COAX/HIGH VOLT/

HIGH POWER

DBM-17W2P

DDMA-78S-F0

D*MA Series Page 39

D*M Series Page 29

HIGH DENSITY

CONNECTOR SELECTION GUIDE (Continued)

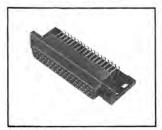
CONNECTORS FOR PRINTED CIRCUIT BOARDS

SHIELDED RIGHT ANGLE



EDBL25SBA1 ED* Series Page 17

PIN AND SOCKET RIGHT ANGLE



DDP-50SAA D*P Series Page 20

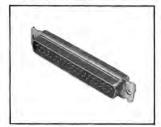
VERTICAL MOUNT



DBPF25 (P or S) Y4 D*PF Series Page 22

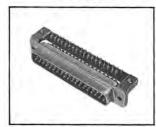
MILITARY/AEROSPACE

M24308 SOLDER CUP



DCMME37P D*M Series Page 29

M24308 PRINTED CIRCUIT



DCM-37PA D*M Series Page 29

M24308 CRIMP



DAMAM15P D*MA Series Page 39

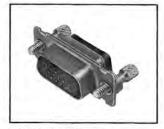
M24308 HERMETIC



D*H Series Phoenix

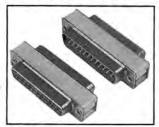
SPECIAL PURPOSE

DOUBLE-DENSITY



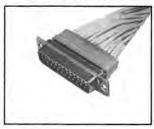
2D* Series Micro

CONNECTOR SAVER



DBBMA-25PS D*BMA Series Page 50

M24308 TYPE ENVIRONMENTAL



GDB-25P GD* Series Page 46

DIE-CAST ENVIRONMENTAL

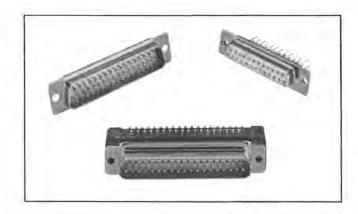


D*D Series Page 51

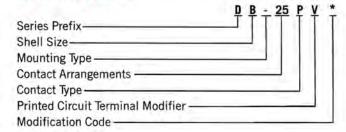


ORIGINAL-D

The Original-D, Cannon's low cost general-purpose D Subminiature, features solder cup, P.C., or wrap post contacts available in 9, 15, 25, 37, and 50 contact arrangements. Cannon's Original-D utilizes a rugged machined contact captivated in a two-piece insulator.



HOW TO ORDER



SERIES PREFIX

D

SHELL SIZE

E, A, B, C, D

MOUNTING TYPE

No designator - Standard .120 (3.05) diameter mounting hole

- E 4-40 clinch nut for rear panel mounting
- F Float mount for rear panel mounting
- K .154 (3.91) diameter mounting hole
- R Reverse float mount for front panel mounting
- Y Dual float mount for both front and rear panel mounting

CONTACT ARRANGEMENTS

9, 15, 25, 37, 50

CONTACT TYPE

P-Pin; S-Socket

PRINTED CIRCUIT TERMINAL MODIFIER

No designator-Solder cup contacts (standard)

- A Right angle, .040 (1.02) diameter terminals with bracket;
 .093 (2.36) extension below bracket
- C Same as A except less bracket
- H Straight P.C. .040 (1.02) diameter, .156 (3.96) extension
- U Straight P.C. .024 (0.61) diameter, .125 (3.17) extension
- V Straight P.C. .040 (1.02) diameter, .093 (2.35) extension

MODIFICATION CODE

Wire Wrapping Applications

F179 — .024 (0.61) sq post, .375 (9.52) extension

F179A-.024 (0.61) sq post, .500 (12.70) extension

C53-UL 94V-O rated polyamide insulator, color black

See pg. 66 for additional modifications

STANDARD DATA

MATERIALS AND FINISHES

	Material	Finish
Shell	Steel	Yellow chromate over cadmium
Insulator	Two piece white nylon	
Contacts	Copper alloy	Gold over nickel
Float Mount Hardware	Stainless steel	Passivated

MECHANICAL FEATURES

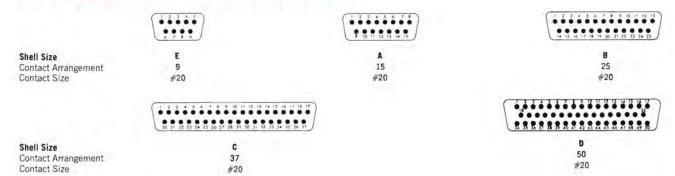
Coupling — Friction and lock accessories Polarization — Keystone-shaped shells

PERFORMANCE SPECIFICATIONS

Temperature Rating— - 55 °C to + 120 °C
Dielectric Withstanding Voltage— 1250 VAC sea level
Wire/Contact Size—#20 AWG
Current Rating—#20 contact 5 Amps



CONTACT ARRANGEMENTS (Face View Pin Insert)

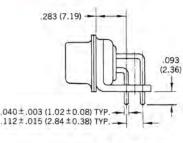


PRINTED CIRCUIT APPLICATIONS RIGHT ANGLE 90° TERMINAL

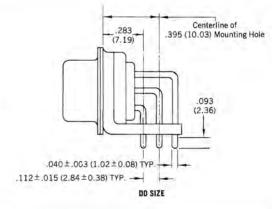
Connectors are furnished with or without a bracket.

Part Number Printed Circuit Terminal Modifier	90 ° Bracket
A	Yes
C	No

Example: DE-9PA, see page 4 for ordering nomenclature.



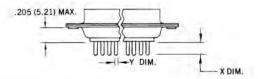
DE, DA, DB, DC SIZES



STRAIGHT TERMINAL

Part Number Printed Circuit Terminal Modifier	X Nominal	γ ±.003 (±0.08)
Н	.156 (3.96)	.040 (1.02)
U	.125 (3.18)	.024 (0.61)
V	.093 (2.36)	.040 (1.02)

Example: DE-9PV, see page 4 for ordering nomenclature.

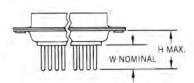


WIRE WRAPPING APPLICATIONS

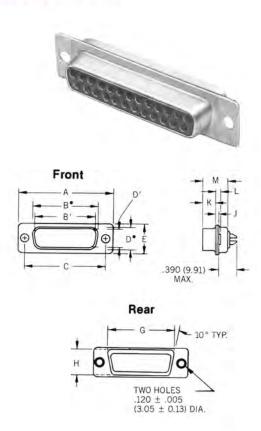
Modification Code	Н	W	Wrap Accommodations
F179	.587 (14.91)	.375 (9.52)	2
F179A	.713 (18.11)	.500 (12.7)	3

.024 (0.61) square contact tails will accommodate #28 or #30 AWG rigid wire (diagonal of square is .034/.031 (0.86/0.79).

Example: DE-9P-F179A. See page 4 for ordering nomenclature.



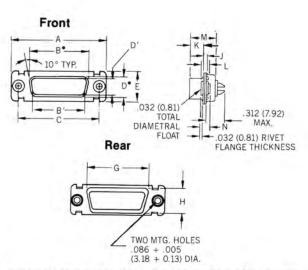
STANDARD SHELL



SHELL WITH FLOAT MOUNTS

(For shell with float mounts add letter F: e.g., DEF9P)





It is recommended that only one assembly, either pin or socket, be float mounted. For front panel mounting use reverse float mount; see page 65.

INCHES

TOTILS														
Part Number by Shell Size	±.015	B• ±.010	B' ±.010	£.005	D• ±.010	D' ±.010	£ .015	G. ±.010	H• ±.010	±.010	±.010	±.010	M ±.015	± .010
DE-9P	1,213	-	.666	.984	-	.329	.494	.759	.422	030	.236	.045	.422	120
DE-9S	1.213	.640	_	.984	.308	-	.494	.759	.422	.030	.243	.045	.429	.120
DA-15P	1.541	-	.994	1.312	-	.329	.494	1.083	.422	.030	.236	.045	.422	.120
DA-15S	1.541	.968	-	1.312	.308	-	.494	1.083	.422	.030	.243	.045	.429	.120
DB-25P	2.088	-	1.534	1.852	-	329	.494	1.625	.422	.039	.231	.060	.426	129
DB-25S	2.088	1.508		1.852	:308	=	.494	1.625	.422	.030	.243	.045	.429	.120
DC-37P	2.729	-	2.182	2,500	-	.329	494	2.272	.422	.039	231	.060	426	129
DC-37S	2.729	2.156	_	2.500	.308		.494	2.272	.422	.030	.243	.045	.429	.120
DD-50P	2.635		2.079	2.406	-	.436	.605	2.178	.534	.039	.231	.060	.426	.129
DD-50S	2,635	2.062	_	2.406	_420	_	.605	2.178	.534	.030	.243	.045	.429	.120

MILLIMETERS

Part Number by Shell Size	A ± 0.38	B• ± 0.25	B' ± 0.25	C ± 0.12	D• ±0.25	D' ± 0.25	£ ±0.38	G• ±0.25	H• ± 0.25	± 0.25	K ± 0.25	L ± 0.25	M ± 0.38	N ± 0.25
DE-9P	30.81	-	16.91	24.99	-	8.36	12.55	19.28	10.72	0.76	5.99	1.14	10:72	3.05
DE-9S	30.81	16.25		24.99	7.82		12.55	19.28	10.72	0.76	6.17	1.14	10.90	3.05
DA-15P	39.14	-	25.24	33.32	-	8.36	12.55	27.51	10.72	0.76	5.99	1.14	10.72	3.05
DA-15S	39.14	24.58	-	33.32	7.82	-	12.55	27.51	10.72	0.76	6.17	1.14	10.90	3.05
DB-25P	53.03	+	38.96	47.04	-	8.36	12.55	41.27	10.72	0.99	5.87	1.52	10.82	3.28
DB-25S	53.03	38.30	-	47.04	7.82	-	12.55	41.27	10.72	0.76	6.17	1.14	10.90	3.05
DC-37P	69.31	-	55.42	63.50	-	8.36	12.55	57.71	10.72	0.99	5.87	1.52	10.82	3.28
DC-37S	69.31	54.76	-	63.50	7.82		12.55	57.71	10.72	0.76	6.17	1.14	10.90	3.05
DD-50P	66.92	-	52.81	61.11	-	11.07	15.37	55.32	13.56	0.99	5.87	1.52	10.82	3.28
DD-50S	66.92	52.37		61.11	10.67	-	15.37	55.32	13.56	0.76	6.17	1.14	10.90	3.05

[•] Dimensions B, D, G, and H are measured as outside dimensions at the bottom of draw.

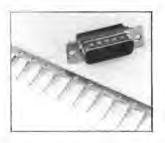
NOTE: B • and D • are the O.D. dims. for socket side, B' and D' are the I.D. dims. for pin side.

BURGUN-D D*C/D*U

The BURGUN-D Series, Cannon's low cost crimp-type D Subminiature, offers both machined and stamped contacts for crimp and printed circuit applications. Available in UL 94V-O material, the D*C/D*U Series features a snap-in, rear-release contact and is widely used for commercial cabling and P.C. board applications. For high volume crimp applications connectors are purchased less contacts (code "FO"), and stamped contacts on reels are purchased in bulk for use with Cannon's high-speed crimping equipment.







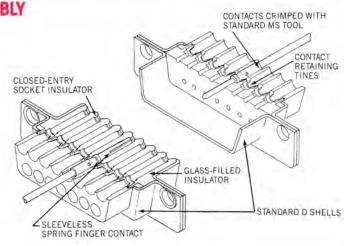
REAR RELEASE CONTACT RETENTION ASSEMBLY

The D*C and D*U connectors feature a rear insulator with integral, molded contact retaining tines. These plastic tines permit the insertion and extraction of contacts from the rear of the connector with a simple, expendable plastic insertion/extraction tool.

During contact insertion, the retaining tines expand as the contact passes thru. These rugged tines snap into place behind the contact shoulder when the contact is fully inserted. The tool is inserted to expand the tines, allowing easy extraction of the wired contact.

The retention system and the integral contact retaining tines guarantee functional reliability in many environments.

- . Mates with existing D types
- . Operates in temperatures to + 125 °C
- · Crimp snap-in contacts
- . Highly reliable socket contacts
- . Insertion/extraction with expendable tool
- . Corrects misaligned contacts



STANDARD DATA

MATERIALS AND FINISHES

	Material	Finish
Shell	Steel	Yellow chromate over cadmium
Insulator	D*C: Thermoplastic, Glass-filled, color red	
	D*U: UL 94V-O rated Thermoplastic, Glass-filled, color black	
Contacts		
Machined	Copper alloy	Gold over nickel
Stamped and Formed Crimp Type		Gold over nickel
Stamped and Formed P.C. Type	Copper alloy	Gold over nickel engaging end, tin/lead terminal end
Float Mount Hardware	Stainless Steel	Passivated

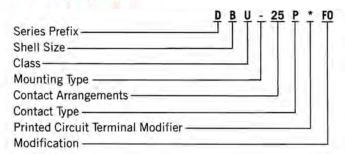
MECHANICAL FEATURES

Coupling—Friction and lock accessories Polarization—Keystone-shaped shells

PERFORMANCE SPECIFICATIONS

Wire Size—See contact ordering information. Current Rating—#20 contact, 5 Amps Voltage Rating—1000 VAC sea level Temperature Rating— -65°C to +125°C

HOW TO ORDER



SERIES PREFIX

D - ITT Cannon designation

SHELL SIZE

E, A, B, C and D

CLASS

C — Contact retaining tines, BURGUN-D insulator

U - Contact retaining tines, UL 94V-O rated black insulator

MOUNTING TYPE

No designator - standard .120 (3.05) diameter mounting holes

E - 4-40 clinch nut for rear panel mounting

- Float mount for rear panel mounting

K - .154 (3.91) diameter mounting hole

R - Reverse float mount for front panel mounting

Y - Dual float mount for both front and rear panel mounting

CONTACT ARRANGEMENTS

3, 5, 9, 15, 25, 37 and 50

CONTACT TYPE

P-Pin; S-Socket

PRINTED CIRCUIT TERMINAL MODIFIER

Right Angle Terminal

- AA Stamped contacts with bracket .030/.026 (0.76/0.66) dia. with .164/.149 (4.16/3.78) extension from bracket
- AD Machined contacts with bracket .026/.022 (0.66/0.56) dia. with .164/.149 (4.16/3.78) extension from bracket
- Stamped contacts with metal bracket -. 030/.026 (0.76/ 0.66) dia. with .164/.149 (4.16/3.78) extension from bracket

Straight Terminal

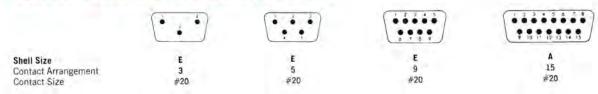
- BB Stamped contacts .030/.026 (0.76/0.66) dia. with .159/.129 (4.04/3.28) extension from rear of insulator
- Machined contacts .026/.022 (0.66/0.56) dia. with .159/.129 (4.04/3.28) extension from rear of insulator

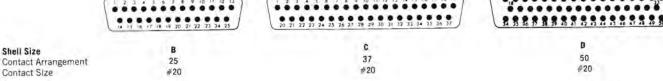
MODIFICATION

A197 - Tin plated shells

- Tin plated shells with grounding indents for EMI/RFI supression (pin connectors only)
- Connector less contacts (not stamped on connector) See page 66 for additional modifications.

CONTACT ARRANGEMENTS (Face View Pin Insert)



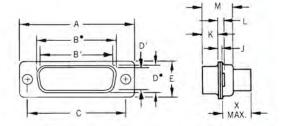


Shell Size

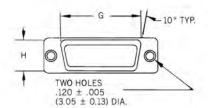


STANDARD SHELL





Front

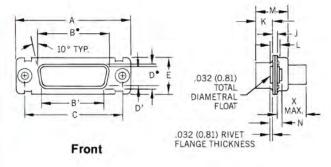


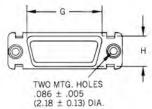
Rear

SHELL WITH FLOAT MOUNTS

(For shell with float mounts add letter F: e.g., DECF9P)







Rear

It is recommended that only one assembly, either pin or socket, be float mounted. For front panel mounting use reverse float mount; see page 65.

INCHES

Part Number by Shell Size	±.015	B• ±.010	B' ±.010	£.005	D• ±.010	D' ±.010	£ .015	G• ±.010	H• ±.010	±.010	K ±.010	L ±.010	M ±.015	N ±.010	X Max.
DEC-9P	1.213	7	.666	.984	-	.329	.494	.759	.422	.030	.236	.045	422	120	375
DEC-9S	1.213	.640	-	.984	.308	-	.494	.759	.422	.030	.243	.045	.429	.120	.375
DAC-15P	1.541	-	994	1.312	-	329	.494	1.083	422	030	.236	045	422	.120	375
DAC-15S	1.541	.968	_	1.312	.308	_	.494	1.083	.422	.030	.243	.045	.429	.120	.375
DBC-25P	2.088	-	1.534	1.852	-	.329	494	1.625	422	.039	.231	060	426	.129	.37.5
DBC-25S	2.088	1.508		1.852	.308	_	.494	1.625	.422	.030	.243	.045	.429	.120	.375
DCC-37P	2.729	-	2 182	2.500	. 2	.329	494	2.272	422	.039	.231	.060	.426	.129	.375
DCC-37S	2.729	2.156	_	2.500	.308	_	.494	2.272	.422	.030	.243	.045	.429	.120	.375
DDC-50P	2.635	-	2.079	2.406	=	436	.605	2.178	.534	.039	.231	.060	.426	.129	.375
DDC-50S	2.635	2.062	_	2.406	.420	_	.605	2.178	.534	.030	.243	.045	429	.120	.375

MILLIMETERS

Part Number by Shell Size	A ± 0.38	B• ±0.25	B' ± 0.25	C ±0.12	D• ± 0.25	D' ± 0.25	£ ± 0.38	G• ± 0.25	H• ±0.25	± 0.25	K ± 0.25	L ±0.25	M ±0.38	N ± 0.25	X Max.
DEC-9P	30.81	-	16.91	24.99	-	8.36	12.55	19.28	10.72	0.76	5.99	1.14	10.72	3.05	9.52
DEC-9S	30.81	16.25	-	24.99	7.82	-	12.55	19.28	10.72	0.76	6.17	1.14	10.90	3.05	9.52
DAC-15P	39.14	-	25.24	33.32	- 5	8.36	12.55	27.51	10.72	0.76	5.99	1.14	10.72	3.05	9.52
DAC-15S	39.14	24.58		33.32	7.82		12.55	27.51	10.72	0.76	6.17	1.14	10.90	3.05	9.52
DBC-25P	53.03		38.96	47.04	-	8.36	12.55	41.27	10.72	0.99	5.87	1.52	10.82	3.28	9.52
DBC-25S	53.03	38.30		47.04	7.82	_	12.55	41.27	10.72	0.76	6.17	1.14	10.90	3.05	9.52
DCC-37P	69.31	-	55.42	63.50	-	8.36	12.55	57.71	10.72	0.99	5.87	1.52	10.82	3.28	9.52
DCC-37S	69.31	54.76	-	63.50	7.82	_	12.55	57.71	10.72	0.76	6.17	1.14	10.90	3.05	9.52
DDC-50P	66.92	~	52.81	61.11	-	11.07	15.37	55.32	13.56	0.99	5.87	1.52	10.82	3.28	9.52
DDC-50S	66.92	52.37	_	61.11	10.67	_	15.37	55.32	13.56	0.76	6.17	1.14	10.90	3.05	9.52

[•] Dimensions B, D, G, and H are measured as outside dimensions at the bottom of the draw.

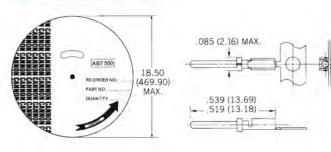
NOTE: B• and D• are the O.D. dims. for socket side, B' and D' are the I.D. dims. for pin side.

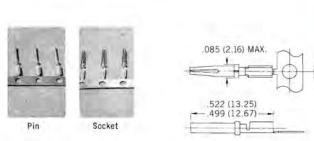


STAMPED CRIMP CONTACTS

Stamped contacts are furnished on reels for use with the semi-automatic crimp and strip/crimp machines. These contacts will accommodate wire sizes #18 thru #32 AWG stranded wire.

NON-INSULATION SUPPORT

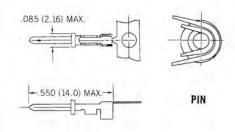


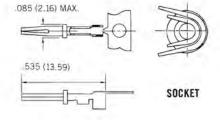


Contact		Contact P	Contacts			
Size	Wire Accommodation	Pin	Socket	Per Reel		
20-18	AWG #18 thru 22 (For AWG #24 consult factory)	D110238-165	D110238-166	7,500		
20	AWG #20 thru 28 (For AWG #30 consult factory)	D110238-34	D110238-35	10,000		

INSULATION SUPPORT

	Contact	Contact	
Wire Accommodation	Pin	Socket	Per Reel
AWG #22-# 26	J110238-428	D110238-434	7,500
AWG #28 thru #32	D110238-431	D110238-436	7,500





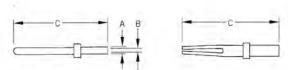
MACHINED CRIMP CONTACTS

Machined contacts are furnished loose piece for use with manual and semi-automatic machines.

NOTE for Size 20-18 contacts only: Shrink sleeving is suggested on the crimp pot to prevent contacts from touching.

Description	Part Number	Wire Accom- modation	A ±.002 (±0.05)	B ±.002 (±0,05)	C Max.
Pin 20	030-1952-000	20, 22, 24	.067(1.70)	.045(1.14)	.537(13.64)
Pin 20-18	030-1954-000	(1) 18 or (2) #22	.086(2.18)	.066(1.68)	.874(22.20)
Pin 20-26	030-1952-002	26, 28, 30	.067(1.70)	.025(0.63)	.537(13.64)
Socket 20	030-1953-000	20, 22, 24	.067(1.70)	.045(1.14)	.523(13,28)
Socket 20-18	030-1955-000	(1) 18 or (2) #22	.086(2.18)	.066(1.68)	.852(21.64)
Socket 20-26	030-1953-002	26, 28, 30	.067(1.70)	.025(0.63)	.523(13.28)





CONTACT CRIMPING

SEMI-AUTOMATIC TOOLING

Volume

Low/Medium

High Volume

Low Volume

High

Medium/High

A full range of manual to fully automatic crimp equipment is available from Cannon to meet all volume requirements.

Machined contact needs are met by Mil standard hand crimp tools for low volumes. For volume applications the CBT-491 is a pneumatically operated, vibra-bowl crimper offering a more economical approach than belt-fed contacts.

For low volume **stamped contact** applications CCT type hand tools deliver a reliable crimp with minimal expense. For higher volumes the pneumatically operated ABT-607 is available for lease. For maximum savings the ABT-500 stripper and crimper uses stamped reeled contacts and terminates in one easy operation. Our newest machine the ABT-620 is also designed for highest volume lowest installed cost applications. When you think crimp, think Cannon!

Contact Size

All

All

Tool

Part No.

CBT-565

CBT-491

CPT-D*C

ABT-607

ABT-500

ABT-620



995-0002-206 995-0002-207



CCT-D+C-1



CBT-491



ABT-620



ABT-500

HAND TOOLS

Contact

Machined

Stamped

Contact Type	Contact Size	Wire Accommodation	Hand Tool Part No.	Hand Tool Description
	20	20, 22, 24	995-0002-206	CCT-DCM-1
Machined	20	20, 22, 24	995-0002-207	CCT-DCM-2
	20-18	1 #18, 2 #22	995-0002-206	CCT-DCM-1
	20-26	26, 28, 30	995-0002-207	CCT-DCM-2
Chammad	20	20-28	995-0001-662	CCT-D*C-1
Stamped	20-18	18, 20, 2 #22	995-0001-870	CCT-D*C-4
Stamped Insulation Support	All	All	995-0002-107	CCT-D*C-10

Lease/

Purchase

Purchase

Both

Purchase

Lease

Lease

Lease



CPT-D+C



CBT-565

INSERTION/EXTRACTION TOOLS

Contact Type	Contact	Wire	Plastic Inserti	ion/Extraction	Metal Extraction		
	Size	Accommodation	Part No.	Description	Part No.	Description	
	20	20, 22, 24	274-7006-000	CIET-20HD	995-0001-695	CET-20D	
Machined	20-18	1 #18, 2 #22	274-5016-002	CET-20-15	995-0001-695	CET-20D	
	20-26	26,-28, 30	274-7006-000	CIET-20HD	995-0001-695	CET-20D	
Stamped	All	20-32	274-7006-000	CIET-20HD	995-0001-695	CET-20D	
Stamped	20-18	#18	Not Available		995-0001-695	CET-20D	



ABT-607



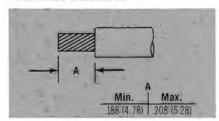
CET-20D



CIET-20HD

ASSEMBLY OF BURGUN-D D*C/D*U

WIRE STRIPPING— MACHINED CONTACTS



1. Cut wires to length. Strip insulation per above illustration. Check for broken or frayed wires.

CONTACT CRIMPING



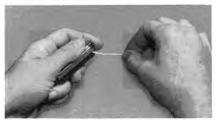
2. Insert contact and wire into proper crimp tool (and locator, if required). Crimp contact to wire. Inspect crimp.

CONTACT INSERTION



3. Center wired contact in groove of insertion tool with tool tip butting contact shoulder. Insert contact into cavity until a positive stop is felt. Inspect insertion

CONTACT EXTRACTION



4. To be sure contact is locked securely, pull back lightly on wire. Repeat for balance of contacts working row by row across the insulator.



5. Place wire into extraction tool tip.



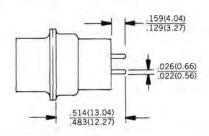
6. Insert tool tip into contact cavity until tip bottoms against contact shoulder, releasing tines. Hold wire against tool with finger and remove tool and contact. Repeat for balance of contacts.



STRAIGHT PRINTED CIRCUIT CONTACTS

MACHINED CONTACTS can be ordered either installed in the connector or connectors and contacts may be ordered separately.

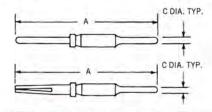
CODE BF: Connectors with contacts installed Typical Part No. DBU-25P-BF.



Part numbers for ordering contacts separately:

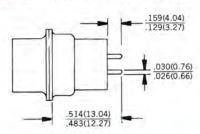
STRAIGHT MACHINED CONTACTS

	Contact Part Number	A ± .010 (± 0.25)	†C ± .002 (0.51) Dia. Type.
Pin	030-1989-000	.730 (18.5)	.024 (0.61)
Socket	030-1990-000	.710 (18.0)	.024 (0.61)



STAMPED CONTACTS are factory-installed in connectors and cannot be ordered separately.

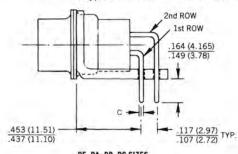
CODE BB: Typical Part Number: DBU-25S-BB



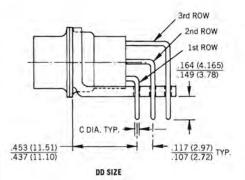
90° PRINTED CIRCUIT CONTACTS

MACHINED CONTACTS can be ordered either installed in connectors or in bulk.

