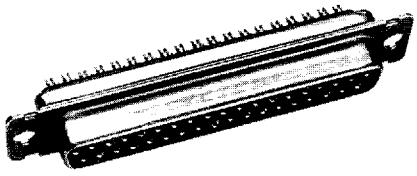
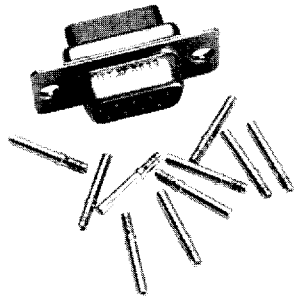
High Reliability, Military D Subminiature, & Non-Magnetic/No-Outgas

Solder Cup



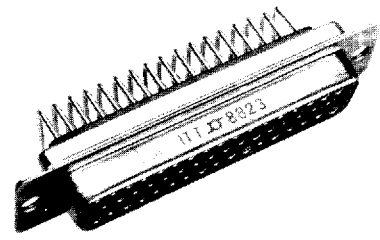
(See page 333)

Crimp



(See page 334-335)

Printed Circuit



(See page 336-338)

Performance and Material Specifications

MATERIALS AND FINISHES

	Standard		Military	
	Material	**Finish**	**Material**	**Finish**
Shell	Steel per ASTM A-620	Yellow chromate over cadmium QQ-P-416 Type II Class 2	Steel per ASTM A-620	Yellow chromate over cadmium QQ-P-416 Type II Class 2
Insulator	Diallyl phthalate glass-filled per MIL-M-14, type SDG-F, color green	—	Diallyl phthalate glass-filled per MIL-M-14, type SDG-F, color green	—
Contact	Copper alloy	Gold over nickel	Copper alloy Crimp socket has stainless steel hood passivated.	Gold 50 microinches minimum thickness per MIL-G-45204 Type II Grade C Class 1 over copper per MIL-C-14550 Hood: Passivated
Float Mount Hardware	Stainless steel	Passivate per QQ-P-35	Stainless steel	Passivate per QQ-P-35

PERFORMANCE SPECIFICATIONS

Wire Accommodation (AWG)	Solder – #20 Max. Crimp – #18-#30 Max.
Current Rating	#20; 5 Amp
Temperature Rating	−65°C to +150°C
Contact Resistance After Salt Spray, Millivolt Max.	55 @ 7.5 Amp test current

See pages 339 and 340 for complete M24308 cross reference.

DIELECTRIC WITHSTANDING VOLTAGE

	90° and Straight (Solder/Crimp)			
	Altitude (feet/m)			
	Sea Level	**20,000/6,096**	**50,000/15,240**	**70,000/21,336**
Average Flashover	1700/1500	1000/1000	650/500	500/500
Test	1250/1000	750/650	475/325	375/325

All voltage figures are rms AC 60 rms cps, measured at approximately +25°C, 50% rh. For additional performance specifications refer to MIL-C-24308 Test Extracts on page 385.

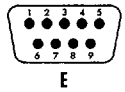
Non-Magnetic/No-Outgas Options

Suffix Code	Residual Magnetism	Shell Material (Finish)	Desired Results
NMB	200 Gamma Residual Magnetism Insulator. (Diallyl phtalate per MIL-M-14 type SDG-F, color white.)	Brass Shells Per QQ-B-613 (Yellow Chromate over Cadmium per QQ-P-416, Type II, Class 2.)	**Non-Magnetic No-Outgas**
NMB-K52	200 Gamma Residual Magnetism Insulator. (Diallyl phtalate per MIL-M-14 type SDG-F, color white.)	Brass Shells Per QQ-B-613 (Gold over Copper per MIL-G-45204, Type II, Grade C, Class 1 over copper per MIL-C-14550.)	**Non-Magnetic No-Outgas**

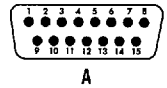
Note: Look for the ***NM*** symbol for ordering information.

