
c	0.212	0.344	NO. 20	JJ	0.086	0.000	NO. 16
d	0.311	0.251	NO. 20	KK	0.000	-0.132	NO. 16
e	0.377	0.132	NO. 20	LL	-0.086	0.000	NO. 16

25-24
12X #16
12X #12



I.D. NO.	LOCATION		GAGE	I.D. NO.	LOCATION		GAGE
	X	Y			X	Y	
A	+0.000	+0.472	NO. 12	N	-0.403	+0.298	NO. 16
B	+0.230	+0.410	NO. 12	P	-0.230	+0.410	NO. 12
C	+0.403	+0.298	NO. 16	R	+0.000	+0.234	NO. 12
D	+0.461	+0.100	NO. 12	S	+0.230	+0.172	NO. 12
E	+0.413	-0.134	NO. 12	T	+0.186	-0.062	NO. 12
F	+0.370	-0.336	NO. 16	U	+0.211	-0.267	NO. 16
G	+0.230	-0.441	NO. 16	V	+0.000	-0.323	NO. 16
H	+0.000	-0.495	NO. 16	W	-0.211	-0.267	NO. 16
J	-0.230	-0.441	NO. 16	X	-0.186	-0.062	NO. 12
K	-0.370	-0.336	NO. 16	Y	-0.230	+0.172	NO. 12
L	-0.413	-0.134	NO. 16	Z	+0.000	+0.028	NO. 16
M	-0.461	+0.100	NO. 12	a	+0.000	-0.151	NO. 16

PCB FOOTPRINTS

PCB Footprints: Combo

Mating face of pin insert shown (socket will be opposite)

PCB FOOTPRINTS

25-43

20X #16

23X #20