CODE AD: Connectors with contacts installed and are supplied with plastic mounting bracket Typical Part Number: DBU-25S-AD





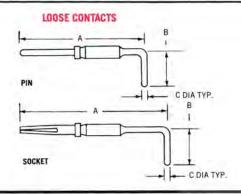


Plastic Bracket Dimensions and Material: See page 62 Board Layout: See page 63 Connectors are fully assembled

90° MACHINED CONTACTS

	Row	Contact Part Number	A	В	C ±.002(0.51 Dia. Typ.
Pin	1st	030-2086-000	.684(17.37)	.345(8.76)	.024(0.61)
*Pin	2nd	030-2087-000	.796(20.21)	.457(11.61)	.024(0.61)
**Pin	3rd	030-2088-000	.908(23.06)	.569(14.45)	.024(0.61)
Socket	1st	030-2089-000	.666(16.92)	.345(8.76)	.024(0.61)
*Socket	2nd	030-2090-000	.778(19.76)	.457(11.61)	.024(0.61)
**Socket	3rd	030-2091-000	.890(22.61)	.569(14.45)	.024(0.61)

^{*2}nd row for shell sizes E, A, B and C starting from cavity 1.
**3rd row for shell size D only, starting from cavity 1.





90° PRINTED CIRCUIT CONTACTS (CON'T)

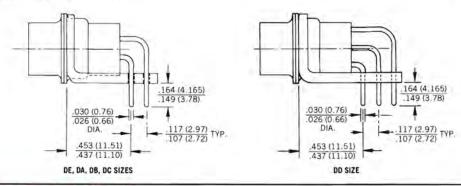
STAMPED CONTACTS are factory installed in connectors and cannot be ordered separately.

CODE AA: PLASTIC BRACKET

Connectors come with contacts installed and are supplied with plastic mounting bracket.

Typical Part Number: DCU-37P-AA

Board Layout: See page 63 Bracket Dimensions and Material: See page 62



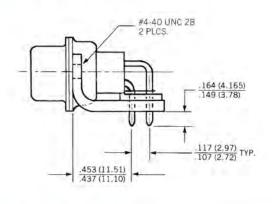
CODE AA-F202: METAL BRACKET

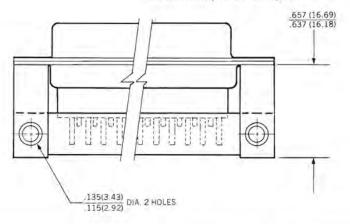
Connectors come with contacts installed and are supplied with a metal bracket.

Timing Bart Number, DALL 155, AA 5202

Typical Part Number: DAU-15S-AA-F202.

Bracket Material: Zinc, tin-plated Board Layout: See page 63 Consult factory for DD-50 layout



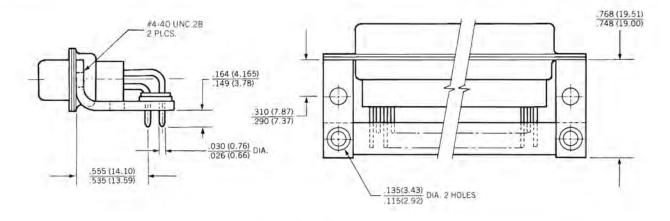


CODE CA: METAL BRACKET

Connectors come with contacts installed and are supplied with metal bracket,

Typical Part Number: DEU-9P-CA

Bracket Material: Zinc, tin-plated Board Layout: See page 63 Consult factory for DD-50 layout





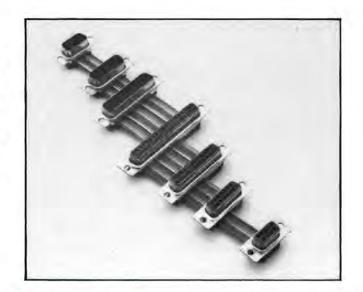
SPEEDY D SERIES

ITT Cannon has developed the Speedy D to allow reliable, fast, and economical termination of #26 and #28 AWG ribbon cable with .050 (1.27) centers. These connectors are available with 9, 15, 25, and 37 contacts and are intermateable with all D Subminiature connectors.

Termination is accomplished by inserting the cable into the integral cable locator/termination cap, and pressing the cap into place.

Speedy-D connectors will also accommodate daisy-chain applications.

- . No splitting of ribbon cable
- · Optional strain relief
- Metal shell
- · Integral termination cap
- · Low profile



HOW TO ORDER

Series Prefix —	D B SF - 9 P
Shell Size	
Class	
Mounting Method —	
Contact Arrangement —	
Contact Type —	
Modification —	

CONTACT TYPE

P - Pin S - Socket

MODIFICATION

A197 - Tin plated shell

availability)

K87 - Tin plated shell with

- All plastic construction

(consult factory for

grounding indents for

EMI/RFI protection

SERIES PREFIX

D - ITT Cannon Designation

SHELL SIZE

E - 9 contacts

A - 15 contacts

B - 25 contacts C - 37 contacts

CLASS

SF - V-Crimp

MOUNTING METHOD

Without designation

two through-holes

.120 (3.05mm)

Y - Float mounting

CONTACT ARRANGEMENTS

9, 15, 25, 37 contacts

STANDARD DATA

MATERIALS AND FINISHES

	Material	Finish
Shell	Steel	Yellow chromate coat over zinc
Insulator	Polyester G.F., Black, UL94V-O rated	
Contacts	Copper alloy (CuBe)	Contact area gold-plated on nickel termination area tinned other finishes upon request.

MECHANICAL FEATURES

Coupling-Friction, accessories

Polarization - Keystone shaped shells

Termination-IDC

Wire Size - AWG 26-28, stranded or solid

Cable-Ribbon cable, conductor spacing .050 (1.27)

PERFORMANCE SPECIFICATIONS

Current Rating-1 Amp

Operating Voltage - 750 V rms

Insulation Resistance-1000 megohms, min.

Contact Resistance - 15 milliohms, max.

ACCESSORIES

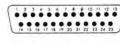
Shell Size	Strain Relief
E	029-8757-009
A	029-8757-015
В	029-8757-025
C	029-8757-037

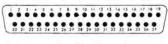
CONTACT ARRANGEMENTS (Face View Pin Insert)



E
9
#20







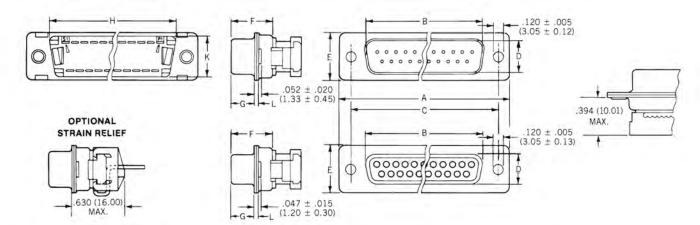
Shell Size Contact Arrangement Contact Size

15 #20

25 #20

37 #20

DIMENSIONAL DATA



INCHES

Part Number by Shell Size	±.015	B ±.005	£.005	D ±.005	£ .015	£.010	£.010	H ±.010	±.005	±.010
DESF-9P	1.213	.666	.984	.329	.494	422	.235	.759	.433	.030
DESF-9S	1.213	.643	.984	.311	.494	.429	.243	.759	.433	.030
DASF-15P	1.541	.994	1.312	.329	.494	.422	.235	1.083	.433	.030
DASF-15S	1.541	.971	1.312	.311	.494	.429	.243	1.083	.433	.030
DBSF-25P	2,088	1.534	1.852	.329	.494	.426	.235	1.625	.433	.039
DBSF-25S	2.088	1.509	1.852	.311	.494	.429	.243	1.625	.433	.030
DCSF-37P	2.729	2.182	2.500	.329	.494	.426	.235	2.272	.433	.039
DCSF-37S	2.729	2.159	2.500	.311	.494	.429	.243	2.272	.433	.030

MILLIMETERS

Part Number by Shell Size	± 0.38	B ±0.12	± 0.12	± 0.12	£ 0.38	£ 0.25	€ ± 0.25	H ± 0.25	± 0.12	± 0.25
DESF-9P	30.81	16.91	24.99	8.35	12.55	10.71	5.97	19.27	11.0	0.76
DESF-9S	30.81	16.33	24.99	7.90	12.55	10.89	6.17	19.27	11.0	0.76
DASF-15P	39.14	25:24	33.32	8.35	12.55	10.71	5.97	27.50	11.0	0.76
DASF-15S	39.14	24.66	33.32	7.90	12.55	10.89	6.17	27.50	11.0	0.76
DBSF-25P	53.03	38.96	47.04	8.35	12.55	10.82	5.97	41.27	11.0	0.99
DBSF-25S	53.03	38.33	47.04	7.90	12.55	10.89	6.17	41.27	11.0	0.76
DCSF-37P	69.32	55.42	63.50	8.35	12.55	10.82	5.97	57.70	11.0	0.99
DCSF-37S	69.32	54.48	63.50	7.90	12.55	10.89	6.17	57.70	11.0	0.76

TERMINATION TOOLING

Speedy-D connectors can be terminated by hand or pneumatic presses. Connectors are placed into locator block in a pre-assembled, pre-loaded condition which makes handling fast and simple. A pneumatically operated version is available to ease operator fatigue on higher volume production.

SPEEDY-D TOOLING



Hand Termination Press Description: CHP-420 Part No.: 121086-0041 Locator Die: 121086-1620 Pneumatic Press
Description: CPP-460
Part No.: Consult Factory
Locator Die: 121086-1620



D SUBMINIATURE RECTANGULAR CONNECTORS

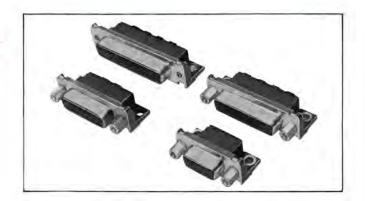


ED*SERIES

SHIELDED RIGHT ANGLE RECEPTACLES FOR P.C.B. MOUNTING

The ED*Series, Cannon's low cost shielded printed circuit board connector, offers proven design advantages:

- Metal shell and integral ground strap comply with EMI/RFI requirements.
- Short .318 (8.08) body length saves space.
- Eyelet mounting version eliminates extra hardware — speeds installation.



STANDARD DATA MATERIALS AND FINISHES

	Material	Finish
Housing	Polyester, glass filled, UL 94V-0 rated	Black
Contacts	Phosphor bronze	Selective gold (.000015 min.) on mating end over nickel (.000050 min.), tin/lead on termination end (standard).
Shell Grounding	Steel	Tin-lead
Eyelet	Brass	Tin-lead

MECHANICAL FEATURES

Coupling — Friction and lock accessories Polarization — Keystone-shaped shells

PERFORMANCE SPECIFICATIONS

Dielectric Withstanding Voltage — 1000 VAC sea level Operating Temperature — $-65\,^{\circ}\text{C}$ to $+125\,^{\circ}\text{C}$ Current — 3 Amps max.

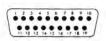
HOW TO ORDER

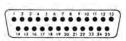
	Part Number								
Contact Arrangement	Standard .130 (3.30) Dia. 1	Thru Holes for PCB Mounting	Optional Extended Eyelet for PCB Mounting						
	Flange Mount Holes with Threaded Inserts	Flange Mount Holes with Female Screwlocks	Flange Mount Holes with Threaded Inserts	Flange Mount Holes with Female Screwlocks					
9	EDEL9SBA1	EDEM9SBA1	EDEL9SBA2	EDEM9SBA2					
15	EDAL15SBA1	EDAM15SBA1	EDAL15SBA2	EDAM15SBA2					
19	EDGL19SBA1	EDGM19SBA1	EDGL19SBA2	EDGM19SBA2					
25	EDBL25SBA1	EDBM25SBA1	EDBL25SBA2	EDBM25					

CONTACT ARRANGEMENTS (Face View Pin Insert)









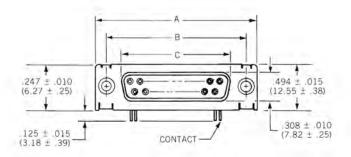
EDE-9

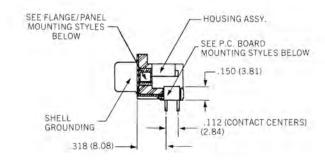
EDA-15

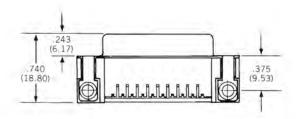
EDG-19

EDB-25

SHELL DIMENSIONS

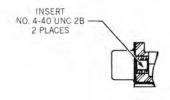




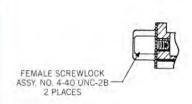


		INCHES			MILLIM		
Shell Size	Basic Part Number	A ± .015	B ± .005	C ± .005	A ± 0.38	B ± 0.13	C ± 0.13
DE	EDE-9	1.213	984	643	30.81	24.99	16.33
DA	EDA-15	1.541	1,312	.971	39.14	33.32	24.66
DG	EDG-19	1.761	1.525	1.184	44.73	38.74	30.07
DB	EDB-25	2.088	1.852	1.511	53.04	47.04	38.38

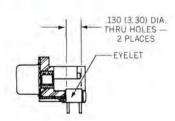
FLANGE/PANEL MOUNTING STYLES THREADED INSERTS



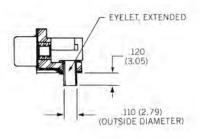
FEMALE SCREW LOCKS



P.C. BOARD MOUNTING STYLES STANDARD .130 (3.30) DIA. THROUGH HOLES



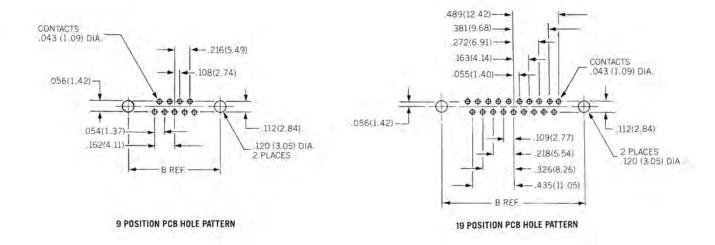
EYELET MOUNTING STYLE

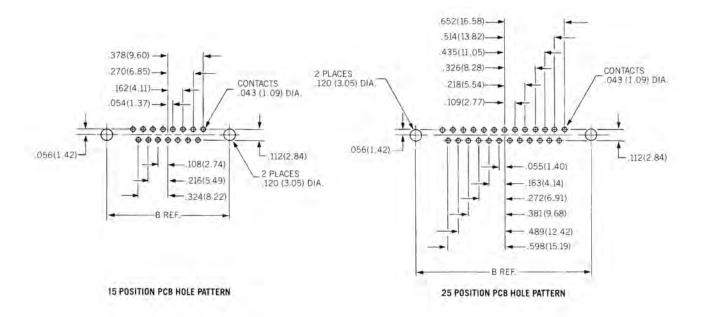






PC BOARD PATTERNS





Recommended board thickness is .093 (2.36) max. Recommended printed circuit board hole size is .041 (1.04) See page 64 for panel cutouts.



PLASTIC 90 ° D*P A UNIVERSAL LOW COST RIGHT-ANGLE CONNECTOR FOR PRINTED CIRCUIT BOARDS.

90° D*P right-angle printed circuit board connectors are ideal for telecommunications, computer, industrial control and other applications that require low cost and high performance. Made from a flame retardant, U.L. listed, glass filled thermoplastic, the D*P can be mounted directly over printed circuit patterns without causing short circuiting. The D*P can be used to replace any D Subminiature-type 90° printed circuit connector without redrilling the circuit boards or requiring extra hardware.

The D*P is fully intermateable with all D Subminiature connectors.

90° D*P connectors are available in pin and socket versions, with a choice of five contact arrangements accommodating stamped and formed non-removable contacts. Design them into your next product for high performance at a low price.



STANDARD DATA

MATERIALS AND FINISHES

	Materials	Finishes
Housing/Retainer	Glass-filled thermoplastic, UL 94V-O rated, black	
Contacts	Copper alloy, stamped	Engaging End: Gold over nickel electroplate Termination End: Tin/Lead electroplate

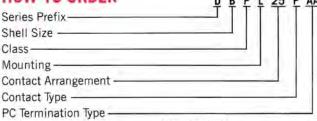
MECHANICAL FEATURES

Coupling-Friction. Polarization-Keystone shape. Contact Type-Captivated. Contact Termination-Solder.

PERFORMANCE SPECIFICATIONS

Current Rating-3 Amps Dielectric Withstanding Voltage-600 VAC sea level. Insulation Resistance-1000 megohms minimum. Temperature Range - - 55°C to + 125°C

HOW TO ORDER



SERIES

D Subminiature

SHELL SIZES

E, A, B, C, D

CLASS

P - UL listed flame retardant thermoplastic

MOUNTING

L - 4-40 threaded inserts installed in mounting holes

M - 4-40 female screw locks installed in mounting holes

(Mounting Con't)

dash (no designator), standard .120 (3.05) dia, mounting holes

CONTACT ARRANGEMENTS

9, 15, 25, 37, 50*

CONTACT TYPE

P — Pin S — Socket

PC TERMINATION TYPE

AA— 90°, .478 (12.14) length CA— 90°, .590 (14.99) length

*DDP-50 Available in AA type only.

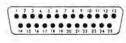
CONTACT ARRANGEMENTS

Shell Size Contact Arrangement Contact Size

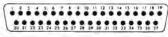




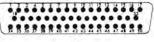




25 #20

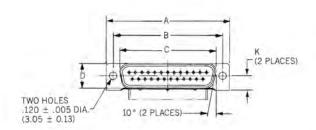


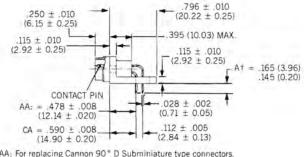




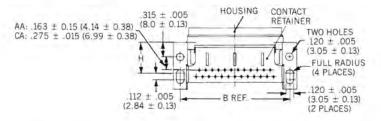
50 #20

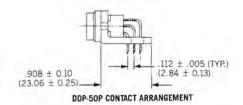
PIN CONNECTOR



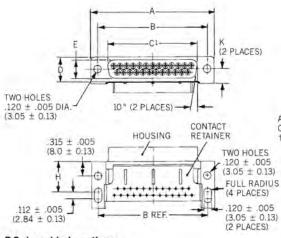


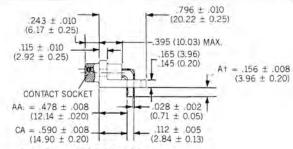
AA: For replacing Cannon 90 ° D Subminiature type connectors, CA: For replacing other 90 ° PCB connectors.
† For other contact extensions, consult factory.





SOCKET CONNECTOR





AA: For replacing Cannon 90 ° D Subminiature type connectors CA: For replacing other 90 ° PCB connectors. † For other contact extensions, consult factory.



See page 63 for P.C. board hole patterns.

	Inche	s							Millin	neters						
Part Number by Shell Size	A ±.015	B ±.005	C ±.010	C' ± .005	D ±,015	E ± 005	H ±.005	±.010	A ±0.38	B ±0.13	C ±0.25	C' ±0.13	D ±0.38	E ±0.13	H ±0.13	K ±0.25
DEP-9P*	1.213	.984	752	-	.419	-	.523	.245	30.81	24.99	19.10	4	10.64	-	13.28	6.22
DEP-9S*	1.213	.984	-	643	.419	.311	.523	,245	30.81	24.99	_	16.33	10.64	7.90	13.28	6.22
DAP-15P*	1.543	1.312	1.080	-	419	-	.523	,245	39.19	39.19	27.43	-	10.64	-	13.28	6.22
DAP-15S*	1.543	1.312	_	971	.419	.311	.523	,245	39.19	39.19	-	24.66	10.64	7.90	13.28	6.22
DBP-25P*	2.085	1.852	1.620	-	419	-	.523	245	52.96	47.04	41.15	-	10.64	-	13.28	6.22
DBP-25S*	2.085	1.852	_	1,511	.419	.311	.523	.245	52.96	47.04		38.38	10.64	7.90	13.28	6.22
DCP-37P*	2.729	2.500	2.268	-	419	-	.523	245	69.32	63.50	57.61	-	10.64		13.28	6.22
DCP-37S*	2.729	2.500		2.159	.419	.311	.523	.245	69.32	63.50	-	54.84	10.64	7.90	13.28	6.22
DDP-50P*	2.635	2.408	2 168		.525	-	558	300	66.93	61.11	55,07	-	13.34	-	14.17	7.62
DDP-50S*	2.635	2.406	_	2.064	.525	.423	.558	.300	66.93	61.11	_	52.43	13.34	10.74	14.17	7.62

^{*}Add PC Termination Type



D* PF SERIES

D*PF all plastic printed circuit board connectors are ideal for telecommunication, computer, and other applications requiring low cost, high performance connectors. They are intermateable with all D Subminiature connectors and can replace any D Subminiature PC connector.

- · Low profile
- · Tin dipped PC tails
- . UL94V-0 insulator material



STANDARD DATA

MATERIALS AND FINISHES

Shell/Insulator	Glass-reinforced thermoplastic, UL rated 94V-0
Contacts	Copper alloy, selective plated: gold on contact area with tinned terminations

MECHANICAL FEATURES

Coupling—Friction

Polarization—Keystone shape

Contact type—Captive

Contact terminations — Printed circuit tails and wrap post terminations — Crimp contacts

ELECTRICAL DATA

Current Rating-3A

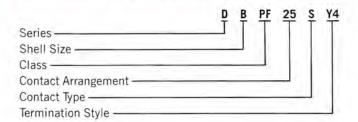
Dielectric withstanding voltage-600V

Insulation resistance-≥ 1000 M Ω

Temperature range - - 25 °C to +85 °C

Contact resistance-≤15 m Q

ORDERING INFORMATION



SERIES

D - ITT Cannon designation

SHELL SIZE

E - 9 contacts

A - 15 contacts

B - 25 contacts

C — 37 contacts

D — 50 contacts

CLASS

PF — All plastic

CONTACT ARRANGEMENTS

9, 15, 25, 37, 50 contacts

CONTACT TYPE

P-Pin

S — Socket

TERMINATION STYLE

K3 - 3 wrap termination .024 (0.60) square; .500 (12.70) ext

Y4 — Straight P.C. termination

V6 - 90° P.C. termination

Y44 — Straight P.C. termination with .440 (11.18) threaded inserts and board standoff

Y47 — Straight P.C. termination with female screw-locks #4-40 UNC 2B

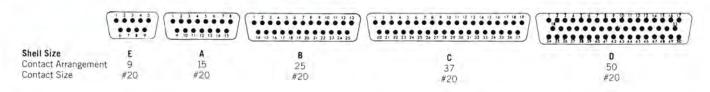
Y48 - With 2 plastic spacers

V62 — 90° P.C. termination with female screw-locks #4-40

UNC 2B

CA - 90° 25s only .318 (8.08) foot print

CONTACT ARRANGEMENTS (Face View Pin Insert)

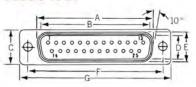


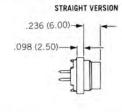


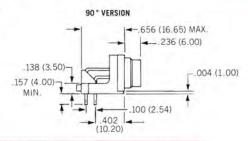
D SUBMINIATURE RECTANGULAR CONNECTORS

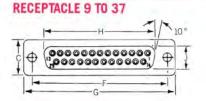


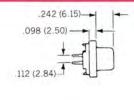


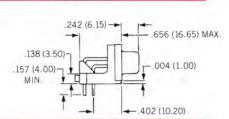


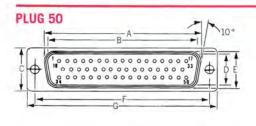


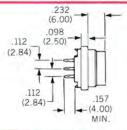


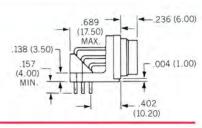




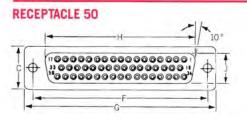


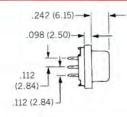


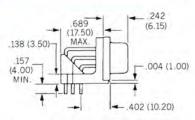












INCHES

N.B.: It is not recommended to mate p.c. connectors before they are soldered to the p.c. board.

Part Number by Shell Size	Α	В	C	D	E	F	G	н	1	N	P
DEPF-9P*	.742	.663	488	327	.406	.984	1.206	-	=	433	.765
DEPF-9S*	_	_	.488	-	_	.984	1.206	.656	.319	.433	.765
DAPF-15P*	1.071	.992	.488	.327	.406	1.312	1.530	-	-	433	1.093
DAPF-15S*	_	_	.488		_	1.312	1.530	.984	.319	.433	1.093
DBPF-25P*	1.610	1.531	.488	.327	406	1.852	2.078	-	~	433	1.634
DBPF-25S*	_	_	.488	-	-	1.852	2.078	1.524	.319	.433	1.634
DCPF-37P*	2.258	2.179	.488	.327	.406	2.500	2.730	-	-	433	2.282
DCPF-37S*	_	_	.488	_	_	2.500	2.730	2.171	.319	.433	2.282
DDPF-50P*	2.156	2.077	600	.433	.512	2.406	2.630	-	-	543	2.188
DDPF-50S*	_	_	.600	-	_	2.406	2.630	2.069	.425	-543	2.188

MILLIMETERS

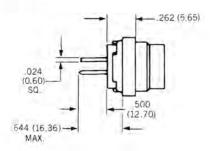
Part Number by Shell Size	Α	В	С	D	E	F	G	н	J	N	P
DEPF-9P*	18.85	16.85	12.40	8.30	10.30	25.00	30.64	-		11.00	19.44
DEPF-9S*		-	12.40	-	-	25.00	30.64	16.65	8.10	11.00	19.44
DAPF-15P*	27.20	25.20	12.40	8.30	10.30	33.32	38.86	-	-	11.00	27.77
DAPF-15S*	-	-	12.40	-	_	33.32	38.86	25.00	8.10	11.00	27.77
DBPF-25P*	40.90	38.90	12.40	8.30	10.30	47.04	52.78	-	-	11.00	41.51
DBPF-25S*	_	_	12.40		_	47.04	52.78	38.70	8.10	11.00	41.51
DCPF-37P*	57.35	55.35	12.40	8.30	10.30	63.50	69.34	-	-	11.00	57.97
DCPF-37S*	_	-	12.40	_	-	63.50	69.34	55.15	8.10	11.00	57.97
DCPF-50P*	54.75	52,75	15.25	11.00	13.00	61.11	66.80		-	13.80	55.58
DCPF-50S*	_	_	15.25	_	_	61.11	66.80	52.55	10.80	13.80	55,58

^{*} Add Termination Style

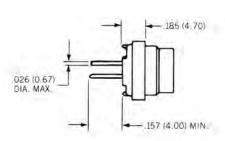
TTT CANNON

TERMINATION TYPE

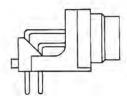
КЗ



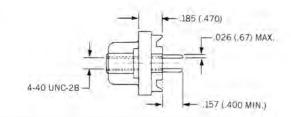
Y4



V6

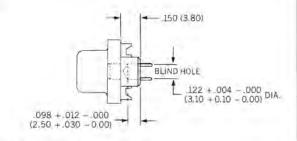


Y47



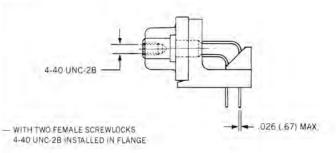
- WITH TWO FEMALE SCREWLOCKS 4-40 LINC-28 INSTALLED IN FLANGE

Y48



- WITH TWO PLASTIC SPACERS

V62



SHIELDED-D

Silence! Brought to you by ITT Cannon Shielded D Subminiature Series connectors. Designed to meet even the most stringent EMI/RFI requirements, including FCC Docket 20780 for all electronic equipment that generates signals from 10 kHz to 1000 MHZ.