Contact Arrangements

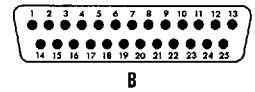
Face View Pin Insert



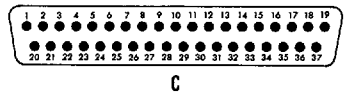
Shell Size	**E**
Contact Arrangement	**9**
Contact Size	**#20**



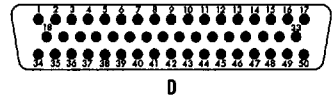
Shell Size	**A**
Contact Arrangement	**15**
Contact Size	**#20**



Shell Size	**B**
Contact Arrangement	**25**
Contact Size	**#20**

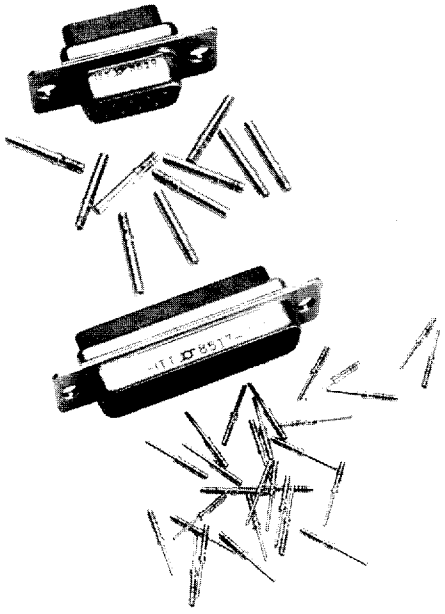


Shell Size	**C**
Contact Arrangement	**37**
Contact Size	**#20**



Shell Size	**D**
Contact Arrangement	**50**
Contact Size	**#20**

How to Order — Crimp Connectors (contacts are removable)



Receptacles (Includes Socket Contacts) With .120" Through-Mounting Holes

Number of Contacts (Shell Size)	Standard	Military Version	M24308 Cross Reference
9 (E)	DEMA9S	DEMAM9S	M24308/2-1
15 (A)	DAMA15S	DAMAM15S	M24308/2-2
25 (B)	DBMA25S	DBMAM25S	M24308/2-3
37 (C)	DCMA37S	DCMAM37S	M24308/2-4
50 (D)	DDMA50S	DDMAM50S	M24308/2-5

Plugs (Includes Pin Contacts)* With .120" Through Mounting Holes

Number of Contacts (Shell Size)	Standard	Military Version	M24308 Cross Reference
9 (E)	DEMA9P	DEMAM9P	M24308/4-1
15 (A)	DAMA15P	DAMAM15P	M24308/4-2
25 (B)	DBMA25P	DBMAM25P	M24308/4-3
37 (C)	DCMA37P	DCMAM37P	M24308/4-4
50 (D)	DDMA50P	DDMAM50P	M24308/4-5

To receive these connectors without contacts, add "FO" to end of part number.
Example: DBMA25SFO, DBMAM25SFO.

NM Non-Magnetic/No-Outgas – Add desired suffix code with desired option to end of part number.

Example: DEMA9PSNMB
DEMA9PSNMB-K52

Crimp Connectors without contacts, add FO to end of the part number and change K52 to K47.

