

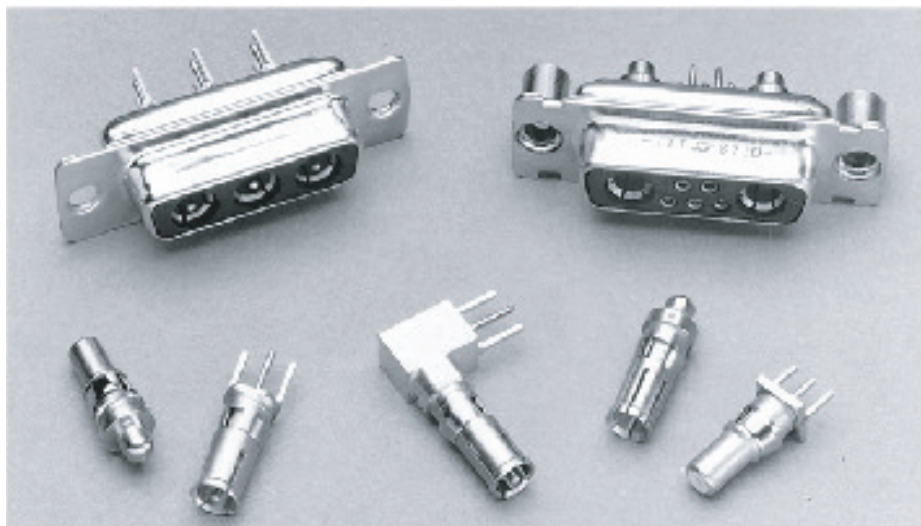
Combo D[®]

Combination D Subminiature connectors are the fastest growing segment of the D Subminiature market. ITT Cannon engineering teams, in keeping pace with the demands of the industry, have developed the broadest selection of combination D Subminiature available.

We offer the ability to intergrade signal and coax, high power, and high voltage. You can mix red, green, and blue video lines with signal and up to 40 amps of power in the same package.

Design variations of the new Combo D connector, versus other packaging methods, include the proven ITT Cannon polarized "D" shape to prevent mismatching; dense, space-saving packaging; and diverse mounting options. Choose from a variety of cable and printed wiring board selections. Printed wiring board combos come pre-assembled with fixed contacts eliminating the need to buy several components.

This new line of connectors offers you **unlimited design versatility**.



Straight and right angle printed wiring board contacts are available in both coax and high power versions.

Performance and Material Specifications

CONNECTOR ASSEMBLIES

Description	Material	Finish
Shell	Steel or Brass	Yellow Chromate Cadmium or Gold over Nickel
Insulator	Thermoplastic or Diallyl Phthalate, UL 94V-0 rated.	None
Size 20 contacts when applicable	Copper alloy	50μ inches gold over copper or 100μ gold over copper.
Bracket	Steel	Yellow Chromate over Cadmium
Rivnut	Steel or Copper alloy	

COAXIAL ASSEMBLY

Contacts and shells	Copper alloy	Gold over nickel or 50μ inches gold over copper.
Ring, retaining	Copper alloy	Nickel or Gold
Insulator	Teflon	None

U.L. File Number: E8572

DIELECTRIC WITHSTANDING VOLTAGE

		Altitude (feet/m)							
		Sea Level		20,000/6096		50,000/15240		70,000/1336	
Type of Contact		90°	Straight	90°	Straight	90°	Straight	90°	Straight
Center Conductor to Coaxial Shell	Average Flashover	1200	1500	900	1000	600	700	400	500
	Test	800	1000	600	650	400	475	275	325
Coaxial Shell to Nearest Standard Solder Pot Contact	Average Flashover	•	1500	•	1500	•	900	•	650
	Test	•	1000	•	1000	•	600	•	425
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
#20 Signal	Average Flashover	1700		1000		650		500	
	Test	1250		750		475		375	
HV Contact to Nearest Contact or to Shell	Average Flashover	3800	3800	2300	2300	900	900	650	650
	Test	2800	2800	1700	1700	675	675	475	475

All voltage figures are rms AC 60 rms cps, measured at approximately +25°C, 50% rh.

Impedance: 50 ohm

PERFORMANCE DATA

Signal Contact Current Rating	5 Amp
Temperature Rating	-65°C to +150°C
Signal Contact Resistance millivolt max	55 @ 7.5 Amp test current
Coax Impedance	50 ohm
Coax VSWR	Less than 1.3-1.0 up to 500 megahertz
Coax Insertion Loss	.1 db loss at 500 megahertz.