ITT Cannon offers a variety of D Subminiature connectors and accessories to meet virtually all shielding requirements:

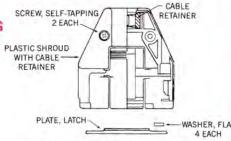
- Shielded/Shrouded Backshells feature a brass shield, plastic shroud and latching mechanism. Ordering information is shown below.
- Plated Plastic Backshells offer 50° cable exit for reduced clearance requirements. Ordering information is shown on page 28.
- Die Cast RFI Backshells are rugged with aluminum straight and 90° cable exits, intended for applications where strength and durability are prime considerations. Ordering information is shown on page 28.



• Filter D Subminature Connectors and Adaptors assure compliance with FCC Docket 20780 requirements without the need for expensive shielded cable. Transverse Monolith Filter Adaptors allow upgrade to EMI requirements without having to replace cables or connectors. For additional information on this filter product contact Phoenix Division Marketing Manager, ITT Cannon, 2801 Air Lane, Phoenix, Arizona 85034, telephone (602) 275-4792.

HOW TO ORDER Shielded/Shrouded Backshells

PLASTIC HOUSING 2 EACH AND LATCH PLATE PLASTIC SHROUD



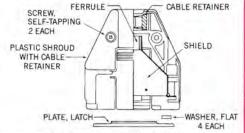


Comprised of the backshell, latch plate and 3 sets of cable retainers, including miscellaneous screws and washers.

HOW TO ORDER

Size	Kit Part Number
DA	DA 111409
DB	DB 111410
DC	DC 111411

KIT 3 Complete kit



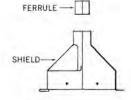


Comprised of backshell, latch plate, cable retainers, miscellaneous screws and washers, ferrule and shield.

HOW TO ORDER

Kit Part Number			
DA 111401			
DB 111402			
DC 111403			

SHIELD EXTENSION AND FERRULE





Comprised of the ferrule and shield.

HOW TO ORDER

Size	Kit Part Number
DA	DA 59104
DB	DB 59105
DC	DC 59106

KIT MATERIALS

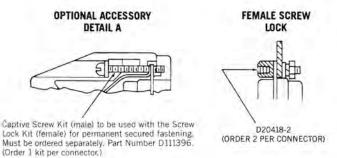
Description	Material	Finish	
Plastic Shroud	Thermoplastic Flame Retardant	Matte Light Gray	
Cable Retainer	UL listed 94-VO rated	(-1.5)	
Shield Extension	Denne	Tin-Lead	
Ferrule	Brass	Tin-Lead	
Ground Spring	CRES	Tin-Lead	
Hardware (Screws/Washers)	Steel	Cadmium/Zinc	

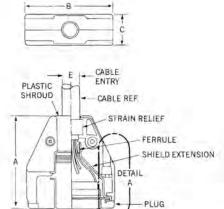
Plastic shroud and three (3) sets of cable retainers come attached to common plastic runner.



SHELL DIMENSIONS Shielded/Shrouded

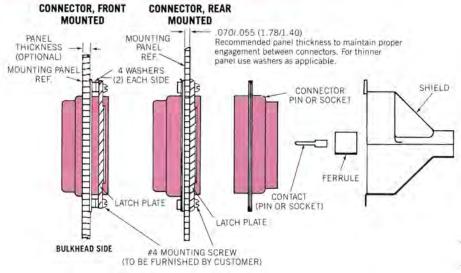
Following are the envelope dimensions for shell sizes DA, DB and DC. Also shown in detail A and as an optional accessory is the Captive Screw Kit (male). This kit is used with the Screwlock Kit (female). These kits are ordered separately. The Captive Screw Kit enables you to use shielded backshells with existing panel mounted connectors having female screwlocks.





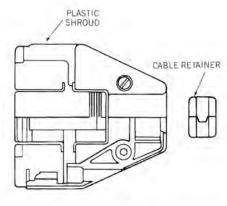
Shell Size	DIM. A ±.020 (±0.51)	DIM. B ±.020 (±0.51)	DIM. C ±.020 (±0.51)	MAX.
DA (15)	2.180	1,745	.700	.35
	(55.37)	(17.78)	(8.89)	(8.89)
DB (25)	2,250	2.285	.700	.40
	(57.15)	(17.78)	(10.16)	(10.16)
DC (37)	2.250 (57.15)	2.933 (74.50)	.700 (17.78)	.45

MOUNTING AND ASSEMBLY INFORMATION



EXPLODED VIEW

Cable retainers are provided in three grip ranges for each connector size to accommodate the cable jacket diameters tabulated below. (A combination of cable retainers may be used to accommodate a variety of alternate cable sizes.)



Connector Size	Grip Range (Diameter)							
DA (15)	.25/.29	.29/.32	.32/.35					
	(6.35/7.37)	(7.37/8.13)	(8.13/8.89)					
DB (25)	.30/.34	.34/.37	.37/.40					
	(7.62/8.64)	(8.64/9.40)	(9.40/10.16)					
DC (37)	.35/,39 (8.89/9.91)	.39/.42 (9.91/10.67)	.42/.45 (10.67/11.43)					

For cable diameters not shown please consult the factory.

CRIMP TOOLS Shielded/Shrouded

FERRULE CRIMPING

Both manual and semiautomatic equipment is available to ease the application of crimping the ferrule to the shielded backshells. The manual CCT HX4 with 3 special cavity die sets will accommodate all ferrule sizes as well as reduce costs. As volumes increase and your thoughts turn to automation, our ABT-606-SD, a pneumatically operated semiautomatic crimper will give your high volume backshell ferrule crimping as quickly as an operator can feed. "When you think crimp, think Cannon".



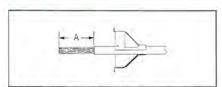
ABT 606 SD



CCT HX4 w/die sets Basic crimp tool: CCT HX4 Frame Part 995-0001-761

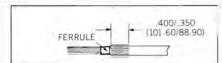
For Size DA use Hex Die Set 995-0002-046 For Size DB use Hex Die Set 995-0001-878 For Size DC use Hex Die Set 995-0001-885

CABLE TERMINATION DATA BRAIDED SHIELD CABLE

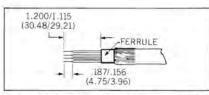


 Slide shield onto cable and strip outer jacket to dim shown in table below.

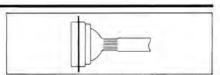
Shell Size	A±.05(±1.27)
DA	1,55 (39.37)
DB	1.55 (39.37)
DC	1.88 (47.75)



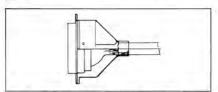
2. Comb braid back over outer jacket and trim to dim shown. Slide ferrule over exposed wires.



Strip wires and terminate contacts per specification.

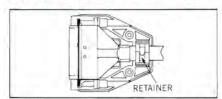


 Insert contacts into connector comb braid forward over ferrule holding ferrule firmly against outer jacket.

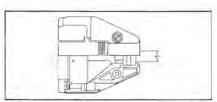


Slide shield over ferrule until shield flanges are flush with connector flanges. When applicable, drain wire is captured between ferrule and shield. Crimp shield to ferrule (see above for proper tool).

TYPICAL BOTH CABLE ASSEMBLIES

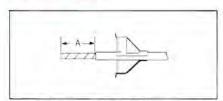


Place applicable cable retainers on cable then place cable retainer into shroud as shown.



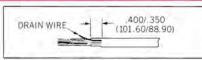
Place other half or shroud over assembly and screw together with furnished self-tapping screws.

FOIL SHIELD CABLE

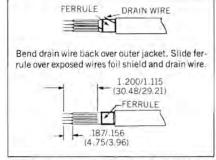


 Slide shield onto cable and strip outer jacket to dim shown in table below.

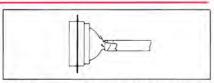
Shell Size	A±.05(±1.27)
DA	1.55 (39.37)
DB	1.55 (39.37)
DC	1.88 (47.75)



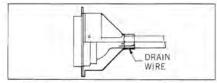
2. Trim foil shield to dim shown.



Strip wires and terminate contacts per specification.



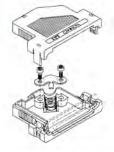
 Insert contacts into connector bring drain wire forward over ferrule holding ferrule firmly against outer jacket. Trim drain wire.

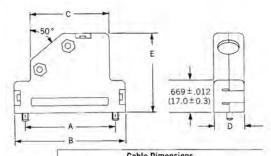


Slide shield over ferrule till shield flanges are flush with connector flanges. When applicable, drain wire is captured between ferrule and shield. Crimp shield to ferrule (see above for proper tool).

PLATED PLASTIC JUNCTION SHELL







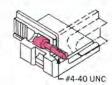
								Capie Di	mensions	
7.5.75	Connector	Δ	В	C	D	E	Outer	Jacket	Sh	ield
Part Number		±.006(0.15) ±.012(0.30)	±.012(0.30) ±.012(0.30)		±.012(0.30)	Min.	Max.	Min.	Max.	
DA121073-50	DA-15	1.311(33.30)	1.744(44.30)	1.075(27.30)	.630(16.00)	1.654(42.00)	.256(6.50)	.304(9.00)	138(3.50)	.295(7.50)
DB121073-51	DB-25	1.850(47.00)	2.283(58.00)	1.614(41.00)	.630(16.00)	1.654(42.00)	.256(6.50)	.433(11.00)	138(3.50)	.374(9.50)
DC121073-52	DC-37	2.500(63.50)	2.933(74.50)	2.264(57.50)	.630(16.00)	1,654(42,00)	.256(6.50)	.433(11.00)	138(3.50)	374(9.50)
DD121073-53	DD-50	2.406(61.10)	2.839(72.10)	2.642(67.10)	.748(19.00)	1,654(42.00)	.354(9.00)	.512(13.00)	236(6.00)	.453(11,00)
DE121073-54	DE-9	.984(25.00)	1.417(36.00)	.866(22.00)	.630(16.00)	1.417(36.00)	138(3.50)	.295(7.50)	.075(2.00)	.236(6.00)

STANDARD DATA

Shell—ABS polymer
Finish—Nickel plate over copper
Temperature Range— - 20°C to +80°C
Cable Strip Length For Shielding—.250 (6.40) min.
Attenuation—44 DB @ 1000 MHz

LOCKING HARDWARE

An optional screw lock is available for use with junction shells. This screw lock mates to standard D20418-2 female screw locks. Order 2 pieces per junction shell.

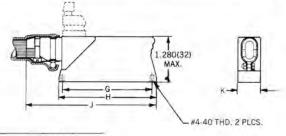


Part Number 250-8501-004

RFI/EMI DIE CAST JUNCTION SHELL FOR SHIELDED CABLES

Material—Aluminum alloy Plating—Clear conductive coating over cadmium





Part Number	±.005(0.13)	± .010(0.25)	Max.	Max.
DB 115386-72	1.850(47.04)	2.169(55.0)	2.992(76.00)	.636(16.15)
DC 115386-82	2,500(63.50)	2.819(71.60)	3.637(92.40)	.636(16.15)
DD 115386-92	2.406(61.10)	2.717(69.0)	3.543(90.00)	.748(19.0)

NOTE: Cable, cable shielding, tie-rap, and heat shrinkable tubes have to be furnished by customer.

CONNECTOR ORDERING INFORMATION

CONNECTOR ORDERING INFORMATION

Most standard D Subminiature connectors can be ordered with grounding capabilities. Typical system configurations include (1) grounded pin connector/standard socket connector and (2) standard pin connector/grounded socket connector.

Multiple grounding indentations are an option available on virtually any D Subminiature pin connector. Ground springs are available on the D*U series only.

Modification Code	Description	Usage
F201	Grounding indents (cadmium plate)	All D Subminiature pin connectors (metal shells)
K87	Grounding indents (tin plate)	All D Subminiature pin connectors (metal shells)
A197	Tin plate	All metal shell D Subminiatures
F197	Ground spring	D*U socket connectors





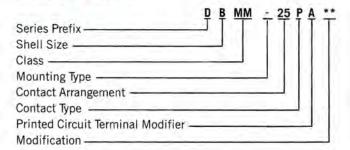
MARK I D*M

Cannon's Mark I D*M Series is widely used on military and commercial systems ranging from satellites to telecommunication and computer equipment. The D*M connector features a one-piece insulator for improved temperature characteristics and increased moisture resistance. This series, qualified to MIL-C-24308, is available in five #20 contact arrangements plus a variety of combination arrangements to accomodate snap-in coaxial, high voltage, or high power contacts. #20 solder cup contacts are standard. Printed circuit terminals and wrap posts are also available. All #20 signal contacts are nonremovable.

For non-magnetic and/or non-outgassing applications the D*M connector is available in versions with NMB and NMC ratings and gold-plated shells.



HOW TO ORDER



SERIES PREFIX

SHELL SIZE

A, B, C, D, E

CLASS

M — One piece insulator

MM- One piece insulator: materials, finishes, and inspection per MIL-C-24308 as applicable. See page 68-69 for QPL listing

MOUNTING TYPE

No Designator: Standard .120 (3.05) diameter hole

E - Two clinch nuts for rear panel mounting

- Float mounts for rear panel mounting

K - .154 (3.91) diameter mounting holes

R - Reverse float mounts for front panel mounting

Y - Dual float mount for both front and rear panel mounting

CONTACT ARRANGEMENTS

See page 31

CONTACT TYPE

P — Pin S — Socket

PRINTED CIRCUIT TERMINAL MODIFIER

See page 33

MODIFICATION

See page 66

NON-MAGNETIC APPLICATIONS

To order a connector with non-magnetic properties, add the appropriate suffix code to the part no. See page 30 for materials and finishes.

Suffix Code	Residual Magnetism	Shell Plating Finish	Typical Part No.
NM	2000 Gamma	Yellow chromate over cadmium	DBM-25P-NM
NMB	200 Gamma	Yellow chromate over cadmium	DBM-25P-NMB
NMB-K52	200 Gamma	Gold over copper	DBM-25P-NMB-K52
K52	_	Gold over copper	DBM-25P-K52





D SUBMINIATURE RECTANGULAR CONNECTORS

STANDARD DATA MATERIALS AND FINISHES

	STANDARD		M24308	
	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	Gold 50 microinches minimum thickness per MIL-G-45204 Type II Grade C Class 1 over copper per MIL-C-14550
Float Mount Hardware	Stainless steel	Passivate per QQ-P-35	Stainless steel	Passivate per QQ-P-35

	NON-MAGNETIC	
	Material	Finish
Shell	Brass per QQ-B 613	NM: Yellow chromate over cadmium per QQ-P-35 NMB: Yellow chromate over cadmium per QQ-P-35 K52: Gold 50 microinches minimum thickness per MIL-G-45204 Type II Grade C Class 1 over copper per MIL-C-14550
Insulator	NM: Same as standard NMB: Diallyl phthalate per MIL-M-14, type SDG-F, color white unmilled, unpigmented K52: Same as standard	
Contact	Copper Alloy	NM: Gold 50 microinches minimum thickness per MIL-G-45204 Type II Grade C Class 1 over copper per MIL-C-14550 NMB: Gold 50 microinches minimum thickness per MIL-G-45204 Type II Grade C Class 1 over copper per MIL-C-14550 K52: Gold 50 microinches minimum thickness per MIL-G-45204 Type II Grade C Class 1 over copper per MIL-C-14550
Float Mount Hardware	NM: Stainless steel NMB: Brass K52: Brass	NM: Passivate per QQ-P-35 NMB: Yellow chromate over cadmium per QQ-P-416 K52: Gold 50 microinches minimum thickness per MIL-G-45204 Type II Grade C Class 1 over copper per MIL-C-14550

PERFORMANCE SPECIFICATIONS	STANDARD ARRANGEMENTS	HIGH POWE	R		HIGH VOLTAGE CONTACTS	COAXIAL CONTACTS
		Contac Size	t	Wire Size		
Wire Accommodation (AWG)	#20 Max.	0808 0812 0816		8 12 16	#20 Max.	See page 35 for ordering information
		Contac Size	ı	Current Rating		
Current Rating	#20; 5 Amp	0808 0812 0816		40 Amp 20 Amp 10 Amp	5 Amp	5 Amp
Temperature Rating	-65°C to +150°C	-65	°C to +	150°C	- 55°C to + 125°C	-65°C to +150°C
		Contact Size	Test Amps	MV Drop		
Contact Resistance After Salt Spray, Millivolt Max.	55 @ 7.5 Amp test current	0808 0812 0816	40 20 10	40 20 15	55 @ 7.5 Amp test current	55 @ 7.5 Amp test current

HELECTRIC WITHSTANDING	VOLTAGE	Altitude (feet/m)								
		S	ea Level	20	,000/6096	50	,000/15240	7	0,000/1336	
Type of Contact		90°	Straight	90°	Straight	90°	Straight	90 ⁴	Straigh	
Center Conductor	Average Flashover	1200	1500	900	1000	600	700	400	500	
to Coaxial Shell	Test	800	1000	600	650	400	475	275	325	
High Power Contact and/or Coaxial Shell to Plug Shell	Average Flashover	1500	1500	1000	1000	500	500	500	500	
	Test	1000	1000	650	650	325	325	325	325	
Coaxial Shell to Nearest	Average Flashover		1500		1500		900		650	
Standard Solder Pot Contact	Test		1000		1000		600		425	
HV Contact to Nearest	Average Flashover	3800	3800	2300	2300	900	900	650	650	
Contact or to Shell	Test	2800	2800	1700	1700	675	675	475	475	
#20 Signal	Average Flashover		1700	100	1000		650		500	
	Test		1250		750		475		375	

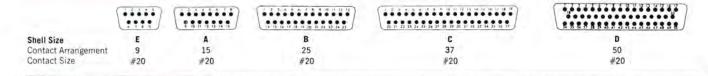
All voltage figures are rms AC 60 rms cps, measured at approximately $\pm 25\,^{\circ}\text{C}$, 50% rh. For additional performance specifications refer to MIL-C-24308 Test Extracts on page 67.

D SUBMINIATURE RECTANGULAR CONNECTORS



CONTACT ARRANGEMENTS (Face View Pin Insert)

BASIC ARRANGEMENTS



COMBINATION ARRANGEMENTS

(Will accommodate Removable Coax, Power and/or High Voltage Contacts, see pages 35-36 for ordering information)

Note: Color Code - Pin Connector: Red, Socket Connector: Blue

5W1

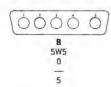
#20

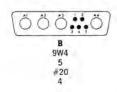
Contact Arrangement No. of Contacts	
No. of Contacts	nt
Contact Size	
Coax or HV Cavities	



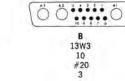


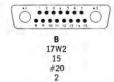


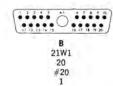


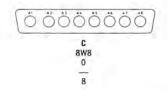


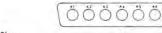
Shell Size	
Contact Arrangemen	t
No. of Contacts	
Contact Size	
Coax or HV Cavities	









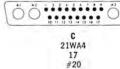




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	#20
	6



5



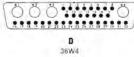
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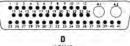


Shell Size
Contact Arrangement
No. of Contacts
Contact Size
Coax or HV Cavities

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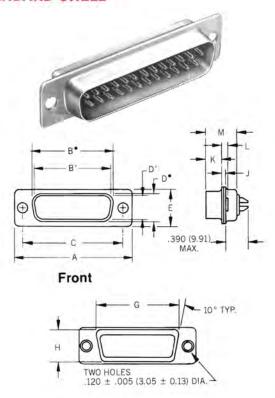








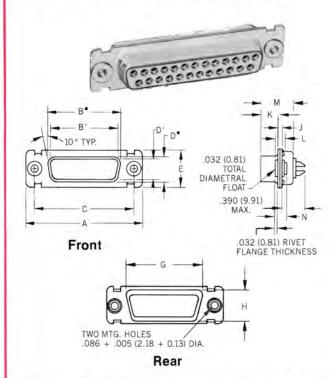
STANDARD SHELL



Rear

SHELL WITH FLOAT MOUNTS

For shell with float mounts, add letter F after letter M, e.g., DEMF9P



It is recommended that only one assembly, either pin or socket, be float mounted. For front panel mounting use reverse float mount; see page 65.

INCHES

.,.,,,														
Part Number by Shell Size	±.015	B• ±.010	B' ±.010	±.005	D• ±.010	D' ±.010	£ .015	G• ±.010	H• ±.010	±.010	±.010	±.010	M ±.015	±.010
DEM-9P	1.213	-	.666	.984	-	.329	.494	759	.422	.030	-236	.045	422	.120
DEM-9S	1.213	.640	-	.984	.308	-	.494	.759	.422	.030	.243	.045	.429	.120
DAM-15P	1.541	=	.994	1.312	-	329	494	1.083	.422	.030	.236	.045	.422	120
DAM-15S	1.541	.968	_	1.312	.308	-	.494	1.083	.422	.030	.243	.045	.429	.120
DBM-25P	2.088	-	1.534	1.852	-	.329	.494	1.625	.422	.039	.231	.060	.426	129
DBM-25S	2.088	1.508	-	1.852	.308	_	.494	1.625	.422	.030	.243	.045	.429	.120
DCM-37P	2.729	. =	2.182	2.500	15	329	.494	2.272	.422	.039	.231	.060	.426	.129
DCM-37S	2.729	2.156	_	2.500	.308	-	494	2.272	.422	.030	.243	.045	.429	.120
DDM-50P	2.635	<u> </u>	2.079	2.406		.436	.605	2.178	.534	.039	.231	.060	:426	.129
DDM-50S	2.635	2.062	-	2.406	.420	_	.605	2.178	.534	.030	.243	.045	.429	120

MILLIMETERS

± 0.38	B' ±0.25	B• ±0.25	±0.12	D• ±0.25	D' ±0.25	£ ±0.38	G• ±0.25	H• ±0.25	± 0.25	K ± 0.25	± 0.25	M ± 0.38	N ± 0.25
30.81		16.91	24.99	-	8.36	12.55	19.28	10.72	0.76	5.99	1.14	10.72	3.05
30.81	16.25	_	24.99	7.82	-	12.55	19.28	10.72	0.76	6.17	1.14	10.90	3,05
39.14		25.24	33.32	-	8.36	12.55	27.51	10.72	0.76	5.99	1.14	10.72	3.05
39.14	24.58		33.32	7.82	_	12.55	27.51	10.72	0.76	6.17	1.14	10.90	3.05
53.03	-	38.96	47.04	-	8.36	12.55	41.27	10.72	0.99	5.87	1.52	10.82	3.28
53.03	38.30	-	47.04	7.82	-	12.55	41.27	10.72	0.76	6.17	1.14	10.90	3.05
69.31	-	55.42	63.50	-	8.36	12.55	57.71	10.72	0.99	5.87	1.52	10.82	3,28
69.31	54.76	-	63.50	7.82	_	12.55	57.71	10.72	0.76	6.17	1.14	10.90	3.05
66.92	-	52.81	61.11	-	11.07	15.37	55.32	13.56	0.99	5.87	1.52	10.82	3.28
66.92	52.37		61.11	10.67	-	15.37	55.32	13.56	0.76	6.17	1.14	10.90	3.05
	30.81 30.81 39.14 39.14 53.03 53.03 69.31 69.31 66.92	± 0.38 ± 0.25 30.81 — 30.81 16.25 39.14 — 39.14 24.58 53.03 — 53.03 38.30 69.31 — 69.31 54.76 66.92 —	± 0.38 ± 0.25 ± 0.25 30.81 — 16.91 30.81 16.25 — 39.14 — 25.24 39.14 24.58 — 53.03 — 38.96 53.03 38.30 — 69.31 — 55.42 69.31 54.76 — 66.92 — 52.81	± 0.38 ± 0.25 ± 0.25 ± 0.12 30.81 — 16.91 24.99 30.81 16.25 — 24.99 39.14 — 25.24 33.32 39.14 24.58 — 33.32 53.03 — 38.96 47.04 53.03 38.30 — 47.04 69.31 — 55.42 63.50 69.31 54.76 — 63.50 66.92 — 52.81 61.11	± 0.38 ± 0.25 ± 0.25 ± 0.25 ± 0.25 30.81 — 16.91 24.99 — 30.81 16.25 — 24.99 — 39.14 — 25.24 33.32 — 39.14 24.58 — 33.32 7.82 53.03 — 38.96 47.04 — 53.03 38.30 — 47.04 7.82 69.31 — 55.42 63.50 — 69.31 54.76 — 63.50 7.82 66.92 — 52.81 61.11 —	± 0.38 ± 0.25<	± 0.38 ± 0.25 ± 0.25 ± 0.12 ± 0.25 ± 0.25 ± 0.38 30.81 — 16.91 24.99 — 8.36 12.55 30.81 16.25 — 24.99 7.82 — 12.55 39.14 — 25.24 33.32 — 8.36 12.55 39.14 24.58 — 33.32 7.82 — 12.55 53.03 — 38.96 47.04 — 8.36 12.55 53.03 38.30 — 47.04 7.82 — 12.55 69.31 — 55.42 63.50 — 8.36 12.55 69.31 54.76 — 63.50 7.82 — 12.55 66.92 — 52.81 61.11 — 11.07 15.37	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					

[•] Dimensions B, D, G, and H are measured as outside dimensions at the bottom of the draw.

NOTE: B• and D• are the O.D. dims. for socket side, B' and D' are the I.D. dims. for pin side.



PRINTED CIRCUIT APPLICATIONS

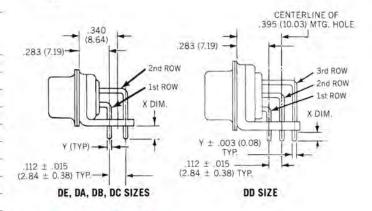
Select the appropriate code from the table below. Typical part no. DBM-25P $\underline{\textbf{A}}$. See "How To Order" page 29 for additional instructions.

		Right	Angle			
Code	Straight	With Bracket	W/Out Bracket	X ± .027(0.69)	Ý	
Α		•		.127(3.22)	.040(1.02)	
В				.127(3.22)	.040(1.02)	
C			•	.127(3.22)	.040(1.02)	
D		•		.127(3.22)	.030(0.76)	
E	•			.127(3.22)	.030(0.76)	
F			•	.127(3.22)	.030(0.76)	
G				.158(4.01)	.040(1.02)	
Н	•			.158(4.01)	.040(1.02)	
K			•	.158(4.01)	.040(1.02)	
L		•		.158(4.01)	.030(0.76)	
M	•			.158(4.01)	.030(0.76)	
P			•	.158(4.01)	.030(0.76)	
R			•	.183(4.65)	.030(0.76)	
S		•		.183(4.65)	.030(0.76)	
W				.183(4.65)	.040(1.02)	
X	•			.183(4.65)	.040(1.02)	
Z	•			.183(4.65)	.030(0.76)	

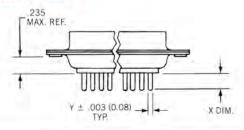
RIGHT ANGLE 90 ° TERMINAL

Connectors are furnished with or without plastic bracket.

Connectors with brackets cannot be ordered with float mounts or clinch nuts.