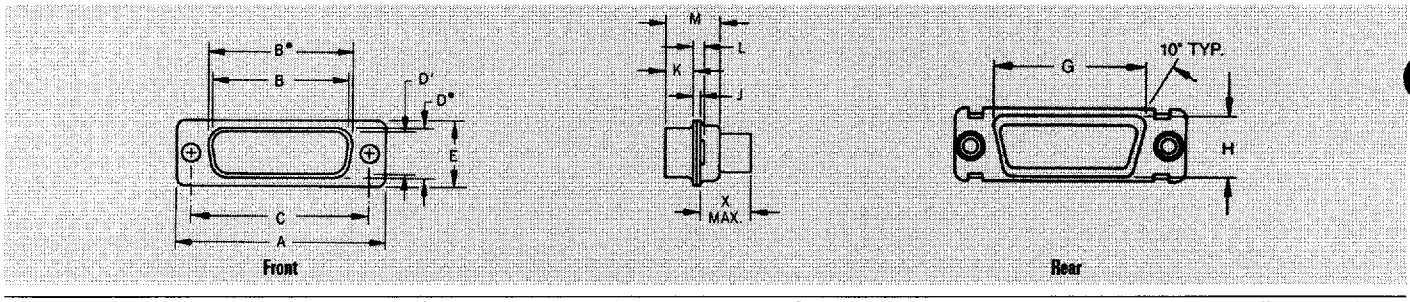
Assembly Instructions – Page 363

Performance Specifications – Page 332

Mounting Options Available:
4-40 Clinch Nut — Add "E" to Part Number After "M" or "A"
4-40 Float Mount — Add "Y" to Part Number After "M" or "A"
(Can be used in front or rear panel mount applications)

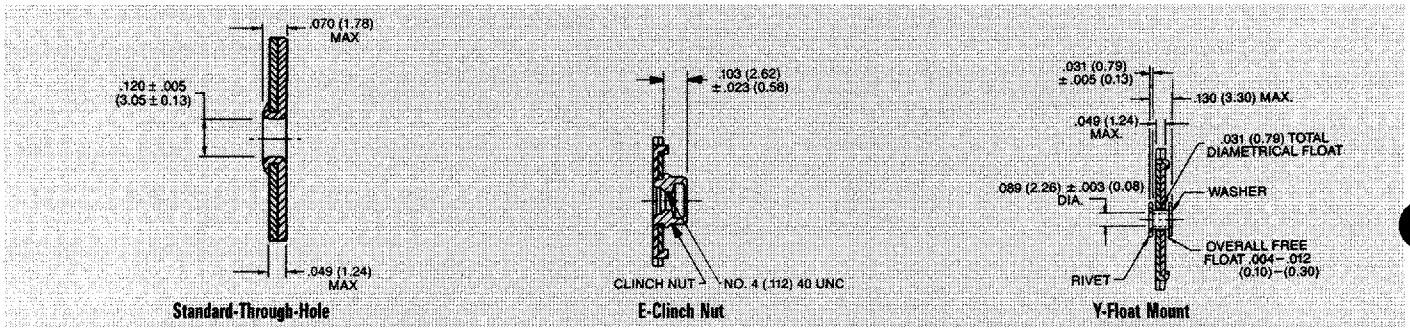
Example: DBMAE25S
DBMAME25S
DEMAY9P
DEMAMY9P