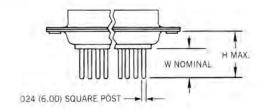
STRAIGHT TERMINAL



WIRE WRAPPING APPLICATIONS

Modification Code	Number of Wraps	w	н
F179	2	.375 (9.52)	.625 (15.88)
F179A	3	.500 (12.7)	.750 (19.05)

Typical Part Number: DMB-25P-F179





MARK I D*M COAXIAL, HIGH POWER, AND HIGH VOLTAGE CONTACTS

Mark I coax, high power, and high voltage contacts are available for use with Mark I combination arrangements. Purchased separately, they snap in and are front-release, rear-removable.

COAXIAL CONTACTS accommodate a variety of RG cables and are available in crimp braid, solder braid, and PC versions.

HIGH POWER CONTACTS are available in three sizes to accommodate #8 AWG through #16 AWG with maximum current rated at 40 amps.

HIGH VOLTAGE CONTACTS increase average flashover voltage to 3800 VAC sea level. A nylon dielectric shrouds a #20 center contact.

Connector ordering information is shown on page 35.



HIGH POWER



HIGH VOLTAGE



STANDARD DATA

MATERIALS AND FINISHES

Contact Type	Material	Standard Finish	Military Finish
MARK I COAXIALS			
Coaxial Plugs			
Outer Shell	Brass	Gold over nickel	A156*
Retainer Ring	Beryllium copper	Nickel	Nickel
Insulator	Teflon	None	None
Outer Sleeve	Brass	Gold over nickel	A156*
Socket Center Contact	Copper alloy	Gold over nickel	A156*
Coaxial Receptacl	es		
Outer Shell	Beryllium copper	Gold over nickel	A156*
Retainer Ring	Beryllium copper	Nickel	Nickel
Insulator	Teflon	None	None
Outer Sleeve	Brass	Gold over nickel	None
Pin Center Contact	Brass	Gold over nickel	A156*

^{*}A156 finish—Gold 50 microinches min. thickness per MIL-G-45204 Type II Grade C Class I over copper per MIL-C-14550.

Contact Type	Material	Standard Finish	Military Finish
HIGH POWER CONT	ACTS		
Plug	Brass	Gold over nickel	A156*
Receptacle	Beryllium copper	Gold over nickel	A156*
Retainer Ring	Beryllium copper	Nickel	None
HIGH VOLTAGE COM	ITACTS		
Pin Contact	Brass	Gold over nickel	A156*
Socket Contact	Copper alloy	Gold over nickel	A156*
Insulator	Nylon plug red receptacle blue	None	None
Retainer Ring	Beryllium copper	Nickel	Nickel

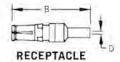
For performance specifications see page 30.

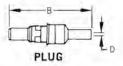


MARK I COAXIAL CONTACTS STRAIGHT CRIMP BRAID

Color Code: Receptacle - Blue; Plug - Red



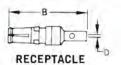


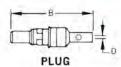


	Part N	lumber	Α		D	RG Cable No.	
	Standard Finish	Military Finish*	Max.	В	± .005 (± 0.13)	Old	New
Plug	DM53740	DM53740-17	.739(18.8)	945/.915(24.00/23.24)	.040(1.02)	196/U	178B/U
Plug	DM53740-1	DM53740-15	.739(18.8)	.945/.915(24.00/23.24)	.067(1,70)	187/U 188/U	179B/U 316B/U
Plug	DM53740-3	DM53740-16	.847(21.5)	1.052/1.022(26.72/25.96)	.110(2.79)	195/U	180B/U
Plug	DM53740-5	DM53740-18	.847(21.5)	1.052/1.022(26.72/25.96)	.125(3.18)	58/U	58B/U
Receptacle	DM53742	DM53742-18	.739(18.8)	.965/.917(24.51/23.29)	.040(1.02)	196/U	178B/U
Receptacle	DM53742-1	DM53742-16	.739(18.8)	.965/.917(25.51/23.29)	.067(1.70)	187/U 188/U	179B/U 316B/U
Receptacle	DM53742-3	DM53742-17	.847(21.5)	1.079/1.033(27.41/26.24)	.110(2.79)	195/U	180B/U
Receptacle	DM53742-5	DM53742-19	.847(21.5)	1.079/1.033(27.41/26.24)	.125(3.18)	58/U	58B/U

STRAIGHT SOLDER BRAID



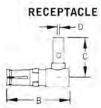


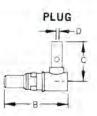


	Part Number		A	- 10	D	RG Cable No.	
	Standard Finish	Military Finish*	Max.	В	± .005 (± 0.13)	Old	New
Plug	DM53740-5008	DM53740-5105	.739(18.8)	.945/.915(24.00/23.24)	.040(1.02)	196/U	178B/U
Plug	DM53740-5001	DM53740-5099	.739(18.8)	.945/.915(24.00/23.24)	067(1.70)	187/U 188/U	179B/U 316B/U
Plug	DM53740-5002	DM53740-5104	.847(21.5)	1.052/1.022(26.72/25.96)	.110(2.79)	195/U	180B/U
Plug	DM53740-5005	DM53740-5101	.847(21.5)	1.052/1.022(26.72/25.96)	.125(3.18)	58/U	58B/U
Receptacle	DM53742-5006	DM53742-5092	.739(18.8)	.965/.917(24.51/23.29)	,040(1,02)	196/U	178B/U
Receptacle	DM53742-5001	DM53742-5089	.739(18.8)	.965/.917(25.51/23.29)	.067(1.70)	187/U 188/U	179B/U 316B/U
Receptacle	DM53742-5002	DM53742-5091	.847(21.5)	1.079/1.033(27.41/26.24)	.110(2.79)	195/U	180B/U
Receptacle	DM53742-5004	DM53742-5086	.847(21.5)	1.079/1.033(27.41/26.24)	.125(3.18)	58/U	58B/U
Plug (Short Type)	DM53740-5000	DM53740-5100	-670(17.0)	876/.846(22.25/21.49)	.040(1.02)	196/U	178B/U
Receptacle (Short Type)	DM53742-5000	DM53742-5085	.670(17.0)	.898/.850(22.81/21.59)	.040(1.02)	196/U	178B/U

RIGHT ANGLE SOLDER BRAID







	Part N	lumber	A			D	RG Ca	RG Cable No.	
	Standard Finish	Military Finish*	Max.	В	C	$\pm .005(\pm 0.13)$	Old	New	
Plug	DM53741-5000	DM53741-5059	.530(13.46)	745/.725(18.92/18.41)	.492(12.50)	.040(1.02)	196/U	178B/L	
Plug	DM53741-5001	DM53741-5062	.530(13.46)	.745/.725(18.92/18.41)	.492(12.50)	.067(1.70)	187/U 188/U	179B/L 316B/L	
Plug	DM53741-5003	DM53741-5063	.530(13.46)	745/.725(18.92/18.41)	.601(15.27)	.110(2.79)	195/U	180B/L	
Plug	DM53741-5004	DM53741-5060	.530(13.46)	745/.725(18.92/18.41)	.601(15.27)	125(3.18)	58/U	58B/U	
Receptacle	DM53743-5000	DM53743-5073	.530(13.46)	765/.729(19.43/18.52)	492(12.50)	.040(1.02)	196/U	178B/U	
Receptacle	DM53743-5001	DM53743-5076	.530(13.46)	765/.729(19.43/18.52)	.492(12.50)	.067(1.70)	187/U 188/U	179B/L 316B/L	
Receptacle	DM53743-5003	DM53743-5077	.530(13.46)	765/.729(19.43/18.52)	.601(15,27)	.110(2.79)	195/U	180B/U	
Receptacle	DM53743-5004	DM53743-5074	.530(13.46)	.765/.729(19.43/18.52)	.601(15.27)	.125(3.18)	58/U	58B/U	

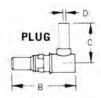
^{*}MIL-C-24308 Finish: 0.00005(0.00127) minimum gold plate over copper plate (ITT Cannon code A 156).

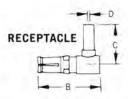


MARK I COAXIAL CONTACTS (Continued) RIGHT ANGLE CRIMP BRAID

Color Code: Receptacle - Blue; Plug - Red

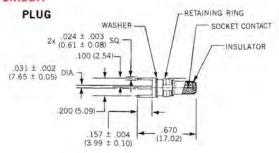


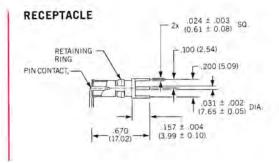




	Part Number		A B			D	RG Cable No.	
	Standard Finish	Military Finish*	Max.	Ref.	C	\pm .005(\pm 0.13)	Old	New
Plug	DM53741	DM53741-12	.535(13.60)	.745/.725(18.92/18.41)	.492(12.50)	.040(1.02)	196/U	178B/U
Plug	DM53741-1	DM53741-11	.535(13.60)	.745/.725(18.92/18.41)	.492(12.50)	.067(1.70)	187/U 188/U	179B/U 316B/U
Plug	DM53741-3	DM53741-10	.535(13.60)	.745/.725(18.92/18.41)	.593(13.69)	.110(2.79)	195/U	180B/U
Plug	DM53741-4	DM53741-13	.535(13.60)	.745/.725(18.92/18.41)	.593(13.69)	.125(3.18)	58/U	58B/U
Receptacle	DM53743-2	DM53743-18	,535(13.60)	.765/.729(19.43/18.52)	.492(12.50)	.040(1.02)	196/U	178B/U
Receptacle	DM53743-3	DM53743-16	.535(13.60)	.765/.729(19.43/18.52)	.492(12.50)	.067(1.70)	187/U 188/U	179B/U 316B/U
Receptacle	DM53743-5	DM53743-17	,535(13.60)	.765/.729(19.43/18.52)	.593(13.69)	.110(2.79)	195/U	180B/U
Receptacle	DM53743-6	DM53743-19	.535(13.60)	.765/.729(19.43/18.52)	.593(13.69)	.125(3.18)	58/U	58B/U

STRAIGHT PRINTED CIRCUIT

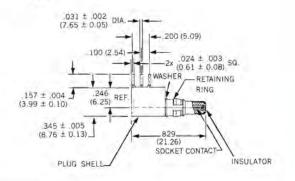


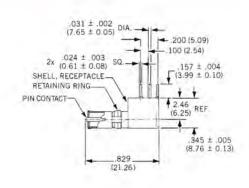


	Part Number					
	Standard Finish	Military Finish*				
Plug	DM121073-200	DM121073-210				
Receptacle	DM121073-201	DM121073-211				

RIGHT ANGLE

PLUG

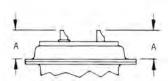


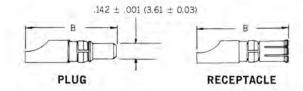


Part N	umber
Standard Finish	Military Finish*
DM121073-202	DM121073-212
DM121073-203	DM121073-213
	Standard Finish DM121073-202



MARK I HIGH POWER CONTACTS SOLDER TYPE





	Part Number		A	В	Current Rating	Wire
	Standard Finish	Military Finish*	Max.	Ref.	(Amps)	Size
Plug	DM53745-1	DM53745-28	.666 (16.92)	.866 (22.00)	40	#8
Plug	DM53745-7	DM53745-27	.666 (16.92)	865 (22.00)	20	#12
Plug	DM53745-8	DM53745-25	.666 (16.92)	.866 (22.00)	10	#16
Receptacle	DM53744-1	DM53744-21	.666 (16.92)	.856 (21.74)	40	#8
Receptacle	DM53744-6	DM53744-25	.666 (16.92)	.856 (21.74)	20	#12
Receptacle	DM53744-7	DM53744-24	.666 (16.92)	.856 (21.74)	10	#16

MARK I HIGH VOLTAGE CONTACTS STRAIGHT







	Part I	Number	A	В	Wire
	Std. Finish	Mil. Finish*	Max.	Ref.	Size
Plug	DM51157	DM51157-8	539 (13.69)	.734 (18.64)	#20
Receptacle	DM51155	DM51155-7	.539 (13.69)	.734 (18.64)	#20

RIGHT ANGLE







Part Number Standard Finish Military Finish* Wire A Max. Ref. Size Plug DM51157-5000 DM51157-5005 .491 (12.47) .697 (17.70) #20 DM51155-5000 DM51155-5004 .491 (12.47) .697 (17.70) #20

^{*}MIL-C-23308 Finish: 0.00005 (0.00127) minimum gold plate over coper plate (ITT Cannon code A156).

D SUBMINIATURE RECTANGULAR CONNECTORS

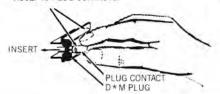
MARK I COAXIAL, HIGH POWER AND HIGH VOLTAGE CONTACTS INSERTION/EXTRACTION PER COLOR CODED CONNECTOR

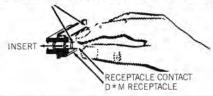
RED COLOR CODED CONNECTOR ACCEPTS PLUG CONTACTS.

BLUE COLOR CODED CONNECTORS ACCEPTS RECEPTACLE CONTACTS. INSERT FROM TERMINAL END AS SHOWN BELOW.



No insertion tool is required. The contact is easily snapped in from the rear of the connector.





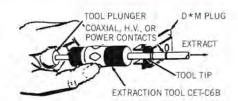
EXTRACTION

CET-C6B

The CET-C6B tool extracts coaxial, high power and high voltage contacts (plug and receptacle). Part number 070064-0000.

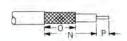
OPERATING INSTRUCTIONS:

To extract the coax contact, hold the tool by the body and insert the tip into the front of the contact cavity until it bottoms and closes the coax retaining ring. Holding the body in this position securely enough to keep coax retaining ring closed, push the plunger; contact will be pushed out of the rear of the assembly.



MARK I COAX ASSEMBLY INSTRUCTIONS

TRIM DIMENSIONS



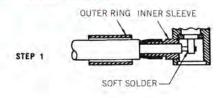
		Straight			Right Angle		
RG Cable No.	N	0	P	N	0	P	
196/U, 178B/U 187/U 188/U, 179B/U 316B/U	.312(7.92)	250(6.35)	078(1.98)	.375(9.52)	234(5.94)	.062(1 57)	
195/U, 180B/U 58/U, 58B/U	.375(9.52)	312(7 92)	.078(1.98)	422(10.69)	.312(7.92)	.094(2.39)	

All tolerances ± .010(0.25)

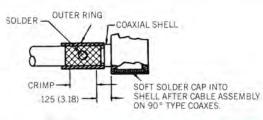
CRIMP TOOLING

RG Cable No.	Tool P/N	Description	Closure
196/U, 178B/U	070051-0000	CCT-DM	C
187/U, 179B/U 188/U, 316B/U	070051-0000	CCT-DM	В
195/U, 180B/U 58/U, 58B/U	070051-0000	CCT-DM	А

ASSEMBLY INSTRUCTIONS



STEP 2



90 ° COAXIAL



STEP 1: Straight and 90° Coaxials

 Slide the outer ring over the cable jacket. Trim the cable as specified in the table of Coax Cable Trim Dimensions, Insert the cable dielectric and center conductor into the inside diameter of the inner sleeve. Then solder the center conductor to the coax center contact.

STEP 2: Straight and 90° Coaxials

 Slide the outer ring forward until it is flush with the coax shell containing the braid between the outer ring and the inner sleeve. For solder type coaxes, soft solder the outer ring to the assembly thru the cross-drilled solder hold.
 For crimp type coaxes, crimp with the appropriate tool in the area defined.

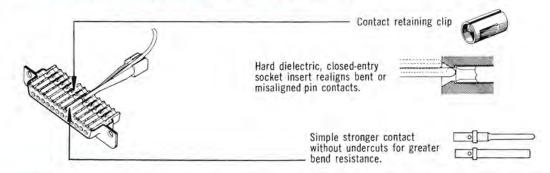


MARK III D*MA QUALIFIED TO M24308

The D*MA Series is a high reliability connector with crimp, snap-in contacts utilizing the LITTLE CAESAR® contact retention assembly. The Mark III accommodates from #18 AWG through #30 AWG, and is available in 5 shell sizes and 11 insert arrangements including the high density DDMA-78 layout which accommodates 78 #22D contacts. The D*MA Series also accommodates snap-in coaxial, high power and high voltage contacts which are ordered separately. The contacts are used in the combination arrangements shown on page 41.



LITTLE CAESAR® REAR RELEASE CONTACT ASSEMBLY

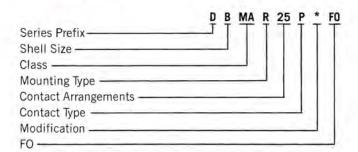


NON-MAGNETIC APPLICATIONS

To order a connector with non-magnetic properties, add the appropriate suffix code to the part number. See page 40 for materials and finishes.

Suffix Code	Residual Magnetism	Shell Plating Finish	Typical Part No.
NM	2000 Gamma	Yellow chromate over cadmium	DBMA-25P-NM
NMB	200 Gamma	Yellow chromate over cadmium	DBMA-25P-NMB
NMB-K47-FO (less contacts)	200 Gamma	Gold over copper	DBMA-25P-NMB-K47-F0
NMB-K52 (with contacts)	200 Gamma	Gold over copper	DBMA-25P-NMB-K52

HOW TO ORDER



SERIES PREFIX

D — ITT Cannon designation

SHELL SIZE

E, A, B, C and D

CLASS

MA — LITTLE CAESAR rear release contact retention assembly.
MAM — LITTLE CAESAR rear release contact retention assembly;
materials, finishes and inspection per MIL-C-24308 as applicable. See page 68 for QPL list.

MOUNTING TYPE

No designator: standard .120 (3.05) diameter mounting hole

E - 4-40 clinch nut for rear panel mounting

F — Float mount for rear panel mounting

K - .154 (3.91) diameter mounting hole

R - Reverse float mount for front panel mounting

Y — Dual float mount for both front and rear panel mounting

CONTACT ARRANGEMENTS

See page 41

CONTACT TYPE

P - Pin; S - Socket

MODIFICATION

See page 62

EU

Connector without contacts (FO will not be printed on the connector)



STANDARD DATA MATERIALS AND FINISHES

	Standard D*MA		M24308 D*MAM		Non-Magnetic	
	Material	Finish	Material	Finish	Material	Finish
Shell	Steel per ASTM-A-620	Yellow chromate over cadmium per QQ-P-416	Same as standard	Same as standard	Brass per QQ-B-613	NM: Yellow chromate over cadmium per QQ-P-416
					NMB: Yellow chromate over cadmium per QQ-P-416	
						K47, K52-A156*
Insulator	Diallyl phthalate per	None	Same as standard	None	NM: Same as standard	None
	MIL-M-14 type SGD-F, color green				NMB: Diallyl phthalate per MIL-M-14 type SDG-F unmilled, unpigmented color white	None
Contact	Pin: Copper alloy	Pin: Gold over nickel	Same as standard	A156*	NM: Same as standard	A156*
	Socket: Copper alloy stainless steel hood	Socket: Hood passivated			NMB Pin: Copper alloy Socket: Copper alloy beryllium copper hood	Pin: A156* Socket: A156*
Float Mount	Stainless Steel	Passivated per QQ-P-35	Same as standard	Same as standard	NM: Same as standard	Same as standard
Hardware					NMB: Brass	Same as standard
					K47, K52: Brass	A156*

^{*} A156 Finish: Gold, 50 microinches minimum thickness per MIL-G-45204. Type II Grade C Class 1 over copper per MIL-C-14550.

PERFORMANCE SPECIFICATIONS

	STANDARD ARRANGEN		DDMA-78 ARRANGEMENTS HIGH POWER CONTACTS		HIGH VOLTAGE CONTACTS	COAXIAL		
	Contact Size	AWG		Contact Size	AWG			
unes a second	2020	20, 22, 24	#22D Contact: 22,	0808	#18	#20 Max. (solder cup)	See page 50 for order-	
Wire Accommodation	2018	2018 1 #18 2 #22	24, 26, 28	0812	#12		ing info.	
				0816	#16	4		
	2026	26, 28, 30		0010				
Current Rating	#20 Wire:	5 Amps	#22 Wire: 5 Amps	0808; 40 A 0812: 20 Ar 0816: 10 An	mps	#20 Wire: 5 Amps	#20 center contacts: 5 Amps	
Temperature Rating	-65°C	to + 150°C	-65°C to +150°C	-65°C to	+ 150 °C	-65°C to +120°C	-65°C to +150°C	

DIELECTRIC WITHSTANDING VOLTAGE

All voltages are measured from contact to contact and from contact to shell in unmated condition.

		Altit	ude (feet/m)	
Standard #20 Arrangements	Sea Level	20,000/6096	50,000/15240	70,000/21336
Average Flashover	1500	1000	500	500
Test	1000	650	325	325

					Altitude	(feet/m)			
Combination Arrangements		Sea Level		20,00	20,000/6096		0/15240	70,000/21336	
Type of Contact		90°	Straight	90°	Straight	90°	Straight	90°	Straight
Center Conductor to	Average Flashover	1200	1500	900	1000	600	700	400	500
Coaxial Shell	Test	800	1000	600	650	400	475	275	325
High Power Contact and/or	Average Flashover	1500	1500	1000	1000	500	500	500	500
Coaxial Shell to Plug Shell	Test	1000	1000	650	650	325	325	325	325
HV Contact to Nearest 20	Average Flashover	3800	3800	2300	2300	900	900	650	650
Contact or to Shell	Test	2800	2800	1700	1700	675	675	475	475

For additional product specifications please refer to MIL-C-24308 test excerpts page 66.



CONTACT ARRANGEMENTS

BASIC CONTACT ARRANGEMENTS (Face view Pin Insert)

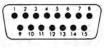


Shell Size Contact Arrangement Contact Size

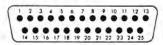


9

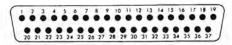
#20



15 #20



25 #20



Shell Size Contact Arrangement Contact Size

C 37 #20



50 #20

HIGH DENSITY CONTACT ARRANGEMENT

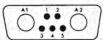


Shell Size

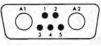
Contact Arrangement Contact Size

D 78 #22D Contacts only

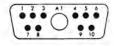
COMBINATION ARRANGEMENTS NOTE: Color Code — Pin Connector, Red; Socket Connector, Blue #20 CONTACTS WITH COAX POWER AND/OR HIGH VOLTAGE CONTACTS



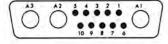
Shell Size Contact Arrangement No. of Contacts Contact Size Coax or HV Cavities



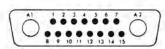
7W2 5 #20



11W1 10 #20 1

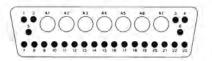


B 13W3 10 #20 3



Shell Size Contact Arrangement No. of Contacts Contact Size Coax or HV Cavities

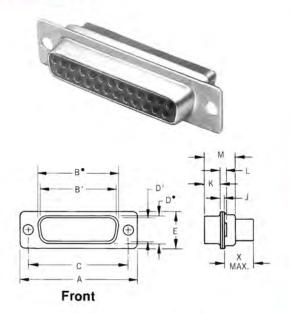
B 17W2 15 #20 2

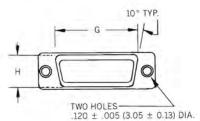


D 30WS7 23 #20 7 shielded contacts only

This layout for DDMA110335 and DDMA110336 Shielded contacts only (page 44)

STANDARD SHELL

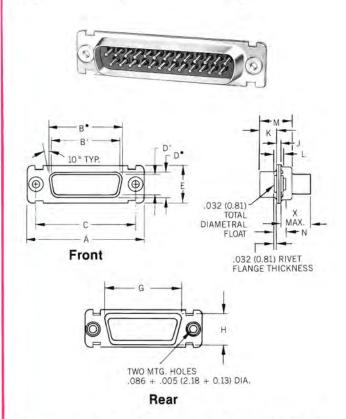




Rear

SHELL WITH FLOAT MOUNTS

For shell with float mounts, add letter F after letter C. e.g., DECF9P



It is recommended that only one assembly, either pin or socket, be float mounted. For front panel mounting use reverse float mount; see page 65.

INCHES

NUMES .															
Part Number by Shell Size	±.015	B• ±.010	± .010	£.005	D• ±.010	D' ±.010	±.015	G• ±.010	H• ±.010	±.010	±.010	±.010	M ±.015	N ±.010	X Max.
DEMA-9P	1.213	-	.666	.984	-	329	.494	.759	.422	.030	.236	.045	.422	.120	375
DEMA-9S	1.213	.640	_	.984	.308	-	.494	.759	.422	.030	.243	.045	.429	.120	.375
DAMA-15P	1.541	-	.994	1.312	-	329	494	1.083	.422	.030	.236	.045	.422	120	.375
DAMA-15S	1.541	.968	-	1.312	.308		.494	1.083	.422	.030	.243	.045	.429	.120	.375
DBMA-25P	2.088	-	1.534	1.852	+	.329	.494	1.625	.422	.039	.231	.060	.426	.129	.375
DBMA-25S	2.088	1.508	-	1.852	.308	-	.494	1.625	.422	.030	.243	.045	.429	.120	.375
DCMA-37P	2,729	18	2.182	2.500	-	.329	.494	2,272	.422	.039	.231	.060	.426	129	.375
DCMA-37S	2.729	2.156	_	2.500	.308	-	.494	2.272	.422	.030	.243	.045	.429	.120	.375
DDMA-50P	2.635		2 079	2.406	-	436	605	2.178	.534	.039	.231	.060	426	129	.375
DDMA-50S	2.635	2.062	-	2.406	.420	_	.605	2.178	.534	.030	.243	.045	.429	.120	.375

MILLIMETERS

Part Number by Shell Size	± 0.38	B' ± 0.25	B• ±0.25	±0.12	D• ±0.25	D' ± 0.25	£ ±0.38	G• ±0.25	H• ±0.25	± 0.25	± 0.25	± 0.25	M ± 0.38	N ± 0.25	Max.
DEMA-9P	30.81	2	16.91	24.99	-	8.36	12.55	19.28	10.72	0.76	5.99	1.14	10.72	3.05	9.52
DEMA-9S	30.81	16.25	-	24.99	7.82		12.55	19.28	10.72	0.76	6.17	1.14	10.90	3.05	9.52
DAMA-15P	39.14	-	25.24	33.32	-	8.36	12.55	27.51	10.72	0.76	5.99	1.14	10.72	3.05	9.52
DAMA-15S	39.14	24.58	-	33.32	7.82	-	12.55	27.51	10.72	0.76	6.17	1.14	10.90	3.05	9.52
DBMA-25P	53.03	-	38.96	47.04		8.36	12,55	41.27	10.72	0.99	5.87	1.52	10.82	3.28	9.52
DBMA-25S	53.03	38.30	_	47.04	7.82	-	12.55	41.27	10.72	0.76	6.17	1.14	10.90	3.05	9.52
DCMA-37P	69.31	-	55.42	63.50	-	8.36	12.55	57.71	10.72	0.99	5.87	1.52	10.82	3.28	9.52
DCMA-37S	69.31	54.76	_	63.50	7.82		12.55	57.71	10.72	0.76	6.17	1.14	10.90	3.05	9.52
DDMA-50P	66.92	-	52.81	61.11		11.07	15.37	55.32	13.56	0.99	5.87	1.52	10.82	3.28	9.52
DDMA-50S	66.92	52.37	-	61.11	10.67	-	15.37	55.32	13.56	0.76	6.17	1.14	10.90	3.05	9.52

Dimensions B, D, G, and H are measured as outside dimensions at the bottom of the draw.
 NOTE: B • and D • are the O.D. dims. for socket side, B' and D' are the I.D. dims. for pin side.



CONTACTS

CRIMP TYPE CONTACTS

Contact Size	Wire Size Accom.	Standar Pin	d Finish Socket	Military Finish Pin Socket			
20	20, 22, 24	330-5291-000	031-1007-000	330-5291-037	031-1007-042		
20-18	1 #18 & 2 #22	330-5291-001	031-1007-001	330-5291-055	031-1007-054		
20-26	26, 28, 30	330-5291-004	031-1007-004	330-5291-050	031-1007-048		
22D	22, 24, 26, 28			030-2042-002	031-1147-002		

MIL-C-39029 CROSS-REFERENCE

Contact Size	Wire Accom.	M39029	M24308*	Cannon Part No.
20 Pin	20/22/24	/64-369	/11-1	330-5291-037
20 Socket	20/22/24	/63-368	/10-1	031-1007-042
22D Pin 23	24/26/28	/58-360	/13-1	030-2042-000
22D Socket	22/24/26/28	/57-354	/12-1	031-1147-000

^{*} Superceded by M39029

TOOLING

INSERTION/EXTRACTION TOOLS



Contact		Plastic Inserti	on/Extraction	Plastic Extraction		
Size	AWG	Part No.	Description	Part No.	Description	
20	20, 22, 24	274-7006-000	CIET-20HD	323-7010-000	CET-20-11	
2026	26, 28, 30	274-7006-000	CIET-20HD	323-7010-000	CET-20-11	
0010	1 #18	None	None	274-5016-002	CET-20-15	
2018	2 #22	None	None	274-5016-002	CET-20-15	
22D	22, 24, 26, 28	274-7048-000	CIET-22D	None	None	
High Power	12, 16	274-7003-000	CIET-12	None	None	
High Volt	#20	274-7003-000	CIET-12	None	None	

HAND CRIMP TOOLS





Contact		Crimp	Tool	Locator		
Size	AWG	Part No.	Description	Part No.	Description	
20	20, 22, 24	995-0001-584	M22520/2-01	995-0001-604	M22520/2-08	
20	20, 22, 24	995-0001-585	M22520/1-01	995-0001-244	TH25	
2026	26, 28, 30	995-0001-584	M22520/2-01	995-0001-325	L3198-20HD	
2018	1 #18 2 #22	995-0001-584	M22520/2-01	980-0005-722	K250	
22D	22, 24, 26, 28	995-0001-584	M22520/2-01	995-0001-739	M22520/2-06	

SEMI-AUTOMATIC CRIMP MACHINES



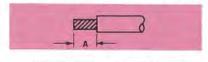
CBT 491

For volume applications the CBT-491 is a vibra-bowl, pneumatically operated crimper offering a more economical approach than belt-fed crimpers. Available for lease or purchase, this machine is designed for use with a wide variety of machined contacts. The MIL-Spec crimp is accomplished at the press of a foot pedal, assuring minimum cycle times and maximum performance.

For lower volumes the CBT-565 is a pneumatically operated bench tool delivering MIL-Spec crimps with minimal operator fatigue.

When you think crimp think Cannon!

ASSEMBLY INSTRUCTIONS



	Min.	Max.
D*MA	.188	.208
	(4.78)	(5.28)

1. Cut wires to length. Strip insulation per above illustration. Check for broken or frayed wires.



 To be sure contact is locked securely, pull back lightly on wire. Repeat for balance of contacts, working row by row across the insulator.

CONTACT CRIMPING



Insert contact and wire into proper crimp tool (and locator, if required). Crimp contact to wire. Inspect crimp.

CONTACT EXTRACTION



 Place wire into extraction tool tip. (See above for D*MA extraction).

CONTACT INSERTION



 Center wired contact in groove of insertion tool (for size 22D also, D*MA) with tool tip butting contact shoulder. Insert contact into cavity until a positive stop is felt. Inspect insertion.



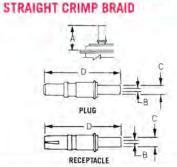
6. Insert tool tip into contact cavity until tip bottoms against contact shoulder, releasing tines. Hold wire against tool with finger and remove tool and contact, Repeat for balance of contacts.

COAXIAL, HIGH POWER AND HIGH VOLTAGE CONTACTS

For coax, assembly instructions and insertion/extraction see page 45.

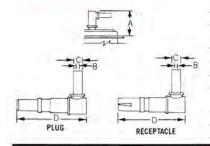
MARK III COAXIAL CONTACTS

Color Code: Receptacle - Blue; Plug - Red



	Part Number						RG Ca	ble No.	
	Std. Finish	Mil. Finish*	Max.	(0.12)	(0.12)	Ref.	Old	New	
Plug	DMA43717	DMA43717-4	.805(20.44).	.040(1.02)	125(3.18)	1.019(25.88)	196/U	178B/U	
Plug	DMA43717-1	DMA43717-5	.805(20.44)	.067(1.70)	156(3.96)	1.019(25.88)	187/U 188/U	316B/U 179B/U	
Plug	DMA43717-2	DMA43717-6	.805(20.44)	.110(2.79)	235(5.97)	1.019(25.88)	195/U	180B/U	
Plug	DMA43717-3	DMA43717-7	.805(20.44)	125(3.18)	.235(5.97)	1.019(25.88)	58/U	58B/U	
Receptacle	DMA43716	DMA43716-4	.805(20.44)	.040(1.02)	125(3.18)	1.006(25.55)	196/U	178B/U	
Receptacle	DMA43716-1	DMA43716-5	.805(20.44)	.067(1.70)	156(3.96)	1.006(25.55)	187/U 188/U	316B/U 179B/U	
Receptacle	DMA43716-2	DMA43716-6	.805(20.44)	.110(2.79)	.235(5.97)	1.006(25.55)	195/U	180B/U	
Receptacle	DMA43716-3	DMA43716-7	.805(20.44)	.125(3.18)	235(5.97)	1.006(25.55)	58/U	58B/LI	

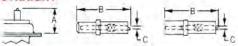
RIGHT ANGLE CRIMP BRAID



	Part N Std. Finish	lumber Mil. Finish*	A Max.	B ±.005 (0.12)	C ±.005 (0.12)	D Ref.	RG Ca Old	able No. New
Plug	DMA43719	DMA43719-4	.703(17,85)	.040(1.02)	125(3.18)	922(23.42)	196/U	178B/U
Plug	DMA43719 1	DMA43719-5	703(17.85)	067(1.70)	156(3.96)	.922(23.42)	187/U 188/U	316B/U 179B/U
Plug	DMA43719-2	DMA43719-6	.703(17:85)	110(2.79)	.235(5.97)	922(23.42)	195/U	180B/U
Plug	DMA43719-3	DMA43719-7	.703(17.85)	.125(3.18)	.235(5.97)	922(23,42)	58/U	58B/U
Receptacle	DMA43718	DMA43718-4	703(17.85)	.040(1.02)	.125(3.18)	910(23.11)	196/U	178B/U
Receptacle	DMA43718-1	DMA43718-5	703(17.85)	067(1 70)	.156(3.96)	910(23.11)	187/U 188/U	316B/U 179B/U
Receptacle	DMA43718-2	DMA43718-6	703(17.85)	.110(2.79)	.235(5.97)	.910(23.11)	195/U	180B/U
Receptacle	DMA43718-3	DMA43718-7	.703(17.85)	.125(3.18)	.235(5.97)	.910(23.11)	58/U	58B/U

MARK III HIGH VOLTAGE CONTACTS

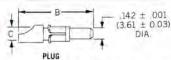


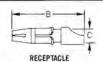


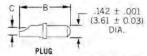
	Part	Part Number A B				Wire	Extraction
	Std. Finish	Mil. Finish*	Max.	Ref.	(0.12)	Size	Tool
Plug	DMA44157	DMA44157-2	.539(13.70)	.734(18.60)	.045(1.10)	20	274-7003-000
Receptacle	DMA44159	DMA44159-2	.539(13.70)	.734(18.60)	.045(1.10)	20	274-7003-000

MIL-C-24308 Finish: 0.00005/0.00127 Minimum Gold Plate over Copperplate (ITT Cannon Code A156)

MARK III POWER CONTACTS



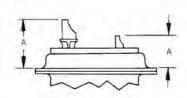






(Size 0808 Wire Accommodation)

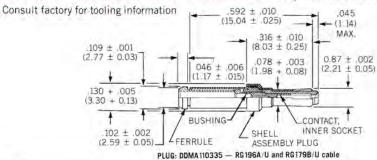
(Size 0812 and 0816 Wire Accommodation)

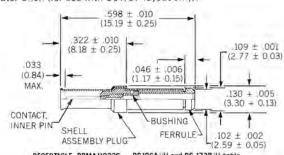


	Part Number		Part Number A B			В	C +.005(0.13)	Wire	Current	Extraction	
	Standard Finish	Military Finish*	Max.	Ref.	004(0.10)	Size	(Amps)	Tool			
Plug	DMA44348	DMA44348-1	.800(20.32)	1.000(25,40)	.188(4.78)	#8	40	None Reg'd,			
Plug	DMA44349	DMA44349-1	.500(12.70)	.697(17.70)	112(2.84)	#12	20	274-7003-000			
Plug	DMA44350	DMA44350-1	.500(12.70)	697(17.70)	.069(1.75)	#16	10	274-7003-000			
Receptacle	DMA44351	DMA44351-1	.800(20.32)	.993(25.22)	.188(4.78)	#8	40	None Regid.			
Receptacle	DMA44352	DMA44352-1	.500(12.70)	.690(17.53)	.112(2.84)	#12	.20	274-7003-000			
Receptacle	DMA44353	DMA44353-1	,500(12.70)	,690(17.53)	.069(1.75)	#16	10	274-7003-000			

*MIL-C-24308 Finish: 0.00005/0.00127 Minimum Gold Plate over Copperplate (ITT Cannon Code A156)

MARK II SHIELDED #16 CONTACTS Crimp Inner Contact and Outer Shell (for use with 30WS7 layout only).





RECEPTACLE: DDMA110336 - RG196A//U and RG 173B/U cable





MARK III COAXIAL, HIGH POWER AND HIGH VOLTAGE CONTACTS INSERTION/EXTRACTION

Contact partially inserted.

Tines snap behind contact shoulder when contact is fully inserted.

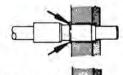
No insertion tools are required for the coaxial contact, size 8 high power contacts, and sizes 12 and 16 high power and high voltage contacts.

Insertion Procedure:

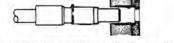
Push the contact into the rear of the connector. Tines will snap behind the contact shoulder when the contact is fully inserted.

EXTRACTION

Depress flange of built-in extraction tool until flush with rear of insulator.



Contact being pulled from connector.



A separate extraction tool is not required for the coaxial contact or the size 8 high power contacts. The tool is an integral part of the contact.

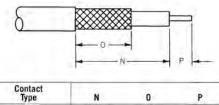
Extraction Procedure:

Depress flange of built-in extraction tool until it is flush with the rear of the insulator. Contact can then be pulled from the connector. For extraction of sizes 12 and 16 high power and high voltage contacts the extraction tool 274-7003-000 is recommended.

MARK III COAX CABLE ASSEMBLY

TRIM DIMENSIONS

Trim coaxial cable to these dimensions for installation to D*MA coaxial contacts.



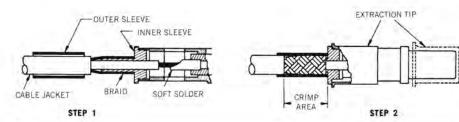
Contact Type	N	0	P
Straight	354(8.99)	.190(4.83)	090(2,29)
Right Angle	.316(8.03)	.190(4.83)	062(1.57)

CRIMP TOOLING

RG Ca	ble No.	Tool P/N	Description	Closure
196/U	178 B/U	070051-0000	CCT-DM	-C
187/U 188/U	179 B/U 316 B/U	070051-0000	CCT-DM	В
195/U 58/U	180 B/U 58 B/U	070051-0000	CCT-DM	A

ASSEMBLY INSTRUCTIONS

STRAIGHT COAXIAL



Straight Type:

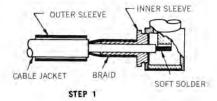
STEP

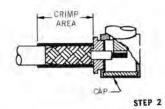
Slide outer sleeve over cable jacket and trim cable. Insert-cable dielectric and center conductor into inside dimension of inner sleeve. Solder center conductor to coaxial center contact.

STEP :

Slide outer sleeve forward until flush with inner sleeve to confine braid. Crimp outer sleeve, using crimp tool CCT-DM. Crimp as close as possible to the inner sleeve shoulder. Push extraction tip over the coaxial (as shown) until it rests against the inner sleeve shoulder.

90° COAXIAL





90 ° Angle Type STEP 1

Slide outer sleeve over cable jacket and trim cable, Insert cable dielectric and center conductor into inside dimension of inner sleeve. Solder center conductor to coaxial center contact.

STEP 2

Slide outer sleeve forward until flush with coaxial shell, confining braid between outer and inner sleeves. Crimp in area shown. Soft solder cap in place.



GROMMET-D

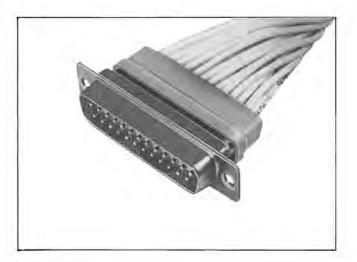
GD* connectors are ideal for aerospace, military, telecommunications and other applications requiring environmental protection and high reliability.

ITT Cannon developed GD* connectors to meet the needs of the avionics industry. These connectors provide high-density and moisture protection.

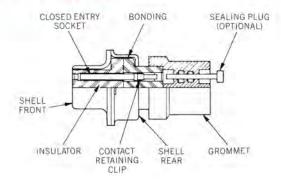
Environmental protection is accomplished by the resilient grommet, interfacial seal, and bonded connector components.

ITT Cannon is the first and only connector manufacturer to offer a crimp-removeable environmental series with M24308 compatibility.

- Environmental Protection
- MIL-C-24308 Compatibility
- Reliability and Versatility



DESIGN FEATURES



SOCKET CONNECTOR

INSULATOR BONDING SEALING PLUG (OPTIONAL)

PIN CONTACT
SHELL FRONT

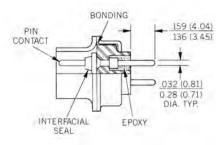
INTERFACIAL CONTACT SHELL GROMMET SEAL RETAINING REAR CLIP

PIN CONNECTOR

- . Resilient silicone grommets for wire sealing
- · Interfacial seals
- · Closed-entry socket contacts
- . Bonded components to prevent moisture seepage
- · Optional sealing plugs

- . Uses M39029 type contacts and termination tooling
- . Intermateable with most M24308 type connectors
- · Rear-release cimp contacts
- LITTLE CAESAR® contact retention assembly

PRINTED CIRCUIT APPLICATIONS



GD* Pin connectors are available with pre-loaded, non-removeable contacts for P.C. board termination. Typical Part No. GDB-25PB. Environmental sealing is accomplished by application of epoxy to each contact cavity, interfacial seals, and bonded connector components.



STANDARD DATA MATERIALS AND FINISHES

	Materials	Finishes
Shell	Low carbon steel per ASTM-A-620	Cadmium per QQ-P-416
Insulator	Diallyl phthalate per MIL-M-14 type SDG-F or GDI-30F	
Contacts	Copper alloy	Standard finish: Gold over nickel A156 Finish: Gold over copper per MIL-C-24308
Float Mount Hardware	Stainless steel	Passivated
Grommets and Seals	Silicone elastomer	
Bonding Materials	Ероху	_

MECHANICAL FEATURES

Wire Accommodation — Contact: #20, #22, #24 AWG (.071 (1.80) maximum, .038 (0.97) minimum, O.D. wire)

Contact Retention - 9 lbs. minimum (40N) after 10 insertions

ELECTRICAL DATA

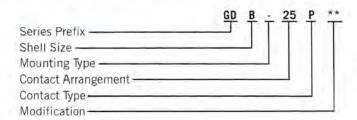
Test Voltage AC RMS 60 Hz

	Sea Level	20,000 Ft.	50,000 Ft.	70,000 Ft.
Average Flashover	1,000	1,000	500	500
Test	1,000	650	325	325

Maximum Current Carrying Capacity of Contacts — #20 Contacts: 5 Amps

Temperature Range - -65°C to +150°C (-53.9°F to +302°F)

HOW TO ORDER



SERIES PREFIX

GD - Grommet D

SHELL SIZE

E, A, B, D

MOUNTING TYPE

No Designator — .120 (3.05) Diameter Mounting Holes

F - Float Mount for Rear Panel Mounting

K — .154 (3.91) Diameter Mounting Holes

CONTACT ARRANGEMENTS

9, 15, 25, and 50

CONTACT TYPE

P - Pin, crimp termination

S - Socket, crimp termination

PB — Pin, printed circuit termination with non-removeable straight tails for .125 (3.18) maximum P.C. Board Thickness

MODIFICATIONS (Typical Modifiers)

FO — Connectors supplied Less Contacts

A156 — Connectors supplied with contacts plated per MIL-G-45204 Type II Class 1 (M24308 Finish)

PERFORMANCE SPECIFICATIONS

GD* Connectors meet all applicable requirements of MIL-C-24308. The following are excerpts from ITT Cannon Test Report C82-78 applicable to environmental D Subminiature GD* series connectors. Refer to MIL-C-24308 Test Extracts on page 67.

Test Description	Test Method	Results
Moisture Resistant	MIL-STD-1344 Method 1002.1 Type II	No deterioration of performance. Insulation resistance greater than 100 megohms. No evidence of flashover or breakdown during 1000 VAC DWV testing.
Fluid Immersion	20 hours immersion in hydraulic fluid per MIL-H-5606 and lubricating fluid per MIL-L-23699.	No detrimental damage. Able to meet requirements of mating and unmating forces test
Immersion	Two hours immersion in tap water at a depth of 36.00 (914.40) in mated condition, per MIL-STD 810, Method 512, Procedure 1.	While still immersed, the mated connectors exceeded 100 megohm insulator resistance and exhibited no evidence of breakdown or flashover during 1000 VAC (RMS) DWV testing.

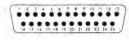
Dimensions are subject to change

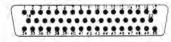


CONTACT ARRANGEMENTS (FACE VIEW PIN INSERT)









Shell Size Contact Arrangement Contact Size **E** 9 #20 A 15 #20 8 25 #20 50 #20

ACCESSORIES

SEALING PLUGS: GD* grommets are designed to accept MS27488-20 sealing plugs, ITT Cannon P/N 225-0070-000 ordered separately. LOCKING HARDWARE, DUST CAPS: GD* Connectors will accommodate most standard D Subminiature accessories. JUNCTION SHELLS: Consult factory. Junction shell ordering information is found in the accessories section of the catalog, see pages 56-59.

CONTACTS

Finish	Total	ITT Cannon	Military
Finish Standard	Type Pin #20	Part Number 330-5291-000	Part Number
Gold/Nickel	Socket #20	031-1007-000	
A156	Pin #20	330-5291-037	M39029/64-369
Gold/Copper	Socket #20	031-1007-042	M39029/63-368

TOOLING

HAND CRIMP TOOLS



M22520/2-01 with M22520/2-08 locator. Semi-automatic and fully automatic tooling is also available.

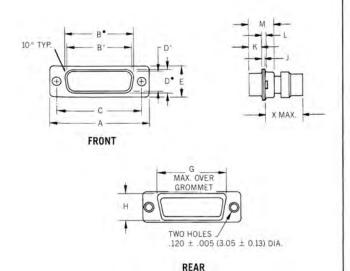
INSERTION/EXTRACTION TOOL (Plastic)

Contact	ITT Cannon	ITT Cannon	Insertion	Extraction
Size	Description	Part Number	Color Tip	Color Tip
#20	CIET-20HDL	274-7010-000	White	Green

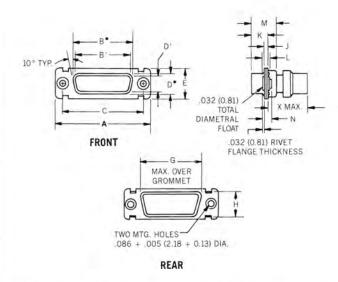


SHELL DIMENSIONS

STANDARD SHELL



SHELL WITHOUT FLOAT MOUNTS



It is recommended that only one assembly, either pin or socket, be float mounted. For front panel mounting use reverse float mount.

INCHES

Part Number	A	B•	B'	C	D•	D'	E	G	H•	J	K	L	M	N	X
by Shell Size	± .015	± .010	± .010	± .005	± .010	± .010	± .015	Max.	± .010	± .010	± .010	± .010	± .015	± .010	Max.
GDE-9P	1.213	-	.666	.984	-	.329	494	.750	.422	.030	.236	045	.422	120	718
GDE-9S	1.213	.640	_	.984	.308	-	.494	.750	.422	.030	.243	.045	.429	.120	.718
GDA-15P	1.541	~	.994	1.312	-	.329	494	1.093	422	.030	.236	.045	422	120	718
GDA-15S	1.541	.958	_	1.312	.308	-	.494	1.093	.422	.030	.243	.045	.429	.120	.718
GDB-25P	2.088	-	1.534	1.852		.329	494	1.625	.422	.039	.231	.060	426	129	718
GDB-25S	2.088	1.508	_	1.852	.308	_	.494	1.625	.422	.030	.243	.045	-429	.120	.718
GDD-50P	2.635	-	2.079	2.406		.436	-605	2.162	.534	.039	.231	.060	.425	.129	.718
GDD-50S	2.635	2.062	-	2.406	.420	-	.605	2.162	.534	.030	.243	.045	.429	.120	.718

MILLIMETERS

Part Number	A ± 0.38	B• ± 0.25	B' ± 0.25	C ± 0.12	D• ± 0.52	D' ± 0.38	E ± 0.38	G Max.	H• ± 0.25	J ± 0.25	K ± 0.25	L ± .025	M ± 0.38	N ± 0.25	X Max.
GDE-9P	30.81	16.91	-	24.99	-	8.36	12.55	19.05	10.72	0.76	5.99	1.14	10.72	3.05	18.24
GDE-9S	30.81	-	16.25	24.99	7.82	-	12.55	19.05	10.72	0.76	6.17	1.14	10.90	3.05	18.24
GDE-15P	39.14	25.24	7-	33.32	-	8.36	12.55	27.76	10.72	0.76	5.99	1.14	10.72	3.05	18.24
GDA-15S	39.14	_	24.58	33.32	7.82	_	12.55	27.76	10.72	0.76	6.17	1.14	10.90	3.05	18.24
GDB-25P	53.03	38.96	-	47.04	-	8.36	12.55	41.28	10.72	0.99	5.87	1.52	10.82	3.28	18.24
GDB-25S	53.03	_	38.30	47.04	7.82	-	12.55	41.28	10.72	0.76	6.17	1.52	10.90	3.05	18.24
GDD-50P	66.92	52.81	-	61.11	-	11.07	15.37	54.91	13.56	0.99	5.87	1.52	10.82	3.28	18.24
GDD-50S	66,92		52.37	61.11	10.87	-	15.37	54.91	13.56	0.76	6.17	1.52	10.90	3.05	18.24

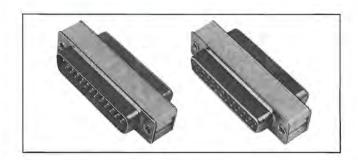
^{*}Dimensions B, D, G, and H are measured as outside dimensions at the bottom of draw.

NOTE: B • and D • are the outside dimensions for socket side, B' and D' are the inside dimensions for pin side.

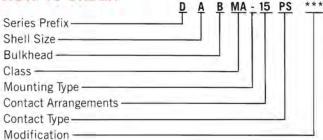


BULKHEAD

The D*BMA feed-thru bulkhead connector is used when it is desirable to connect and disconnect a cable on both sides of a bulkhead or panel. This connector can also be used as a connector saver in test equipment applications where more than normal mating and unmating would soon degrade a permanently mounted connector. If features the industry proven LITTLE CAESAR® rear release contact retention assembly, making it field repairable.







SERIES PREFIX

D — ITT Cannon Designation

SHELL SIZE

E, A, B, C and D

BULKHEAD

B CLASS

MA — LITTLE CAESAR rear release contact retention assembly

MOUNTING TYPE

No designator - 120 (3.05) thru hole

N - #4-40 UNC-2B thru threads

CONTACT ARRANGEMENTS

9, 15, 25, 37 and 50 (See page 48)

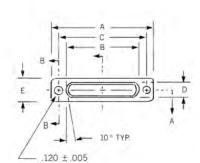
CONTACT TYPE

PS - Pin/Socket

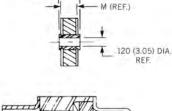
MODIFICATION

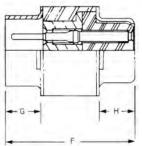
See page 72 for modification codes

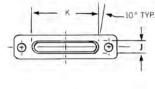
SHELL DIMENSIONS



(3.05 ± .127)







INCHES

Part Number by Shell Size	A ± .015	B ± .010	C ± .005	D ± .010	E ± .015	F ± .010	G ± .010	H ± .010	J ± .010	K ± .010	L ± .015	M ± .010
DEBMA-9PS	1.213	.697	.984	.360	.494	.861	.236	.243	308	640	417	.388
DABMA-15PS	1.541	1.025	1.312	.360	.494	.861	.236	.243	.308	.968	.417	.388
DBBMA-25PS	2.088	1.583	1.852	378	494	865	.231	.243	.308	1.508	417	,388
DCBMA-37PS	2.729	2,231	2.500	.378	.494	.865	.231	.243	308	2.156	.417	.388
DDBMA-50PS	2.635	2.127	2.406	484	605	.865	231	243	420	2.062	417	388

MILLIMETERS

Part Number by Shell Size	A ± 0.38	B ± 0.25	C ± 0.13	D ± 0.25	E ± 0.38	F ± 0.25	G ± 0.25	H ± 0.25	J ± 0.25	K ± 0.25	£ 0.38	M ± 0.25
DEBMA-9PS	30.81	17.70	24.99	9 14	12.55	21.87	5,99	6.17	7 82	16,26	10.59	9.86
DABMA-15PS	39.14	26.04	33.32	9.14	12.55	21.87	5.99	6.17	7.82	24.59	10.59	9.86
DBBMA-25PS	53.04	40.21	47.04	9.60	12.55	21 97	5.87	6.17	7.82	38.30	10.59	9.86
DCBMA-37PS	69.29	56.67	63.50	9.60	12.55	21.97	5.87	6.17	7.82	54.76	10.59	9.86
DDBMA-50PS	66.93	54.03	61.11	12.29	15,37	21.97	5.87	6.17	19.67	52.37	10.59	9.86



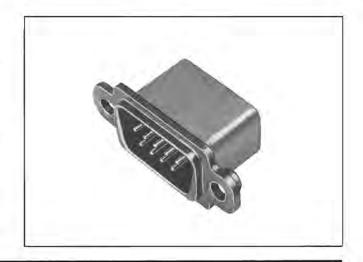
D*D ENVIRONMENTAL

The Cannon D*D Environmental Series is designed to meet the demand for sealed subminiature rectangular plugs with superior vibration and moisture resistance characteristics for aircraft, missile, and ground support equipment applications.

Featuring a rugged aluminum shell and peripheral seal, the D*D Connector meets all applicable requirements of MIL-C-24308. Available in both solder and crimp versions, all assemblies are provided with nylon potting cups and dust caps.

Solder type contacts are non-removable and are factory-installed. Crimp type connectors utilize the field-proven LITTLE CAESAR rear insertion, rear-release retention system.