Dimensions — Crimp Connectors



Part Number by Shell Size	A ±.015 (0.38)	B• ±.005 (0.13)	B' ±.005 (0.13)	C ±.005 (0.13)	D• ±.005 (0.13)	D' ±.005 (0.13)	E ±.015 (0.38)	G ±.010 (0.25)	H ±.010 (0.25)	J ±.010 (0.25)	K ±.006 (0.15)	L ±.013 (0.33)	M ±.010 (0.25)	X Max
DEMA-9P	1.213 (30.81)	—	.666 (16.91)	.984 (24.99)	—	.329 (8.36)	.494 (12.55)	.759 (19.28)	.422 (10.72)	.030 (0.76)	.235 (5.97)	.048 (1.22)	.422 (10.72)	.345 (8.76)
DEMA-9S	1.213 (30.81)	.643 (16.33)	—	.984 (24.99)	.311 (7.90)	—	.494 (12.55)	.759 (19.28)	.422 (10.72)	.030 (0.76)	.243 (6.17)	.048 (1.22)	.429 (10.90)	.345 (8.76)
DAMA-15P	1.541 (39.14)	—	.994 (25.24)	1.312 (33.32)	—	.329 (8.36)	.494 (12.55)	1.083 (27.51)	.422 (10.72)	.030 (0.76)	.235 (5.97)	.048 (1.22)	.422 (10.72)	.345 (8.76)
DAMA-15S	1.541 (39.14)	.971 (24.66)	—	1.312 (33.32)	.311 (7.90)	—	.494 (12.55)	1.083 (27.51)	.422 (10.72)	.030 (0.76)	.243 (6.17)	.048 (1.22)	.429 (10.90)	.345 (8.76)
DBMA-25P	2.088 (53.03)	—	1.534 (38.96)	1.852 (47.04)	—	.329 (8.36)	.494 (12.55)	1.625 (41.27)	.422 (10.72)	.039 (0.99)	.230 (5.84)	.060 (1.52)	.426 (10.82)	.345 (8.76)
DBMA-25S	2.088 (53.03)	1.511 (38.38)	—	1.852 (47.04)	.311 (7.90)	—	.494 (12.55)	1.625 (41.27)	.422 (10.72)	.030 (0.76)	.243 (6.17)	.048 (1.22)	.429 (10.90)	.345 (8.76)
DCMA-37P	2.729 (69.31)	—	2.182 (55.42)	2.500 (63.50)	—	.329 (8.36)	.494 (12.55)	2.272 (57.71)	.422 (10.72)	.039 (0.99)	.230 (5.84)	.060 (1.52)	.426 (10.82)	.345 (8.76)
DCMA-37S	2.729 (69.31)	2.159 (54.84)	—	2.500 (63.50)	.311 (7.90)	—	.494 (12.55)	2.272 (57.71)	.422 (10.72)	.030 (0.76)	.243 (6.17)	.048 (1.22)	.429 (10.90)	.345 (8.76)
DDMA-50P	2.635 (66.92)	—	2.079 (52.81)	2.406 (61.11)	—	.441 (11.20)	.605 (15.37)	2.178 (55.32)	.534 (13.56)	.039 (0.99)	.230 (5.84)	.060 (1.52)	.426 (10.82)	.345 (8.76)
DDMA-50S	2.635 (66.92)	2.064 (52.43)	—	2.406 (61.11)	.423 (10.74)	—	.605 (15.37)	2.178 (55.32)	.534 (13.56)	.030 (0.76)	.243 (6.17)	.048 (1.22)	.429 (10.90)	.345 (8.76)

Mounting Option Dimensions – Crimp Components



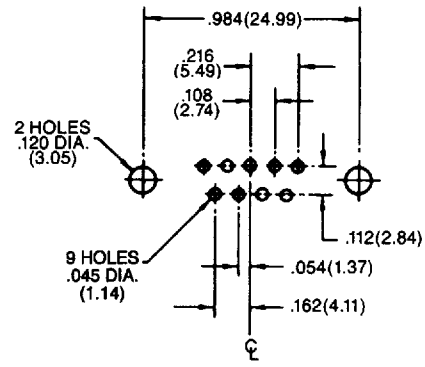
It is recommended that only one assembly, either pin or socket, be float mounted.

Dimensions are shown in inches (millimeters).
Dimensions subject to change.

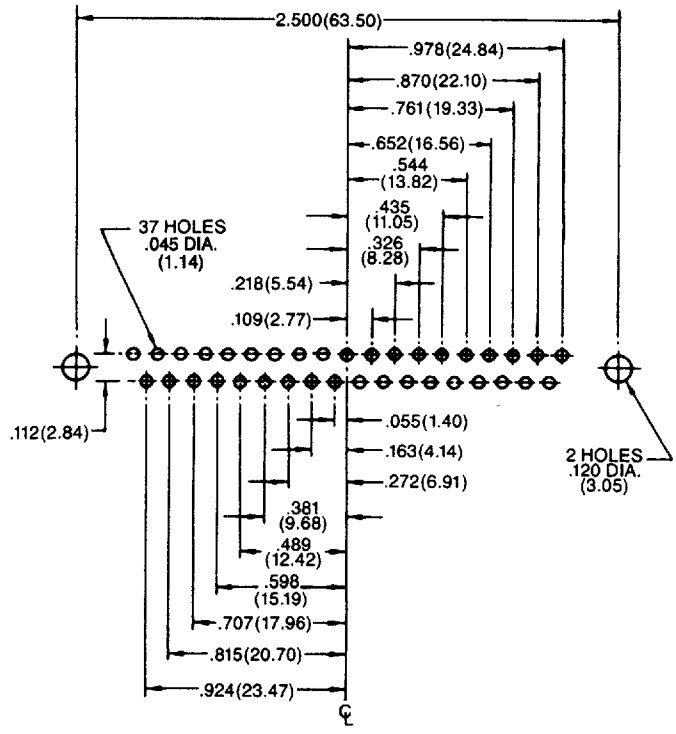
ITT Cannon

For technical assistance, price or delivery information, call your local technical sales office or distributor.