PLEASE NOTE: The D*D Series is not intermateable with other D Subminiature connectors.



STANDARD DATA

Shell	Aluminum, cadmium plated with yellow chromate supplementary coating.
Contacts	Solder pot: Copper alloy, gold plated .00002 (0.0005) over nickel .00004 (0.0010). Crimp type: Copper alloy, gold plated .00002 (0.0005) over nickel .00004 (0.0010).
Insulator	Diallylphthalate, per MIL-M-14, Type MDG or SDG-F.
Contact Termination	Solder pot accommodating up to #20 AWG stranded wire. Crimp type accommodating #20, #22, and #24 AWG stranded wire.
Socket Type	Closed entry
Float Mounting Rivets & Washers	Stainless steel

TEST DATA

	Specifications
Voltage Rating	All voltage figures are AC (rms), 60 cps. measured at approximately 25.0 °C 50% RH.
Insulation Resistance (per MIL-C-24308)	Greater than 5,000 megohms, determined in accordance with MIL-STD-202A, Method 302.
Contact Voltage Drop	2.67 millivolts, maximum, per amp.
Contact Separation Force	1 to 8 ounces when tested in accordance with MIL-C-24308.
Air Leakage	When properly wired and potted, 1 cubic inch of air per hour max. when subjected to 30 PSI pressure differential in accordance with MIL-C-5015D, Paragraph 4.5.3.1.
Vibration (per MIL-C-24308)	Exceeds test requirements of MIL-STD-202A, Method 204, Condition D.†
Corrosion Resistance (per MIL-C-24308)	Exceeds requirements of 50 hour exposure to salt spray in accordance with MIL-STD-202A, Method 101A, Condition B.
Moisture Resistance (per MIL-C-24308)	Exceeds requirements of MIL-STD-202A, Method 106.
Shock	Exceeds requirements of MIL-STD-202A, Method 213, Condition G
Environmental Seal	Effective from full engagement to 1/16 short of full engagement.
Contact Retention Force	(Crimp type) 8 pounds (35.6 newtons) minimum for first cycle; 5 pounds (22.2 newtons) minimum after tenth cycle.
Standard Layout Plugs	Measured from contact-to-contact, and contact-to-shell in unmated condition.

	ALTITUDE (FEET)							
	Sea Level	20,000	50,000	70,000				
Average Flash- over	1700	1000	650	500				
Test	1250	750	475	375				



HOW TO ORDER SOLDER CUP TERMINALS

Series Prefix — D A D-15 S AShell Size — Class — Contact Arrangement — Mounting Style — Modification — D A D-15 S A
Modification — D A D-15 S A
D A D-15 S A
D A D-15 S A
Modification — D A D-15 S A
Modifi

SERIES PREFIX

ITT Cannon Designation

SHELL SIZE

A, B, C, D, E

CLASS

D — Environmental

CONTACT ARRANGEMENT

9, 15, 25, 37, 50

CONTACT TYPE

P - Pin

S - Socket

MOUNTING STYLE

A — Standard mounting holes
 B — Float mounts supplied

MODIFICATION

Consult factory

SNAP-IN CRIMP TERMINALS

Series Prefix —	D A DAF- 15P- FO
Shell Size	-12/19/19/19
Class —	
Mounting Style —	
Contact Arrangements —	
Contact Type —	
Modification-	

SERIES PREFIX

ITT Cannon Designation

SHELL SIZE

A, B, C, D, E

CLASS

DA - Environmental, crimp type

MOUNTING STYLE

No Designator — Standard mounting

F - Float mounts supplied

CONTACT ARRANGEMENTS

9, 15, 25, 37, 50

CONTACT TYPE

P - Pin

S - Socket

MODIFICATION

FO — Connector supplied less contacts, for other modifications consult factory

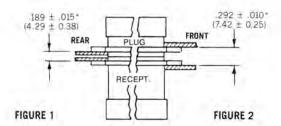
CONTACT ARRANGEMENTS (Face View Pin Insert)

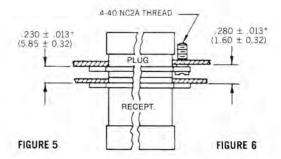
B 25 #20

Shell Size Contact Arrangement Contact Size **C** 37 #20 0 50 #20



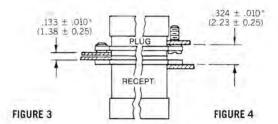
MOUNTING DIMENSIONS

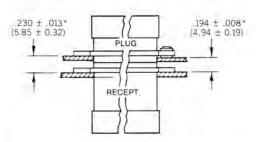




NOTE: Max panel thickness is .125(3.17) for non-floating rear panel mounting.

- With both connectors rear mounted, use #4-40 flat head screws flush with the panel (Fig. 1).
- With both connectors front mounted, use #4-40 binder or pan head screws (Fig. 2).
- With both connectors rear mounted (float rivets on plug assembly side), use #4-40 flat head screws, flush with the panels (Fig. 3).
- With both connectors front mounted (plug assembly has float mounting screw), use #4-40 binder or pan head screws for receptacle assembly (Fig. 4).
- With plug assembly front mounted and receptacle assembly rear mounted, use hardware from Figures 1 and 2.

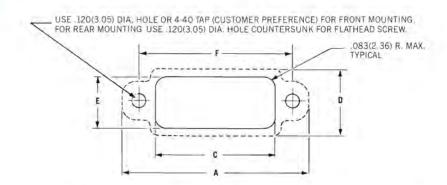




- With plug assembly front mounted and receptacle assembly rear mounted (plug assembly has float mounting screw), use hardware from Figure 1 for receptacle assembly.
 - *Dimensions between panels represent the recommended limit to be used in the design of the connector mounting method.
- With plug assembly rear mounted and receptacle assembly front mounted, use hardware from Figures 1 and 2.
- With plug assembly rear mounted (float rivets) and receptacle assembly front mounted, use hardware from Figures 2 and 3.
- Electrical contact engagement when mounted per Figure 1 is .046 (1.17) min./.070 (1.78) max.

NOTE: Float rivets are for rear mounting only and float screw for front mounting only. (Specify when ordering.)

PANEL CUTOUTS



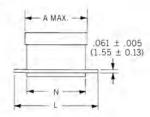
	A	C	D	E	F
Shell Size	± .010	Min.	± .010	Min.	± .006
DED-9	1.442(36.63)	889(21.31)	.814(15.60)	497(12,62)	1.125(28.58)
DAD-15	1.755(44.58)	1.157(29.39)	.614(15.60)	.497(12.62)	1.437(36.50)
DBD-25	2.295(58:29)	1.697(43.10)	.614(15.60)	.497(12:62)	1.993(50.62)
DCD-37	2.937(74,60)	2.357(59.87)	.614(15.60)	.497(12.62)	2.625(66.68)
DDD-50	2.859(72.62)	2.265(57.53)	.735(18.67)	.610(15.49)	2.531(64.29)

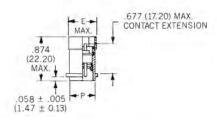
Add .032(0.81) to dimensions C and E for float mounting. Note: Panel cutout does not allow for potting cup clearance.

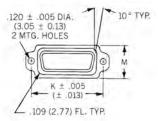
SHELL DIMENSIONS

STANDARD MOUNT

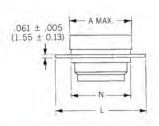


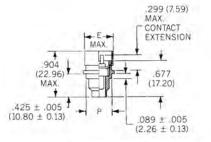


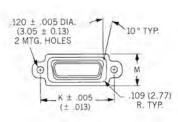




PLUG

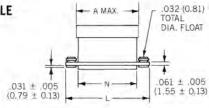


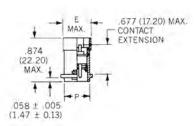


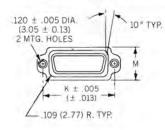


FLOAT MOUNT

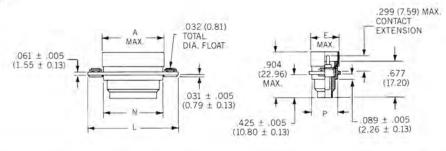
RECEPTACLE

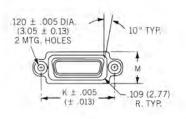






PLUG





NOTE: All D*D Environmental plugs and receptacles are provided with dust caps and removable potting cups.

Part Number by Shell Size	Α	E	К	-1	М	N	P
DED-9P	915(23,24)	596(15.14)	1.125(28.58)	1.442(36.63)	.614(15.60)	.825(20.86)	.483(12.27)
DED-9S	.915(23,24)	,596(15.14)	1.125(28.58)	1.442(36.63)	.614(15.60)	.825(20,86)	.483(12.27)
DAD-15P	1.233(31.32)	-596(15.14)	1.437(36.50)	1.755(44.58)	.614(15.60)	1.143(29.03)	.483(12.27)
DAD-15S	1.233(31.32)	.596(15.14)	1.437(36.50)	1.755(44.58)	.614(15.60)	1.143(29.03)	.483(12.27)
DBD-25P	1.786(45.36)	.596(15.14)	1.993(50.62)	2.295(58.29)	614(15.60)	1.683(42.75)	.483(12.27)
DBD-25S	1.786(45.36)	.596(15.14)	1.993(50.62)	2.295(58.29)	.614(15.60)	1.683(42.75)	.483(12.27)
DCD-37P	2.458(62.43)	567(14.40)	2.625(55.68)	2.937(74.60)	.614(15.60)	2.343(59.51)	483(12.27)
DCD-37S	2.458(62.43)	.567(14.40)	2.625(55.68)	2.937(74.60)	.614(15,60)	2.343(59,51)	.483(12.27)
DDD-50P	2.390(60.71)	.680(17.27)	2.531(64.29)	2.859(72.62)	.735(18.67)	2 251(57 18)	.596(15.14)
DDD-50S	2.390(60.71)	.680(17.27)	2.531(64.29)	2.859(72.62)	.735(18,67)	2.251(57.18)	.596(15.14)

All tolerances are ± .010(0.24) unless noted otherwise.





CONTACT CRIMPING INFORMATION

CRIMP TYPE CONTACTS

Contact	Wire Size	Standar	d Finish	Military Finish		
Size	Accom.	Pin	Socket	Pin	Socket	
20	20, 22, 24	330-5291-015	031-1007-000	330-5291-079	031-1007-042	

INSERTION/EXTRACTION TOOLS



CIET-20-HD

Contact		Plastic Inserti	on/Extraction	Plastic E	xtraction
Size	AWG	Part No.	Description	Part No.	Description
20	20, 22, 24	274-7006-000	CIET-20HD	323-7010-000	CET-20-11





HAND CRIMP TOOLS

Contact Size		Crimp	Tool	Locator		
	AWG	Part No.	Description	Part No.	Description	
20	20	20, 22, 24	995-0001-584	M22520/2-01	995-0001-604	M22520/2-08
20	20, 22, 24	995-0001-585	M22520/1-01	995-0001-244	TH25	

SEMI-AUTOMATIC CRIMP MACHINES



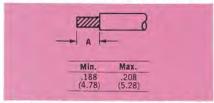
CBT 491

For volume applications the CBT-491 is a vibra-bowl, pneumatically operated crimper offering a more economical approach than belt-fed crimpers. Available for lease or purchase, this machine is designed for use with a wide variety of machined contacts. The MIL-Spec crimp is accomplished at the press of a foot pedal, assuring minimum cycle times and maximum performance.

For lower volumes the CBT-565 is a pneumatically operated bench tool delivering MIL-Spec crimps with minimal operator fatigue.

When you think crimp think Cannon!

ASSEMBLY INSTRUCTIONS



1. Cut wires to length. Strip insulation per above illustration. Check for broken or frayed wires.

4. To be sure contact is locked securely, pull back

lightly on wire. Repeat for balance of contacts,

working row by row across the insulator.

CONTACT CRIMPING



2. Insert contact and wire into proper crimp tool (and locator, if required). Crimp contact to wire. Inspect crimp.

CONTACT INSERTION



Center wired contact in groove of insertion tool with tool tip butting contact shoulder. Insert contact into cavity until a positive stop is felt. Inspect insertion.

CONTACT EXTRACTION

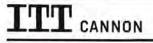


Place wire into extraction tool tip. (See above for extraction).



6. Insert tool tip into contact cavity until tip bottoms against contact shoulder, releasing tines. Hold wire against tool with finger and remove tool and contact. Repeat for balance of contacts.

Dimensions are subject to change



ACCESSORY APPLICATION GUIDE

	D*	D*C/D*U	D*SF	D*P	D*PF	D*M	D*MA	Page No.
JUNCTION SHELLS—METAL Round Clamp	•	•				•		56
Straight Clamp						•		5.7
Deep Straight Clamp			1					57
Right Angle		•				•		57
JUNCTION SHELLS—PLASTIC Click	•	•				•	•	58
Universal		•						58
Data Phone								58
Ribbon Cable						1		58
J/S with Locking Mechanism		•						59
Plastic Straight		•	1 -			•		59
Plastic Right Angle		•						59
JUNCTION SHELLS—SHIELDED RFI Shielded/Shrouded	•					•		60
Die-Case Straight/90°		•				•	•	60
Plated Plastic Straight/45°		•				•		60
POTTING SHELLS—METAL	•	•				•	•	60
POTTING SHELLS—PLASTIC	•	•				•	•	60
SWITCHING SHELLS		•				•	•	60
SLIDE LOCKS		•	•		•	•	•	61
SCREW LOCKS		•	•	•		•		61
JACKSCREWS		•				•	•	61
SPRING LATCHES		•	- 0	•	•	•	•	62
GUIDE PIN PLATES		•	•			•	•	62
POLARIZING PLATES		•						63
GASKETS		•	•					63
DUST CAPS					•	•		63

Indicates accessory is compatible with connector series.

NOTE: For D*M and D*MA coax, high power and high voltage applications, consult factory for appropriate Junction Shells.

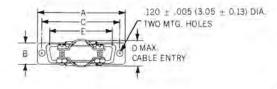
CONVERSION CHART FOR DIMS. TOL.

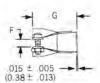
Inches	.002	.005	.008	.010	.012	.015	.020	.025	.030	.032
Millimeter	0.05	0.13	0.02	0.25	0.30	0.38	0.51	0.64	0.76	0.81

All tolerances are \pm .010(0.3) unless noted otherwise.

JUNCTION SHELLS—METAL **ROUND CLAMP**







Material: Low carbon steel.

Finish: Cadmium plate, yellow chromate.

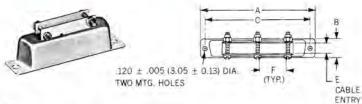
Corrosion Resistance: Passes 50-hour exposure to salt spray in accordance with MIL-STD-202A, Method 101A, Condition B.

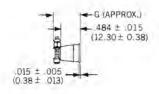
Part Number by Shell Size

7.44	1 10 3-1-1	A	В	C	D	E	F	G
Cannon	Mil. Spec	± .015 (0.38)	± 015 (0.38)	±.005 (0.13)	MAX.	± .015 (0.38)	±.015 (0.38)	±.030 (0.76)
DE 44994	M85049/48-2-1	1,208(30,7)	.500(12.7)	.984(25.0)	.406(10.3)	.661(16.8)	.125(3.2)	1.031(26.2)
DA 20961	M85049/48-2-2	1.531(38.9)	.500(12.7)	1.312(33.3)	.406(10.3)	.984(25.0)	.125(3.2)	1,031(26.2)
DB 20962	M85049/48-2-3	2.078(52.8)	.500(12.7)	1.852(47.0)	.593(15.1)	1.515(38.5)	.187(4.7)	1.062(27.0)
DC 20963	M85049/48-2-4	2.718(69.0)	.500(12.7)	2.500(63.5)	.718(18.2)	2.171(55.1)	.250(6.3)	1.062(27.0)
DD 20964	M85049/48-2-5	2.625(66.7)	.609(15.5)	2.406(61.1)	.812(20.6)	2.093(53.2)	.312(7.9)	1.062(27.0)

JUNCTION SHELLS-METAL (Continued)

STRAIGHT CLAMP





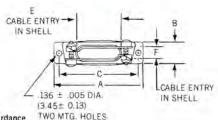
Material: Low carbon steel. Finish: Cadmium plate, yellow chromate. Corrosion Resistance: Passes 50-hour exposure to salt spray in accordance with MIL-STD-202A, Method 101A, Condition B.

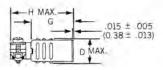
Part Number by Shell Size

Cannon	Mil. Spec.	No. of Cable Locking Screws Read.	A ± .015 (0.38)	B ±.015 (0.38)	£ .005 (0.13)	E ± .015 (0,38)	F ± .015 (0.38)	G
DA 19678-1	M85049/48-3-2	2	1.531(38.9)	.500(12.7)	1.312(33.3)	.296(7.5)	.312(7.9)	.640(16.2)
DB 19678-2	M85049/48-3-3	2	2.078(52.8)	.500(12.7)	1.852(47.0)	.296(7,5)	.796(20.2)	.640(16.2)
DC 19678-3	M85049/48-3-4	3	2.718(69.0)	.500(12.7)	2.500(63.5)	.296(7.5)	.687(17.4)	.640(16.2)
DD 19678-4	M85049/48-3-5	3	2.625(66.7)	.609(12.7)	2.406(61,1)	.390(9.9)	.687(17.4)	.703(17.8)

DEEP STRAIGHT CLAMP







Material: Low carbon steel Finish: Cadmium plate, yellow chromate.

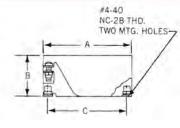
Corrosion Resistance: Passes 50-hour exposure to salt spray in accordance with MIL-STD-202A, Method 101A, Condition B.

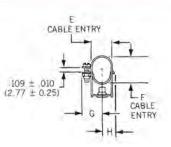
Part Number by Shell Size

Cannon	Mil. Spec.	±.015 (±0.38)	±.015 (±0.38)	± .010 (± 0.25)	MAX.	± .015 (± 0.38)	± .015 (± 0.38)	£.015 (±0.38)	MAX.
DE 24657	M85049/48-1-1	1.203(30,6)	.484(12.3)	.984(25.0)	.578(14.7)	.375(9.5)	.375(9,5)	.750(19.0)	1.250(31.7)
DA 24658	M85049/48-1-2	1.531(38,9)	.484(12.3)	1.312(33.3)	.578(14.7)	.713(18.1)	.312(7,9)	.750(19,0)	1.250(31,7)
DB 24659	M85049/48-1-3	2.078(52.8)	.484(12.3)	1,852(47.0)	.578(14.7)	1.000(25.4)	.312(7.9)	1.000(25.4)	1.563(39.7)
DC 24660	M85049/48-1-4	2.718(69.0)	.484(12.3)	2.500(63.5)	.578(14.7)	1.375(34.9)	.312(7.9)	1.000(25.4)	1.563(39,7)
DD 24661	M85049/48-1-5	2.625(66.7)	.593(15.1)	2.406(61.1)	.687(17.4)	1.406(35.7)	.406(10.3)	1.125(28.6)	1.688(42.9)

RIGHT ANGLE







Material: Low carbon steel Finish: Cadmium plate, yellow chromate. Corrosion Resistance: Passes 50-hour exposure to salt spray in accordance with MIL-STD-202A, Method 101A, Condition B.

Part Number by Shell Size

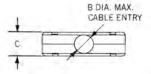
Cannon	Mil. Spec.	± .015 (± 0.38)	± .030 (± 0.76)	± .005 (± 0.13)	±.030 (±0.76)	± .030 (± 0.76)	± .030 (±0.76)	± .030 (±0.76)
DE 19977-5	M85049/50-1	1.203(30.6)	.718(18.2)	.984(25.0)	.437(11,1)	.437(11.1)	.468(11.9)	.281(7.1)
DA 19977-1	M85049/50-2	1.531(38,9)	.718(18.2)	1.312(33,3)	.437(11.1)	.437(11.1)	.468(11,9)	.281(7.1)
DB 19977-2	M85049/50-3	2.078(52.8)	.968(24.6)	1.852(47.0)	.437(11.1)	.625(15.9)	.468(11.9)	.281(7.1)
DC 19977-3	M85049/50-4	2.718(69,0)	1.187(30.1)	2.500(63.5)	.437(11.1)	.812(20,6)	.468(11.9)	.281(7.1)
DD 19977-4	M85049/50-5	2.625(66.7)	1.250(31.7)	2.406(61.1)	.562(14.3)	.906(23.1)	.531(13.5)	.343(8.7)



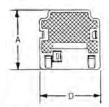
JUNCTION SHELLS—PLASTIC

CLICK







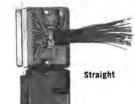


Material: Flame-retardant thermoplastic,

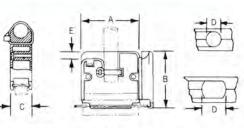
Part Number by Shell Size	±.008 (0.20)	MAX.	±.008 (0.20)	± .008 (0,20)	MAX.
DE 115339-20	1.673(42.5)	.276(7.0)	,669 (17,0)	.768(19,5)	1.555(39.5)
DA 115339-21	1.673(42.5)	.378(9.6)	.669(17.0)	1.094(27.8)	1.555(39.5)
DB 115339-22	1.673(42.5)	.457(11.6)	.669(17.0)	1.638(41.6)	1.555(39.5)
DC 115339-23	1.673(42,5)	.512(13.0)	.669(17,0)	2.283(58.0)	1.555(39.5)
DD 115339-24	1.673(42.5)	.630(16.0)	.780(19,8)	2.050(52.3)	1.555(39.5)

A 2-piece snap-together design for quick assembly. Customer furnished tie-wrap.

UNIVERSAL





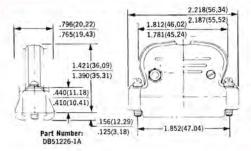


Part Number by Shell Size	±.015(±,381)	B ±.020(±,508)	C ±.020(±,508)	D ±.020(±,508)	±.010(±.254)
DE 110963-1	.765(19,431)	1.400(35,560)	.600(15.240)	.250(6,350)	.125(3,175)
DA 110963-2	1.097(27,863)	1.569(39.852)	.600(15,240)	.375(9.525)	.161(4,089)
DB 110963-3	1.641(41,681)	1.651(41,935)	.600(15,240)	.410(10,414)	.205(5,207)
DC 110963-4	2.279(57,886)	1.899(48.234)	.600(15.240)	.593(15,062)	.250(6.350)
DD 110963-5	2.063(52,400)	1.925(48,895)	.710(18,034)	.670(17,018)	.285(7,239)

Material: Junction shell — polypropylene; hardware — steel; tie-wrap — nylon.
Finish: Hardware — cadmium plate, yellow chromate.
Color: Black (junction shell).
U.L. rated 94V-2 (flame retardant)

DATA PHONE Available in DB size only.





Max. Cable Entry .312 (7.92)

Material: Junction shell — phenolic; hardware — steel.
Finish: Hardware — cadmium plate, clear chromate.
Color: Black (junction shell).
Flame Retardant

Mas/Ter-D® AND SPEEDY-D RIBBON CABLE



Material: Thermoplastic black 94-V-0; Cadmium plated steel and corrosion resistant steel for optional locking mechanism.

An optional locking mechanism is available. To order use the following part numbers:

015-8755-000 Locking hook 259-8760-000 Locking spring

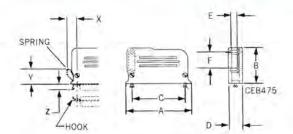
	Inches				Millim	Millimeters					
Part Number by Shell Size	±.011	±.011	±.005	±.011	±.007	±.03	B ±.03	±.013	D ±.03	±0.2	
DE 115386-1B	1.602	1.574	0.984	0.629	0.590	40.7	40	25.0	16	15.0	
DA 115386-2B	1.929	1.574	1.311	0.629	0.917	49.0	40	33.3	16	23.3	
DB 115386-3B	2.468	1.574	1.850	0.629	1.456	62.7	40	47.0	16	37.0	
DC 115386-4B	3.118	1.574	2.490	0.629	2.106	79.2	40	63.5	16	53.5	

CABLE (3.05 ± 0.20)

JUNCTION SHELLS—PLASTIC (Continued) WITH LOCKING MECHANISM



Designation	Part No.	± .012 (0.30)	± .012 (0.30)	± .012 (0.30)
Locking spring	259-8760-000	.465(11.80)	.673(17.10)	.260(6.60)



Materials: Thermoplastic black 94-V-0; Cadmium plated steel and/or corrosion resistant steel.

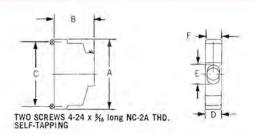
An optional locking mechanism is available. To order use following part numbers.

015-8755-000 Locking hook (2 required per connector) 259-8760-000 Locking spring (2 per connector)

Part Number by Shell Size	± .012 (0.30)	B ±.012 (0.30)	C ±.005 (0.13)	D ±.012 (0.30)	± .012 (0.30)	F ± .012 (0.30)
DA 115339-1	1.929(49.00)	1.260(32.00)	1.311(33.30)	.630(16.00)	.315(8,00)	.275(7.00)
DB 115339-2	2.480(63.00)	1.653(42.00)	1.852(47.04)	.630(16,00)	.315(8.00)	.708(18.00)
DC 115339-3	3.118(79.20)	1.653(42.00)	2.500(63.50)	.630(16.00)	.315(8.00)	.708(18.00)
DD 115339-4	3.023(76.80)	1.653(42,00)	2.405(61,10)	.748(19.00)	.433(11.00)	.708(18.00)
DE 115339	1.614(41.0)	1.260(32.0)	0.984(25.0)	.630(16.0)	.315(8.0)	,275(7,0)

STRAIGHT





Part Number by Shell Size

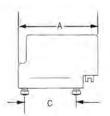
Grey	A ± .015 (0.38)	B ±.015 (0.38)	C ± .005 (0.13)	0 ±.015 (0.38)	£ .010 (0.25)	± .010 (0.25)
DE 51218-9	1.218(30.9)	1.000(25,4)	.984(25.0)	.500(12.7)	.281(7,1)	.281(7.1)
DA 51210-9	1.546(39,3)	1.000(25,4)	1.312(33.3)	.500(12,7)	.360(9,1)	.360(9.1)
DB 51212-9	2.093(53.2)	1.250(31,7)	1.852(47.0)	.500(12,1)	.493(12,5)	.360(9.1)
DC 51214-9	2.734(69.4)	1.500(38.1)	2.500(63,5)	.500(12,7)	.694(17,6)	.360(9,1)
DD 51216-9	2.640(67.1)	1.500(38.1)	2.406(61,1)	.609(15,5)	.734(18.6)	.468(11,9)
	DE 51218-9 DA 51210-9 DB 51212-9 DC 51214-9	DE 51218-9 1.218(30.9) DA 51210-9 1.546(39.3) DB 51212-9 2.093(53.2) DC 51214-9 2.734(69.4)	DE 51218-9 1.218(30.9) 1.000(25.4) DA 51210-9 1.546(39.3) 1.000(25.4) DB 51212-9 2.093(53.2) 1.250(31.7) DC 51214-9 2.734(69.4) 1.500(38.1)	DE 51218-9 1.218(30.9) 1.000(25.4) .984(25.0) DA 51210-9 1.546(39.3) 1.000(25.4) 1.312(33.3) DB 51212-9 2.093(53.2) 1.250(31.7) 1.852(47.0) DC 51214-9 2.734(69.4) 1.500(38.1) 2.500(63.5)	DE 51218-9 1.218(30.9) 1.000(25.4) .984(25.0) .500(12.7) DA 51210-9 1.546(39.3) 1.000(25.4) 1.312(33.3) .500(12.7) DB 51212-9 2.093(53.2) 1.250(31.7) 1.852(47.0) .500(12.1) DC 51214-9 2.734(69.4) 1.500(38.1) 2.500(63.5) .500(12.7)	DE 51218-9 1.218(30.9) 1.000(25.4) .984(25.0) .500(12.7) .281(7.1) DA 51210-9 1.546(39.3) 1.000(25.4) 1.312(33.3) .500(12.7) .360(9.1) DB 51212-9 2.093(53.2) 1.250(31.7) 1.852(47.0) .500(12.1) .493(12.5) DC 51214-9 2.734(69.4) 1.500(38.1) 2.500(63.5) .500(12.7) .694(17.6)

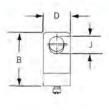
Material: Thermoplastic — Flame retardant 94-V-2 Color: Black or Grey

Corrosion Resistance: Hardware passes 50-hour exposure to salt spray in accordance with MII-STD-202A, Method 101A, Condition B.

RIGHT ANGLE







Part Number by Shell Size

Black	Grey	A ± 0.15 (0.38)	± .015 (0.38)	£ .005 (0.13)	D ±.015 (0.38)	± .010 (0.25
DA 51211	DA 51211-9	1.822(46,3)	1.000(25.4)	1.312(33.3)	.500(12.7)	.360(9.1)
DB 51213	DA 51213-9	2.368(60.1)	1.250(31.7)	1.852(47,0)	.500(12.7)	.493(12.5)
DC 51215	DC 51215-9	3.009(76,4)	1.500(38,1)	2,500(63.5)	.500(12.7)	.694(17.6)
DD 51217	DD 51217-9	2.915(74.0)	1.500(38.1)	2.406(61.1)	.609(15.5)	.734(18.6)

Material: Thermoplastic—Flame retardant 94-V-2 Color: Black or Grey

Corrosion Resistance: Hardware passes 50-hour exposure to salt spray in accordance with MIL-STD-202A, Method 101A, Condition B.



JUNCTION SHELLS—SHIELDED RFI

(Refer to "Shielded-D" ordering info, page 31)

DIECAST STRAIGHT/90°



Ordering info see page 28.

SHIELDED/SHROUDED



Ordering info see page 25.

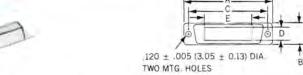
PLATED PLASTIC

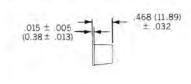


Ordering info see page 28.

POTTING SHELLS—METAL







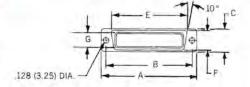
Part Number by Shell Size

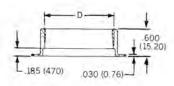
Cannon	± .015 (0.38)	± .015 (0.38)	± .010 (0.25)	D	± .020 (0.51)
DA 19678-10	1.531(38,887)	.500(12,700)	1,312(33.324)	.300(7,620)	.588(14,935)
DB 19678-11	2.078(52.781)	.500(12.700)	1.852(47.040)	.300(7.620)	1.125(28,575)
DC 19678-12	2.718(69,037)	,500(12,700)	2.500(63.500)	.300(7,620)	1.750(44,450)
DD 19678-13	2.625(66.675)	.609(15.468)	2.406(61.112)	.390(9.906)	1.750(44.450)

Material: Low carbon steel
Finish: Cadmium plate, yellow chromate.
Corrosion Resistance: Passes 50-hour exposure to salt
spray in accordance with MIL-STD-202A, Method 101A,
Condition B.

POTTING SHELLS—PLASTIC







Part Number by Shell Size

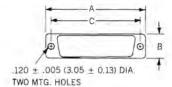
Cannon	A ± .015 (0.38)	В	C ±.010 (0.25)	± .015 (0.38)	£ .020 (0.51)	£ .010 (0.25)	£ .020 (0.51)
DE 50904-1	1.208(30,683)	.984(24,993)	.495(12.573)	.641(16.281)	.769(19.532)	.430(10.992)	.345(8.763)
DA 50905-1	1,536(39,014)	1.312(33.324)	.495(12,573)	.973(24,714)	1.104(28.041)	.430(10.992)	.345(8.763)
DB 50906-1	2.083(52.908)	1.852(47.040)	.495(12.573)	1.516(38.506)	1.639(41.630)	.430(10.992)	.345(8.763)
DC 50907-1	2.723(69,164)	2.500(63.500)	.495(12,573)	2.154(54,711)	2.289(58.140)	.430(10,992)	.345(8.763)
DD 50908-1	2.630(66.802)	2.406(61,112)	.606(15.392)	1.938(49.225)	2.189(55.600)	.545(13.843)	.445(11,303

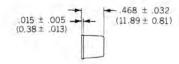
Material: Nylon Color: Natural (white)

Note: Nylon potting shells are molded with a thin flange .030(0.76) to permit the use of D Subminiature locking devices.

SWITCHING SHELLS







Part Number by Shell Size

Cannon	± .015 (0.38)	B ±.015 (0.38)	C ±.005 (0.13)	
DA 19678-6	1.531(38.887)	.500(12.700)	1.312(33.324)	
DB 19678-7	2.078(52,781)	.500(12.700)	1.852(47.040)	
DC 19678-8	2,718(69,037)	.500(12.700)	2.500(63,500)	
DD 19678-9	2.625(66.675)	.609(15.468)	2.406(61.112)	

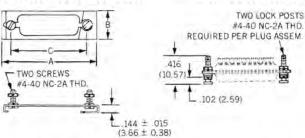
Material: Low carbon steel.
Finish: Cadmium plate, yellow chromate.
Corrosion Resistance: Passes 48-hour exposure to salt spray in accordance with MIL-STD-202A, Method 101A, Condition B.

SLIDE LOCKS

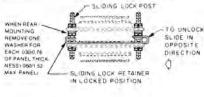
SLIDING LOCK RETAINER

SLIDING LOCK POST-ORDER TWO PER CONNECTOR

LOCKED POSITION







Material: Retainer plate — stainless steel; hardware — cold rolled steel.

Finish: Retainer plate — passivated; hardware — Cadmium plate, yellow chromate.

Corrosion Resistance: Passes 48-hour exposure to salt spray in accordance with MIL-STD-202A. Method 101A, Condition B.

SLIDING LO	CK POST
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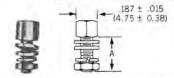
	Part Number
Steel	D53018
Non-Magnetic	D53018-5

SLIDING LOCK RETAINER Part Number by Shell Size

Cannon	± .015 (0.38)	± .015 (0.38)	±.005 (0.13)
DE 51224-1	1.392(35.36)	.500(12.70)	.984(25.00)
DA 51220-1	1.720(43.70)	.500(12.70)	1.312(33.32)
DB 51221-1	2.260(57.40)	.500(12.70)	1.852(47.07)
DC 51222-1	2.908(73.86)	.500(12.70)	2.500(63.50)
DD 51223-1	2.814(71.47)	.609(15.47)	2.406(61.10)

SCREW LOCKS FEMALE

NOTE: Order two per connector



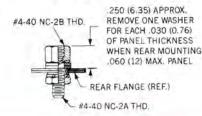
Material: Cold rolled steel

Finish: Cadmium plate, yellow chromate.

Corrosion Resistance: Passes 48-hour exposure to salt spray in accordance with MIL-STD-202A, Method 101A, Condition B.

NOTE: A 6 inch/pound (female) and 4 inch/pound (male) maximum torque during assembly is recommended on steel screw lock assemblies.

MOUNTED POSITION

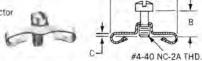


Part Number

Cannon	Mil. Spec.	± .015 (0.38)
D20418-2	M24308/26-1	.312(7.92)
D20418-50		.500(12.70)
D20418-39	M24308/26-2	.625(15.88)
D20418-74	_	.750(19.05)

MALE

NOTE: Order two per connector



Material: Clip-sheet steel; hardware-cold rolled steel.

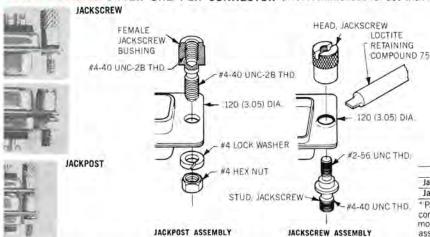
Finish: Cadmium plate, yellow chromate.

Corrosion Resistance: Passes 48-hour exposure to salt spray in accordance with MIL-STD-202A, Method 101A, Condition B.

Part Number

Cannon	Mil. Spec	± .015 (± 0.38)	±.015 (±.038)	±.005 (±0.13)	Connector Size
D20419		.555(14.10)	.250(6.35)	.048(1.22)	DE, DA, DB, DC
D20419-18	M24308/25-9	.555(14.10)	.281(7.14)	-067(1.70)	DE, DA, DB, DC
D20419-21	-	.555(14.10)	.281(7.14)	-092(2.34)	DE, DA, DB, DC
D20419-104	-	.555(14.10)	.312(7.92)	.092(2.34)	DE, DA, DB, DC
D20420		.656(16.66)	.250(6.35)	048(1.22)	DD only
D20420-13	M24308/25-10	.656(16.66)	281(7.14)	.067(1.70)	DD only
D20420-15		656(16.66)	.281(7.14)	.092(2.34)	DD only
D20420-86	-	.656(16.66)	.312(7.92)	092(2.34)	DD only

JACKSCREW ORDER ONE PER CONNECTOR (not recommended for use with metal junction shells or for rear panel mounting)



7	Part Number	Material	Finish
Jackscrew	D110550*	Stainless steel	None
Jackpost	D110551*	Stainless steel	Passivate

* Part number consists of two assemblies each as required per connector. Fits all standard D Series with .120 (3.05) diameter mounting holes. 51/2 inch/pounds maximum torque during assembly is recommended

-.062 (1.57) MAX.

.062 ± .005 (1.57 ± 0.13)

.875 ± .030 (22,22 ± .076)

.155 (3.93) DIA

(APPROX. TYP.)



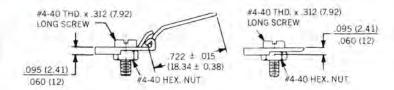
D SUBMINIATURE RECTANGULAR CONNECTORS

SPRING LATCHES

ORDER TWO PER CONNECTOR

Material: Stainless steel. Finish: Passivated.

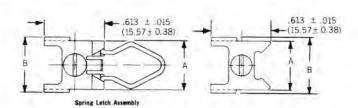




END DISC LATCH ASSEMBLY

± .015 (0.38)	±.015 (0.38)
.484(12.3)	.556(14.1)
.609(15.5)	.673(17.1)
A ± .015 (0.38)	± .015 (0.38)
.484(12.3)	.556(14.1)
.609(15.5)	.673(17.1)
	.484(12.3) .609(15.5) A ± .015 (0.38) .484(12.3)

NOTE: Two end disk latch assemblies and two spring latch assemblies are required per mated connector.

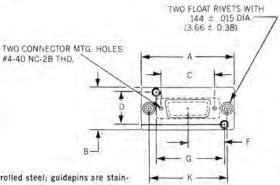


156 ± .002

GUIDE PIN PLATES

MALE





 (3.96 ± 0.05) DIA. (TYP.) .343 ± .015 -(8.71 ± 0.38)

.032 (0.81) TOTAL DIAMETRICAL FLOAT

Material: Plates and float hardware are cold rolled steel; guidepins are stainless steel.

Plate Finish: Cadmium plate, yellow chromate.

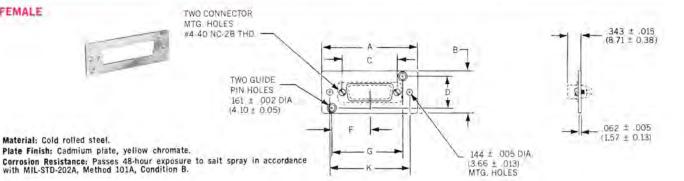
Corrosion Resistance: Passes 48-hour exposure to salt spray in accordance with MIL-STD-202A, Method 101A, Condition B.

Part Number by Shell Size

Cannon	A ±.015 (0.38)	± .015 (0.38)	C ± .005 (0.13)	0	± .005 (0.13)	G	± .005 (0.13)
DA 22213	2.281(57.937)	1.000(25.400)	1.312(33.324)	.750(19.050)	.898(22,809)	1.663(47.240)	1.906(48.412)
DB 22255	2.820(71.628)	1.000(25.400)	1.852(47.040)	.750(19,050)	1.168(29,667)	2.203(55,956)	2.446(62,128)
DC 22070	3.468(88.087)	1.000(25,400)	2.500(63,500)	.750(19.050)	1.492(37.896)	2.851(72,415)	3.094(78.587)
DD 21962	3.375(85.725)	1.125(28.575)	2.406(61,112)	.874(22,1996)	1.437(36.499)	2.749(69,824)	3.000(76,200)

FEMALE





Part Number by Shell Size

Material: Cold rolled steel.

Cannon	+ .015 (0.38)	B ±.015 (0.38)	C ± .005 (0.13)	D	£ .005 (0.13)	G	±.005 (0.13)
DA 22214	2.281(57,937)	1.000(25,400)	1.312(33,324)	,750(19,050)	.898(22.809)	1.663(47,240)	1.906(48,412)
DB 22254	2.820(71.628)	1.000(25,400)	1.852(47.040)	.750(19,050)	1.168(29,667)	2.203(55.956)	2.446(62.128)
DC 22071	3.468(88.087)	1.000(25.400)	2.500(63,500)	.750(19.050)	1.492(37,896)	2.851(72,415)	3.094(78.587)
DD 21961	3.375(85,725)	1.125(28.575)	2,406(61,112)	.874(22.1996)	1.437(36,499)	2.749(69,824)	3.000(76,200)

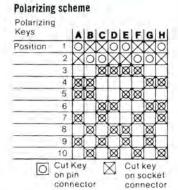
ACCESSORIES

POLARIZING PLATES



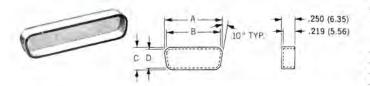
Part Number by Shell Size	A	В
DE 115398	1.208(30.7)	0.629(16)
DA 115398-1	1.535(39.0)	0.629(16)
DB 115398-2	2.082(52,9)	0.629(16)
DC 115398-3	2.726(69.2)	0.629(16)
DD 115398-4	2.630(66,8)	0.749(19)

Material: Black plastic, 94-V-O rated A B C D E F G H A B C D (2.00) (2.00)



DUST CAPS

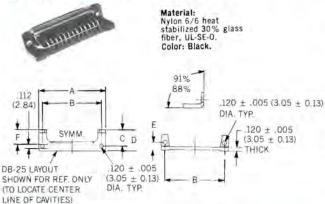
Material: Polyethylene (red).



Part Number by Shell Size	Use with	A	В	C	D
DE 59-20	DE 9S	.694(17,6)	.627(15.9)	.362(9.2)	.295(7.5)
DE 60-20	DE 9P	.749(19.0)	.682(17.3)	.412(10.5)	.345(8.8)
DA 59-20	DA 15S	1.022(26,0)	.955(24.3)	,362(9.2)	,295(7.5)
DA 60-20	DA 15P	1.077(27.4)	1.010(25.7)	.412(10.5)	.345(8.8)
DB 59-20	DB 25S	1,562(39,7)	1.495(38.0)	.362(9.2)	.295(7.5)
DB 60-20	DB 25P	1.635(41.5)	1.568(39.8)	.430(10.9)	.363(9.2)
DC 59-20	DC 37S	2.210(56.1)	2.143(54,4)	.362(9.2)	.295(7.5)
DC 60-20	DC 37P	2.283(57.9)	2.216(56,3)	.430(10.9)	.363(9.2)
DD 59-20	DD 50S	2.116(53,7)	2.049(52,0)	.474(12.0)	.407(10.3)
DD 60-20	DD 50P	2.179(55.3)	2.112(53.6)	.536(13.6)	.469(11.9)

RIGHT ANGLE BRACKETS (Used with 90° Printed Circuit Connector D*M, D*, D*C/D*U)

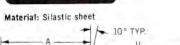
NOTE: For applicable contact extension see pages 5 and 13.

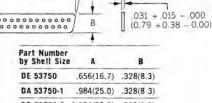


Shell Size	Part Number	±.015	±.005	±.005	±.010	±.010	±.010
DE	015-0338-000	1.224(31,1)	.984(24.0)	.340(8.63)	,484(12.3)	.247(6,27)	.283(7.2
DA	015-0339-000	1.552(39.4)	1.312(33.3)	.340(8,63)	.484(12,3)	.247(5.27)	.283(7.2)
DB	015-0340-000	2.092(53.1)	1.852(47.0)	.340(8.63)	.484(12.3)	.247(6.27)	.283(7.2)
DC	015-0341-000	2.740(69.0)	2.500(63.5)	.340(8,63)	,484(12,3)	-247(6,27)	.283(7.2)
DD	015-0342-000	2.646(67.2)	2.406(61.1)	.395(10.0)	.594(15.1)	.302(7.67)	.283(7.2)

D*C/	D*U						
Shell Size		±.015	B ±.005	±.005	D ±.010	±.010	±.010
DE	015-0348-000	1.224(31.1)	.984(24.0)	.502(12.8)	.647(16.4)	.247(6.27)	.445(11.3)
DA	015-0349-000	1.552(39.4)	1.312(33.3)	.502(12.8)	.647(16.4)	.247(6.27)	.445(11.3)
DB	015-0350-000	2.092(53.1)	1.852(47.0)	.502(12.8)	.647(16.4)	.247(6.27)	.445(11.3)
DC	015-0351-000	2.740(69.0)	2.500(63.5)	.502(12.8)	.647(16.4)	.247(6,27)	.445(11.3)
DD	015-0352-000	2.646(67.2)	2.406(61.1)	.558(14.2)	.756(19.2)	.302(7.67)	.445(11,3)



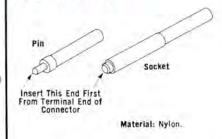




DE 53750	.656(16.7)	.328(8.3)
DA 53750-1	.984(25.0)	.328(8.3)
DB 53750-2	1.531(38.9)	.328(8.3)
DC 53750-3	2.171(55,1)	.328(8,3)
DD 53750-4	2.078(52.8)	437(11.1)

WIRE HOLE FILLERS

(D*MA Series Only)



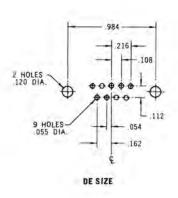
Part Number	Insert Type
DMA 51236-1	Socket
DMA 51235-1	Pin

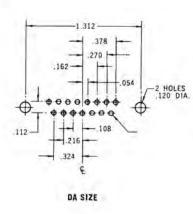
ALIGNMENT TOOL

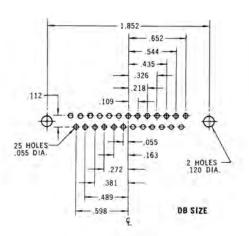
(For D*C/D*U BURGUN-D 90 ° Connectors with Machined Contacts Only)

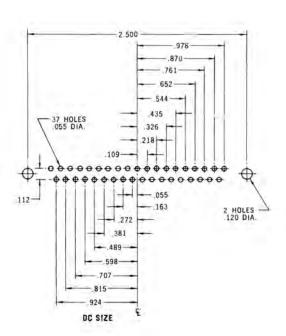


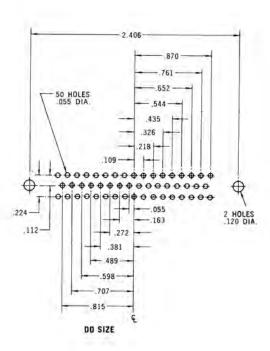
PC BOARD HOLE PATTERNS











Conversion Chart—Inches to Millimeters

Inches	mm
.054	1.37
.055	1.40
.108	2.74
.109	2.77
.112	2.84
.120	3.05
.162	4.11
.163	4.14

Inches	mm
.216	5.49
.218	5.54
.224	5.69
.270	6.86
.272	6.91
.324	8,23
.326	8.28
.378	9.60

Inches	mm
.381	9.68
.435	11.05
.489	12.42
.544	13.82
.598	15.19
.652	16.56
.707	17.96
.761	19.33

Inches	mm
.816	20.73
.870	22,10
.924	23.47
.978	24.84
.984	24.99
1.312	33.32
1.852	47.04
2.406	61.11
2.500	63.50

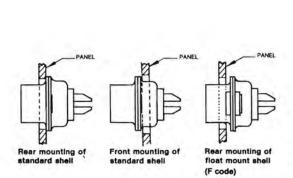
Dia, P/C Tail	Recommended P/C Board Hole Dia.
.028(0,71)	.045(1.14)
.030(0.76)	.045(1.14)
.040(1,02)	.055(1.40)

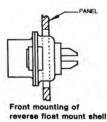




PANEL CUTOUTS

D*, D*C, D*U, D*M, D*MA, D*SP





(R code)

STANDARD CUTOUT

O32 (0.81) R MAX. TYP.

B

FULL R

J TYP. R

O9710NAL CUTOUT

(For Rear Mounting)

Connector Size	Mounting Method	±.005(0,13)	B ±.005(0.13)	±.005(0,13)	±.005(0.13)	±.005(0.13)	F ±.005(0,13)	生.002(0.05)	H ±.002(0.05)	±.002(0.05)
A Standard	Front Mounting	1.202(30.53)	.601(15.26)	1.312(33.32)	.656(16.66)	.513(13.03)	.257(6.52)	.120(3.04)	.060(1.52)	.083(2.10)
200	Rear Mounting	1.134(28,80)	.567(14.40)	1.312(33.32)	.656(16.66)	.449(11.40)	-225(5.71)	:120(3.04)	.060(1.52)	.132(3.35)
A Float	Front Mounting	1.234(31.34)	.617(15.67)	1.312(33.32)	.656(16.66)	.545(13.84)	.273(6.93)	.088(2.23)	.044(1.11)	.083(2.10)
	Rear Mounting	1.166(29.61)	.583(14.80)	1.312(33.32)	.656(16,66)	.481(12.21)	.241(6.12)	.088(2.23)	.044(1.11)	.132(3.35)
B Standard	Front Mounting	1.743(44,27)	.872(22.14)	1.852(47.04)	.926(23,52)	.513(13.03)	.257(6.52)	.120(3.04)	.060(1,52)	.083(2,10)
	Rear Mounting	1.674(42.51)	.837(21.25)	1.852(47.04)	.926(23.52)	.449(11.40)	.225(5.71)	.120(3,04)	.060(1.52)	.132(3.35)
B Float	Front Mounting	1.775(45,08)	.888(22,55)	1.852(47.04)	.926(23.52)	.545(13,84)	.273(6.93)	.088(2.23)	.044(1.11)	.083(2.10)
	Rear Mounting	1.706(43.33)	.853(21.66)	1.852(47.04)	.926(23.52)	.481(12,21)	.241(6.12)	.088(2,23)	.044(1.11)	.132(3.35)
C Standard	Front Mounting	2.391(60.73)	1.196(30.37)	2.500(63,50)	1.250(31.75)	.513(13.03)	.257(6.52)	.120(3.04)	.060(1.52)	.083(2.10)
	Rear Mounting	2.326(59.08)	1.163(29.54)	2.500(63.50)	1.250(31,75)	.449(11.40)	.225(5.71)	.120(3,04)	.060(1.52)	.132(3,35)
C Float	Front Mounting	2.423(61.54)	1.212(30.78)	2.500(63.50)	1.250(31.75)	.545(13.84)	.273(6.93)	.088(2.23)	.044(1.11)	.083(2.10)
	Rear Mounting	2.354(59,79)	1.177(29.89)	2.500(63.50)	1,250(31,75)	.481(12.21)	.241(6.12)	.088(2.23)	.044(1.11)	.132(3.35)
D Standard	Front Mounting	2.297(58.34)	1.149(29.18)	2.406(61.11)	1.203(30.55)	.623(15.82)	.312(7.92)	.120(3.04)	.060(1.52)	.083(2.10)
	Rear Mounting	2.218(56.33)	1.109(28.16)	2.406(61.11)	1.203(30,55)	.555(14.09)	.278(7.06)	.120(3.04)	.060(1.52)	.132(3.35)
D Float	Front Mounting	2.329(59,15)	1.165(29.59)	2.406(61.11)	1.203(30.55)	.655(16.63)	.328(8.33)	.088(2,23)	.044(1.11)	.083(2.10)
	Rear Mounting	2.250(57.15)	1.125(28.57)	2.406(61,11)	1.203(30.55)	.587(14.90)	.294(7.46)	.088(2.23)	.044(1,11)	.132(3.35)
E Standard	Front Mounting	.874(22.19)	.437(11.09)	.984(24.99)	.492(12,49)	.513(13.03)	.257(6.52)	.120(3.04)	.060(1.52)	.083(2,10)
	Rear Mounting	.806(20.47)	.403(10.23)	.984(24,99)	.492(12.49)	.449(11.40)	.225(5.71)	.120(3.04)	.060(1.52)	.132(3.35)
E Float	Front Mounting	.906(23.01)	.453(11.50)	.984(24.99)	.492(12,49)	.545(13.84)	.273(6.93)	.088(2.23)	.044(1.11)	.083(2.10)
	Rear Mounting	.838(21.28)	.419(10.64)	.984(24.99)	.492(12.49)	.481(12.21)	.241(6.12)	.088(2.23)	.044(1,11)	.132(3.35)



PANEL MOUNTING

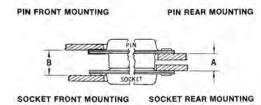


FIGURE 1A

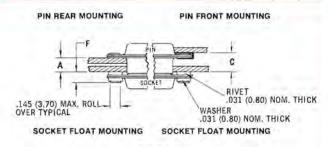


FIGURE 2

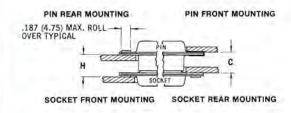


FIGURE 1B

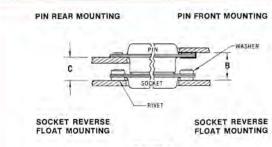


FIGURE 3

	Cor	mbination of Mated Connect	Connectors	+.030(+0.76)	+.030(+0.76)	+.030(+0.76)	F	H +.030(+0.76)
Fig. No.	Size	Pin (See Note below)	Socket	000(-0)	000(-0)	000(-0)	±.010(±0.25)	000(-0)
1	A, E	Standard	Standard	.250(6,35)	.340(8.63)	.295(7,49)		.295(7.49)
1	B, C, D	Standard	Standard	.238(6,04)	.343(8.71)	,298(7,56)	_	.283(7,18)
2	A, E	Standard	Float Mount	.218(5.53)		.263(6.68)	.120(3.04)	· ·
2	B, C, D	Standard	Float Mount	.206(5.23)	_	.266(6.75)	.120(3.04)	-
2	A, E	Float Mount	Standard	.218(5.53)	-	.263(6.68)	.120(3.04)	-
2	B, C, D	Float Mount	Standard	.206(5.23)		.251(6.37)	.130(3.30)	-
3	A, E	Standard	Rev. Float Mount	-	.358(9.09)	.313(7.95)	.120(3.04)	-
3	B, C, D	Standard	Rev. Float Mount	-	.361(9.16)	,301(7.64)	.120(3.04)	_
3	A, E	Rev. Float Mount	Standard	-	.358(9.09)	.313(7.95)	.120(3.04)	-
3	B, C, D	Rev. Float Mount	Standard		.355(9.01)	.310(7.87)	.130(3,30)	

NOTE

- A, B, C, and H are dimensions between panels and represent the recommended limit to be used in the design of the connector mounting method.
- 2. It is recommended that only one assembly, either pin or socket, be float mounted.
- Standard pin assemblies contained .015 (0.38) thick front shells on E and A sizes; .024 (0.61) thick front shells on B, C, and D sizes.
- Standard connectors accommodate a #4 screw. Float mount connectors accommodate a #2 screw.