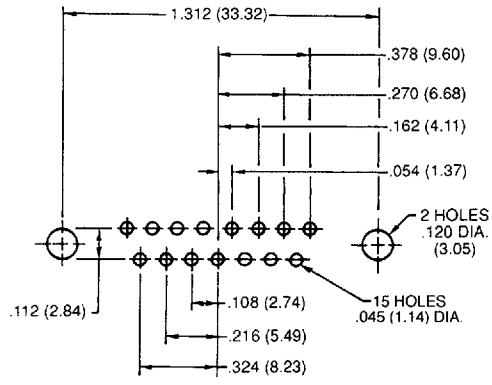
PC Board Hole Patterns



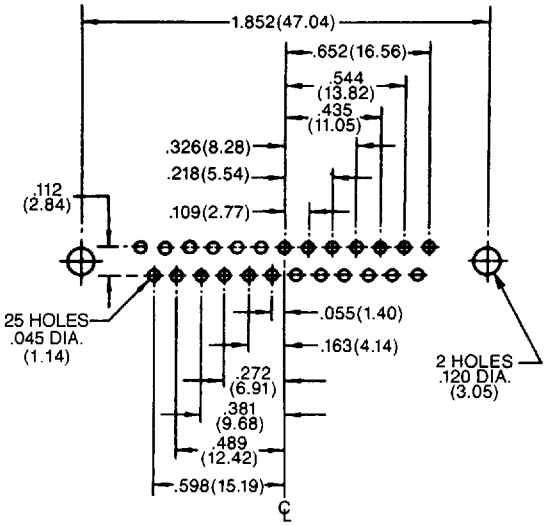
DE Size
9 Positions



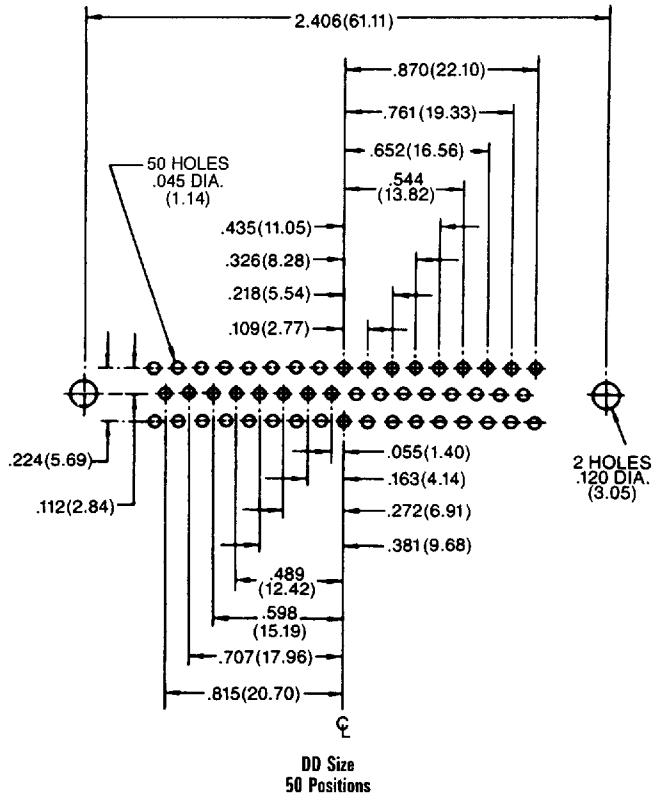
DC Size
37 Positions



DA Size
15 Positions



DB Size
25 Positions



DD Size
50 Positions

D Subminiature Connectors

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For technical assistance, price or delivery information, call your local technical sales office or distributor.

Dimensions are shown in inches (millimeters).
Dimensions subject to change.