MODIFICATION CODES

CODE	DESCRIPTION	APPLICATION		
A101	Cadmium Plate, Yellow Chromate per QQ-P-416	Standard on most connector shells and accessories		
A106	Gold over Copper Plating per MIL-G-45204 Type II Class 2 (100 Microinches)	D*M, D*MA, GD*, D*D		
A156 Gold over Copper Plating per MIL-G-45204 Type II Class I (50 Microinches)		D*M, D*MA, GD*, D*D		
A159	Electroless Nickel per MIL-C-26074 B	D*M, D*MA, GD*		
A183 Zinc Plate, Yellow Chromate per ASTM-B-633		D*, D*C, D*U. Standard for D*SF		
A197	Tin/Lead Electroplated Shells	D*, D*M, D*MA, D*C, D*U		
A201	Gold over Nickel Plating	Standard contact finish All D Subminiature		
A203	Zinc Plate, Clear Chromate per ASTM-B-633	D*, D*C, D*U		
A208	Gold over Nickel (30 Microinches)	D*C, D*U, D*P		
C37	Diallyl Phthalate Insulators per MIL-M-14, Color Green	D*. Standard for D*M, D*MA		
C53	Black 94V-0 Insulators Polyamide	D*		
FO	Less Contacts	D*MA, D*C, D*U, GD*, D*D		
F179	Wrap Post Contacts, .375 (9.52)	D*, D*M		
F179A	Wrap Post Contacts, .500 (12.7) Extension	D*, D*M		
F197	Ground Spring Installed in Socket Connector	D*U		
F201	Pin Shell with Multiple Grounding Indentations	D*, D*M, D*MA, D*C, D*U, GD*		
F202	Metal Right Angle Bracket	D*U		

CODE	DESCRIPTION	APPLICATION
K47	Connector Shell Plated Gold Over Copper (A156)	D*MA, GD*, Applicable to Connectors Less Contacts (FO)
K52	Connector Shell and Contacts Plated Gold over Copper (A156)	D*M, D*MA, GD*
K56	Connector Shell Plated with (A156) Finish, Contacts Plated with (A106) Finish	D*M, D*MA, GD*
K87	Shell Plated A197, with F201 Grounding Indentations (Pin Connector)	D*, D*M, D*MA, D*C, D*U
K97	Shell Plated A197 with F202 Right Angle Metal Brackets	D*U
K98	Shell Plated A197 F201 Multiple Grounding Indentations F202 Right Angle Metal Brackets	D*U
K 101	A 197 Shells A208 Contacts	D*, D*U
K102	A208 Contacts K87 Shells	D*, D*U
NM	Connector Supplied with Brass Shells, Screened for 2000 Gamma Residual Magnetism	D*, D*M, D*MA
NMB	Connector Supplied with Brass Shells and Unpigmented Insulators, Screened for 200 Gamma Residual Magnetism	D*M, D*MA
NMC	Connectors Supplied with Brass Shells and Unpigmented Insulators. Screened for 20 Gamma Residual Magnetism	D*M, D*MA
WS	Neoprene Wire Separator Bonded to Rear of Insulator	D* MA



TEST DATA

MIL-C-24308 TEST EXTRACTS APPLICABLE TO CLASS & CONNECTORS

Test Description		Requirement		Method
Mating/Unmating Force	Shell Size	Max Unmating (LBS)	Max Mating (LBS)	MIL-STD-1344 Method 2013
	2 3 4 5	10 17 24 30	17 28 39 49	
Contact Retention		ed in their inserts by a 9 pound is shall not exceed .012 inch w		MIL-STD-1344 Method 2004
Insulation Resistance	After humidity 1 Megoh All other conditions 500			MIL-STD-1344 Method 3003
Contact Resistance	After salt spray not to ex	ceed 55 millivolts max.		#20 AWG; 7.5 Amp MIL-STD-1344 Method 3004
Vibration			MIL-STD-1344 Method 2005 Test Cond. 4	
Shock	No damage and no loosening of parts. No interruption of electrical continuity longer than 1 microsecond.		MIL-STD-1344 Method 2004 Test Cond. E	
Durability	No electrical or mechanical defects after 500 cycles of mating and unmating MIL-STD-1344 Method 2016 200 ± 100 cycles/			
Salt Spray (Corrosion)	No exposure of base me meet further tests as spe		affect performance. Product will	MIL-STD-1344 Method 1001 Cond. B
Fluid Immersion	20 hours immersion MII	L-H-5606 Hydraulic Fluid -L-23659 Lubricating Fluid nating/unmating force followin	g immersion.	MIL-STD-1344 Method 1016



MIL-C-24308 CROSS-REFERENCE

Military	Cannon
Part Number	Part Number
M24308/1-1	DEMM9S
M24308/1-2	DAMM15S
M24308/1-3	DBMM25S
M24308/1-4	DCMM37S
M24308/1-5	DDMM50S
M24308/1-12	DEMMF9S
M24308/1-13	DAMMF15S
M24308/1-14	DBMMF25S
M24308/1-15	DCMMF37S
M24308/1-16	DDMMF50S
M24308/1-23	DEMMY9S
M24308/1-24	DAMMY15S
M24308/1-25	DBMMY25D
M24308/1-26	DCMMY37S
M24308/1-27	DDMMY50S
M24308/2-1	DEMAM9S
M24308/2-2	DAMAM15S
M24308/2-3	DBMAM25S
M24308/2-4	DCMAM37S
M24308/2-5	DDMAM50S
M24308/2-6	DEMAMT9S
M24308/2-7	DAMAMT15S
M24308/2-8	DBMAMT25S
M24308/2-9	DCMAMT37S
M24308/2-10	DDMAMT50S
M24308/2-15	DDMAM78S
M24308/2-23	DEMAMF9S
M24308/2-24	DAMAMF15S
M24308/2-25	DBMAMF25S
M24308/2-26	DCMAMF37S
M24308/2-27	DDMAMF50S
M24308/2-32	DDMAMF78S
M24308/2-34	DEMAMFT9S
M24308/2-35	DAMAMFT15S
M24308/2-36	DBMAMFT25S
M24308/2-37	DCMAMFT37S
M24308/2-38	DDMAMFT50S
M24308/2-281	DEMAM9S-FO
M24308/2-282	DAMAM15S-FO
M24308/2-283	DBMAM25S-FO
M24308/2-284	DCMAM37S-FO
M24308/2-285	DDMAM50S-FO
M24308/2-290	DDMAM78S-FO
M24308/2-292	DEMAMF9S-FO
M24308/2-293	DAMAMF15S-FO
M24308/2-294	DBMAMF25S-FO
M24308/2-295	DCMAMF37S-FO
M24308/2-296	DDMAMF50S-FO
M24308/2-301	DDMAMF78S-FO
M24308/2-335	DBMAMR25S
M24308/2-336	DCMAMR37S
M24308/2-341	DAMAMR15S
M24308/2-342	DEMAMY9S
M24308/2-343	DAMAMY15S
M24308/2-344	DBMAMY25S
M24308/2-345	DCMAMY37S
M24308/2-346	DDMAMY50S
M24308/2-353	DEMAMYT9S
M24308/2-354	DAMAMYT15S
M24308/2-355	DBMAMYT25S
M24308/2-356	DCMAMYT37S
M24308/2-357	DDMAMYT50S
M24308/2-482	DEMAMY9S-FO
M24308/2-483	DAMAMY15S-FO
M24308/2-484	DBMAMY25S-FO

Military	Cannon
Part Number	Part Number
M24308/2-485	DCMAMY37S-FO
M24308/2-486	DDMAMY50S-FO
M24308/3-1	DEMM9P
M24308/3-2	DAMM15P
M24308/3-3	DBMM25P
M24308/3-4	DCMM37P
M24308/3-5	DDMM50P
M24308/3-12	DEMMF9P
M24308/3-13	DAMMF15P
M24308/3-14	DBMMF25P
M24308/3-15	DCMMF37P
M24308/3-16	DDMMF50P
M24308/4-1	DEMAM9P
M24308/4-2	DAMAM15P
M24308/4-3	DBMAM25P
M24308/4-4	DCMAM37P
M24308/4-5	DDMAM50P
M24308/4-6	DEMAMT9P
M24308/4-7	DAMAMT15P
M24308/4-8	DBMAMT25P
M24308/4-9	DCMAMT37P
M24308/4-10	DDMAMT50P
M24308/4-15	DDMAM78P
M24308/4-259	DEMAM9P-FO
M24308/4-260	DAMAM15P-FO
M24308/4-261	DBMAM25P-FO
M24308/4-262	DCMAM37P-FO
M24308/4-263	DDMAM50P-FO
M24308/4-268	DDMAM78P-FO
M24308/4-302	DEMAMF9P
M24308/4-303	DAMAMF15P
M24308/4-304	DBMAMF25P
M24308/4-305	DCMAMF37P
M24308/4-306	DDMAMF50P
M24308/4-311	DCMAMF78P
M24308/4-313	DEMAMFT9P
M24308/4-314	DAMAMFT15P
M24308/4-315	DBMAMFT25P
M24308/4-316	DCMAMFT37P
M24308/4-317	DDMAMFT50P
M24308/4-324	DEMAMF9P-FO
M24308/4-325	DAMAMF15P-FO
M24308/4-326	DBMAMF25P-FO
M24308/4-327	DCMAMF37P-FO
M24308/4-328	DDMAMF50P-FO
M24308/4-333	DDMAMF78P-FO
M24308/5-1	DEMM9SNM
M24308/5-2	DAMM15SNM
M24308/5-3	DBMM25SNM
M24308/5-4	DCMM37SNM
M24308/5-5	DDMM50SNM
M24308/5-12	DEMMF9SNM
M24308/5-13	DAMMF15SNM
M24308/5-14	DBMMF25SNM
M24308/5-15	DCMMF37SNM
M24308/5-16	DDMMF50SNM
M24308/5-23	DEMMY9SNM
M24308/5-24	DAMMY15SNM
M24308/5-25	DBMMY25SNM
M24308/5-26	DCMMY37SNM
M24308/5-27	DDMMY50SNM
M24308/6-1	DEMAM9SNM
M24308/6-2	DAMAM15SNM
M24308/6-3	DBMAM25SNM
M24308/6-4	DCMAM37SNM

Military	Cannon
Part Number	Part Number
M24308/6-5	DDMAM50SNM
M24308/6-6	DEMAMT9SNM
M24308/6-7	DAMAMT15SNM
M24308/6-8	DBMAMT25SNM
M24308/6-9	DCMAMT37SNM
M24308/6-10	DDMAMT50SNM
M24308/6-15	DDMAM78SNM
M24308/6-259	DEMAMF9SNM
M24308/6-260	DAMAMF15SNM
M24308/6-261	DBMAMF25SNM
M24308/6-262	DCMAMF37SNM
M24308/6-263	DDMAMF50SNM
M24308/6-268	DDMAMF78SNM
M24308/6-270	DEMAMFT9SNM
M24308/6-271	DAMAMFT15SNM
M24308/6-272	DBMAMFT25SNM
M24308/6-273	DCMAMFT37SNM
M24308/6-274	DDMAMFT50SNM
M24308/6-281	DEMAM9SNM-F0
M24308/6-282	DAMAM15SNM-F0
M24308/6-283	DBMAM25SNM-FO
M24308/6-284	DCMAM37SNM-FO
M24308/6-285	DDMAM50SNM-FO
M24308/6-290	DDMAM78SNM-FO
M24308/6-324	DEMAMF9SNM-FO
M24308/6-325	DAMAMF15SNM-FO
M24308/6-326	DBMAMF25SNM-FO
M24308/6-327	DCMAMF37SNM-FO
M24308/6-328	DDMAMF50SNM-FO
M24308/6-333	DDMAMF78SNM-FO
M24308/6-453	DEMAMY9SNM
M24308/6-454	DAMAMY15SNM
M24308/6-455	DBMAMY25SNM
M24308/6-456	DCMAMY37SNM
M24308/6-457	DDMAMY5OSNM
M24308/6-464	DEMAMYT9SNM
M24308/6-465	DAMAMYT15SNM
M24308/6-466	DBMAMYT25SNM
M24308/6-467	DCMAMYT37SNM
M24308/6-468	DDMAMYT50SNM
M24308/6-491	DEMAMY9SNM-FO
M24308/6-492	DAMAMY15SNM-FO
M24308/6-493	DBMAMY25SNM-FO
M24308/6-494	DCMAMY37SNM-FO
M24308/6-495	DDMAMY5OSNM-FO
M24308/7-1	DEMM9PNM
M24308/7-2	DAMM15PNM
M24308/7-3	DBMM25PNM
M24308/7-4	DCMM37PNM
M24308/7-5	DDMM50PNM
M24308/7-12	DEMMF9PNM
M24308/7-13	DAMMF15PNM
M24308/7-14	DBMMF25PNM
M24308/7-15	DCMMF37PNM
M24308/7-16	DDMMF50PNM
M24308/8-1	DEMAM9PNM
M24308/8-2	DAMAM15PNM
M24308/8-3	DBMAM25PNM
M24308/8-4	DCMAM37PNM
M24308/8-5	DDMAM50PNM
M24308/8-6	DEMAMT9PNM
M24308/8-7	DAMAMT15PNM
M24308/8-8	DBMAMT25PNM
M24308/8-9	DCMAMT37PNM
M24308/8-10	DDMAMT50PNM





MIL-C-24308 CROSS-REFERENCE (Continued)

Military Part Number	Cannon Part Number
M24308/8-15	DDMAM78PNM
M24308/8-259	DEMAM9PNM-FO
M24308/8-260	DAMAM15PNM-FO
M24308/8-261	DBMAM25PNM-FO
M24308/8-262	DCMAM37PNM-FO
M24308/8-263	DDMAM50PNM-FO
M24308/8-269	DDMAM78PNM-FO
M24308/8-302	DEMAMF9PNM
M24308/8-303	DAMAMF15PNM
M24308/8-304	DBMAMF25PNM
M24308/8-305	DCMAMF37PNM
M24308/8-306	DDMAMF50PNM
M24308/8-311	DDMAMF78PNM
M24308/8-313 M24308/8-314	DEMAMFT9PNM DAMAMFT15PNM
M24308/8-314	
M24308/8-316	DBMAMFT25PNM DCMAMFT37PNM
M24308/8-317	DDMAMFT50PNM
M24308/8-324	DEMAMF9PNM-FO
M24308/8-325	DAMAMF15PNM-FO
M24308/8-326	DBMAMF25PNM-FO
M24308/8-327	DCMAMF37PNM-FO
M24308/8-328	DDMAMF50PNM-FO
M24308/8-333	DDMAMF78PNM-FO
M24308/9-1	DEH9P002
M24308/9-2	DAH15P002
M24308/9-3	DBH25P002
M24308/9-4	DCH37P002
M24308/9-5	DDH50P002
M24308/9-6	DEH9P001
M24308/9-7	DAH15P001
M24308/9-8 M24308/9-9	DBH25P001 DCH37P001
M24308/9-10	DDH50P001
M24308/9-11	DEH9P202
M24308/9-12	DAH15P202
M24308/9-13	DBH25P202
M24308/9-14	DCH37P202
M24308/9-15	DDH50P202
M24308/9-16	DEH9P201
M24308/9-17	DAH15P201
M24308/9-18	DBH25P201
M24308/9-19	DCH37P201
M24308/9-20	DDH50P201
M24308/23-1	DEMM9SM
M24308/23-2	DAMM15SM
M24308/23-3	DBMM25SM
M24308/23-4	DCMM37SM
M24308/23-5 M24308/23-7	DDMM50SM DEMM9SZ
W1243U0/23-/	DEININAZ

Military Part Number Cannon Part Number M24308/23-8 M24308/23-9 M24308/23-10 DMM50SZ DCMM37SZ DEMM9SH DAMM15SZ DCMM37SZ DCMM37SZ DCMM37SZ DCMM37SZ DCMM37SZ DCMM37SZ DCMM37SZ DCMM37SZ DCMM37SZ DCMM37SL DCMM37SH DCMM37SH DCMM37SH DCMM37SH DCMM37SH DCMM37SH DCMM37SX DCMM37SD DCMM37SL DCMM37SL DCMM37SL DCMM37SL DCMM37SL DCMM37SA DCMM37SB DCM3222222222222222222222222222222222222	E (Continued)				
M24308/23-8 DAMM15SZ M24308/23-9 DAMM25SZ M24308/23-10 DDMM50SZ M24308/23-14 DMM50SZ M24308/23-15 DMM25SH M24308/23-16 DMM25SH M24308/23-17 DMM50SH M24308/23-19 DEMM9SX M24308/23-20 DAMM15SX M24308/23-21 DMM50SH M24308/23-22 DAMM15SX M24308/23-23 DBMM25SX M24308/23-24 DBMM25SX M24308/23-25 DEMM9SD M24308/23-26 DAMM15SD M24308/23-28 DCMM37SD M24308/23-29 DMM50SD M24308/23-31 DEMM9SD M24308/23-32 DEMM9SD M24308/23-33 DEMM9SL M24308/23-34 DEMM9SD M24308/23-35 DMM50SD M24308/23-34 DEMM9SL M24308/23-35 DMM50SL M24308/23-34 DEMM9SA M24308/23-40 DMM50SA M24308/23-41 DMM50SA M24308/23-45					
M24308/23-10 DCMM37SZ M24308/23-13 DDMM50SZ M24308/23-14 DMM9SH M24308/23-15 DEMM9SH M24308/23-16 DBMM25SH M24308/23-16 DCMM37SH M24308/23-17 DDMM50SH M24308/23-20 DAMM15SX M24308/23-21 DBMM25SX M24308/23-23 DBMM25SX M24308/23-23 DDMM50SX M24308/23-23 DDMM50SX M24308/23-23 DDMM50SX M24308/23-25 DDMM50SX M24308/23-27 DBMM25SD M24308/23-28 DCMM37SD M24308/23-29 DMM50SD M24308/23-31 DEMM9SL M24308/23-31 DBMM25SL M24308/23-33 DBMM25SL M24308/23-34 DBMM25SL M24308/23-37 DEMM9SA M24308/23-39 DAMM15SA M24308/23-34 DBMM25SA M24308/23-37 DBMM25SA M24308/23-39 DMM50SL M24308/23-40 DMM37SA M24308					
M24308/23-11 DDMM50SZ M24308/23-14 DDMM50SZ M24308/23-15 DBMM25SH M24308/23-16 DDMM50SH M24308/23-17 DDMM50SH M24308/23-19 DDMM50SH M24308/23-20 DMM50SH M24308/23-21 DDMM50SH M24308/23-22 DMM9SX M24308/23-23 DMM50SX M24308/23-23 DMM50SX M24308/23-25 DMM50SX M24308/23-27 DMM50SX M24308/23-29 DMM50SX M24308/23-29 DMM50SD M24308/23-30 DEMM9SD M24308/23-31 DEMM9SD M24308/23-31 DEMM9SD M24308/23-31 DEMM9SD M24308/23-33 DEMM9SL M24308/23-34 DMM50SL M24308/23-35 DEMM9SA M24308/23-34 DMM50SL M24308/23-34 DMM50SA M24308/23-34 DMM50SA M24308/23-35 DMM50SA M24308/23-45 DMM50SA M24308/23-35					
M24308/23-13 DEMM9SH M24308/23-14 DAMM15SH M24308/23-15 DBMM25SH M24308/23-17 DDMM50SH M24308/23-19 DEMM9SX M24308/23-20 DAMM15SX M24308/23-21 DEMM9SX M24308/23-22 DAMM15SX M24308/23-23 DBMM25SX M24308/23-23 DMM50SX M24308/23-25 DEMM9SD M24308/23-26 DAMM15SD M24308/23-27 DBMM25SD M24308/23-28 DCMM37SD M24308/23-29 DDMM50SD M24308/23-31 DEMM9SL M24308/23-31 DEMM9SL M24308/23-33 DAMM15SL M24308/23-34 DMM50SL M24308/23-35 DAMM15SA M24308/23-34 DMM50SL M24308/23-35 DMM50SA M24308/23-40 DMM50SA M24308/23-41 DMM50SA M24308/23-42 DMM50SA M24308/23-45 DMM50SA M24308/23-45 DMM50SA M24308/23-55<	M24308/23-10 M24308/23-11				
M24308/23-15 M24308/23-17 M24308/23-19 M24308/23-19 M24308/23-21 M24308/23-21 M24308/23-22 M24308/23-25 M24308/23-25 M24308/23-25 M24308/23-27 M24308/23-27 M24308/23-27 M24308/23-29 M24308/23-31 M24308/23-31 M24308/23-31 M24308/23-32 M24308/23-33 M24308/23-34 M24308/23-35 M24308/23-40 M24308/23-50 MMM15SW M24308/23-50 MMM15SP M24308/23-50 MM37SW M24308/23-50 MM37SW M24308/23-50 MM37SW M24308/24-1 M24308/24-1 M24308/24-1 M24308/24-5 M24308/24-5 M24308/24-5 M24308/24-5					
M24308/23-16 DCMM37SH M24308/23-17 DDMM50SH M24308/23-20 DEMM9SX M24308/23-21 DEMM9SX M24308/23-22 DAMM15SX M24308/23-23 DDMM50SX M24308/23-25 DEMM9SD M24308/23-26 DAMM15SD M24308/23-27 DBMM25SD M24308/23-28 DCMM37SD M24308/23-29 DDMM50SD M24308/23-31 DEMM9SL M24308/23-31 DEMM9SL M24308/23-31 DEMM9SL M24308/23-33 DEMM9SL M24308/23-34 DCMM37SL M24308/23-35 DMM50SL M24308/23-34 DEMM9SA M24308/23-40 DMM50SA M24308/23-41 DMM50SA M24308/23-42 DMM50SA M24308/23-43 DEMM9SG M24308/23-44 DMM50SA M24308/23-45 DMM50SA M24308/23-47 DMM50SA M24308/23-49 DEMM9SG M24308/23-50 DMM50SG M24308/23-51 <td></td> <td></td>					
M24308/23-17 DDMM50SH DEMM9SX M24308/23-20 DDMM50SH DEMM9SX M24308/23-21 DBMM25SX DEMM25SX DEMM24308/23-23 M24308/23-25 DDMM50SX DEMM9SD M24308/23-26 DMM50SX DEMM9SD M24308/23-27 M24308/23-28 DCMM37SD DEMM25SD DEMM9SD DMM50SD DEMM9SD M24308/23-29 DMM50SD DEMM9SL DMM50SD DEMM9SL M24308/23-31 DEMM9SL DEMM9SL M24308/23-31 DEMM9SL DEMM9SL M24308/23-31 DEMM9SL DMM50SL DEMM9SL M24308/23-34 DEMM50SL DEMM9SA DEMM25SA DEMM9SA DEMM25SA DEMM9SA DEMM9SG DMM50SL DEMM9SA DEMM25SA DEMM9SG M24308/23-40 DCMM37SA DEMM9SG DEMM9SS DEMM9SW DEMM9SS DEMM9SW DEMM9SD DEMM95DM DEMM37PM					
M24308/23-20 DAMM15SX M24308/23-21 DBMM25SX M24308/23-22 DCMM37SX M24308/23-25 DDMM50SX M24308/23-26 DAMM15SD M24308/23-27 DBMM25SD M24308/23-28 DCMM37SD M24308/23-29 DDMM50SD M24308/23-31 DEMM9SL M24308/23-31 DEMM9SL M24308/23-33 DAMM15SL M24308/23-34 DCMM37SL M24308/23-35 DAMM15SL M24308/23-37 DEMM9SA M24308/23-38 DAMM15SA M24308/23-39 DBMM25SA M24308/23-39 DBMM25SA M24308/23-40 DCMM37SA M24308/23-41 DDMM50SA M24308/23-43 DEMM9SG M24308/23-45 DEMM9SG M24308/23-47 DMM50SG M24308/23-50 DAMM15SS M24308/23-51 DMM50SS M24308/23-52 DCMM37SS M24308/23-53 DMM50SS M24308/23-54 DMM50SS M24308/					
M24308/23-21 DBMM25SX M24308/23-22 DDMM50SX M24308/23-25 DDMM50SX M24308/23-26 DMM50SD M24308/23-27 DBMM25SD M24308/23-28 DDMM50SD M24308/23-29 DDMM50SD M24308/23-31 DEMM9SL M24308/23-32 DAMM15SL M24308/23-34 DMM50SL M24308/23-37 DEMM9SA M24308/23-39 DBMM25SA M24308/23-30 DBMM25SA M24308/23-30 DBMM25SA M24308/23-40 DMM50SA M24308/23-41 DMM50SA M24308/23-43 DBMM25SA M24308/23-44 DMM50SA M24308/23-45 DMM50SA M24308/23-40 DMM50SA M24308/23-43 DMM50SA M24308/23-45 DMM50SA M24308/23-45 DMM50SA M24308/23-50 DMM50SG M24308/23-51 DMM50SS M24308/23-52 DMM50SS M24308/23-55 DMM15SS M24308/23-56 </td <td></td> <td></td>					
M24308/23-22 DCMM37SX M24308/23-25 DDMM50SX M24308/23-25 DEMM9SD M24308/23-26 DAMM15SD M24308/23-27 DBMM25SD M24308/23-28 DDMM50SD M24308/23-31 DEMM9SL M24308/23-32 DAMM15SL M24308/23-34 DCMM37SL M24308/23-34 DDMM50SL M24308/23-35 DMM50SL M24308/23-37 DEMM9SA M24308/23-39 DAMM15SA M24308/23-40 DDMM50SL M24308/23-40 DMM50SA M24308/23-40 DMM50SA M24308/23-43 DEMM9SA M24308/23-44 DMM50SA M24308/23-45 DEMM9SG M24308/23-46 DEMM9SG M24308/23-47 DMM50SG M24308/23-50 DAMM15SS M24308/23-51 DMM50SS M24308/23-52 DMM50SS M24308/23-53 DMM50SS M24308/23-55 DMM50SS M24308/23-56 DAMM15SW M24308/23-57<					
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M24308/23-26 DAMM15SD M24308/23-27 DBMM25SD M24308/23-29 DCMM37SD M24308/23-31 DDMM50SD M24308/23-32 DDMM50SD M24308/23-33 DBMM25SL M24308/23-34 DBMM25SL M24308/23-37 DBMM25SL M24308/23-37 DBMM25SL M24308/23-37 DBMM50SL M24308/23-37 DBMM50SL M24308/23-39 DAMM15SA M24308/23-40 DMM50SA M24308/23-41 DMM50SA M24308/23-43 DBMM25SG M24308/23-44 DMM50SG M24308/23-45 DBMM25SG M24308/23-46 DMM50SG M24308/23-47 DMM50SG M24308/23-50 DMM50SG M24308/23-51 DMM50SS M24308/23-52 DMM50SS M24308/23-53 DMM50SS M24308/23-54 DMM50SS M24308/23-55 DMM15SW M24308/23-57 DMM50SW M24308/23-58 DMM15SW M24308/24-1	M24308/23-23				
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