See *Commerical D Subminiature* catalog for additional Combo D options, including 75 ohm Coax.

Combo D® - Coaxial/ 75 and 50 Ohm

Coaxial Housing With Solder Cup Signal Contacts



- Cable combinations supplied with preloaded solder signal contacts
- 50 ohm coax contacts supplied separately (see pages 347-348)

Clinch Nut and Float Mount Options Available:

Add: E = 4-40 Clinch Nut

Y = Float Mounting

Example: DAMME3W3P

DANNT3W3P

Mounting Method Detail - Page 334.

Layout	Military Socket	Military Pin	NM Non-Magnetic Socket	NM Non-Magnetic Pin
DE-5W1	DEMM5W1S	DMM5W1P	DEM5W1S-NMB-K52	DEM5W1P-NMB-K52
DA-7W2	DAMM7W2S	DAMM7W2P	DAM7W2S-NMB-K52	DAM7W2P-NMB-K52
DA-11W1	DAMM11W1S	DAMM11W1P	DAM11W1S-NMB-K52	DAM11W1P-NMB-K52
DA-3W3	DAMM3W3S	DAMM3W3P	DAM3W3S-NMB-K47	DAM3W3P-NMB-K47
DB-5W5	DBMM5W5S	DBMM5W5P	DBM5W5S-NMB-K47	DBM5W5P-NMB-K47
DB-9W4	DBMM9W4S	DBMM9W4P	DBM9W4S-NMB-K52	DBM9W4P-NMB-K52
DB-13W3	DBMM13W3S	DBMM13W3P	DBM13W3S-NMB-K52	DBM13W3P-NMB-K52
DB-17W2	DBMM17W2S	DBMM17W2P	DBM17W2S-NMB-K52	DBM17W2P-NMB-K52
DB-21W1	DBMM21W1S	DBMM21W1P	DBM21W1S-NMB-K52	DBM21W1P-NMB-K52
DC-8W8	DCMM8W8S	DCMM8W8P	DCM8W8S-NMB-K47	DCM8W8P-NMB-K47
DC-13W6	DCMM13W6S	DCMM13W6P	DCM13W6S-NMB-K52	DCM13W6P-NMB-K52
DC-17W5	DCMM17W5S	DCMM17W5P	DCM17W5S-NMB-K52	DCM17W5P-NMB-K52
DC-21WA4	DCMM21WA4S	DCMM21WA4P	DCM21WA4S-NMB-K52	DCM21WA4P-NMB-K52
DC-25W3	DCMM25W3S	DCMM25W3P	DCM25W3S-NMB-K52	DCM25W3P-NMB-K52
DC-27W2	DCMM27W2S	DCMM27W2P	DCM27W2S-NMB-K52	DCM27W2P-NMB-K52
DD-24W7	DDMM24W7S	DDMM24W7P	DDM24W7S-NMB-K52	DDM24W7P-NMB-K52
DD-36W4	DDMM36W4S	DDMM36W4P	DDM36W4S-NMB-K52	DDM36W4P-NMB-K52
DD-43W2	DDMM43W2S	DDMM43W2P	DDM43W2S-NMB-K52	DDM43W2P-NMB-K52
DD-47W1	DDMM47W1S	DDMM47W1P	DDM47W1S-NMB-K52	DDM47W1P-NMB-K52

Contact Arrangements

(Will accommodate Removable Coax, Power and/or High Voltage Contacts)

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

Shell Size Contact Arrangement No. of Signal Contacts No. of Coaxial Contacts	E 5W1 4 #20 1	A 3W3 0 3	A 7W2 5 #20 2	A 11W1 10 #20 1	B 5W5 0 5	B 9W4 5 #20 4
Shell Size Contact Arrangement No. of Signal Contacts No. of Coaxial Contacts	B 13W3 10 #20 3	B 17W2 15 #20 2	B 21W1 20 #20 1	C 8W8 0 8		
Shell Size Contact Arrangement No. of Signal Contacts No. of Coaxial Contacts	C 13W6 7 #20 6	C 17W5 12 #20 5	C 21WA4 17 #20 4	C 25W3 22 #20 3		
Shell Size Contact Arrangement No. of Signal Contacts No. of Coaxial Contacts	C 27W2 25 #20 2	D 24W7 17 #20 7	D 36W4 32 #20 4			
Shell Size Contact Arrangement No. of Signal Contacts No. of Coaxial Contacts	D 43W2 41 #20 2	D 47W1 46 #20 1				

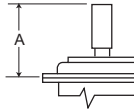
See *Commerical D Subminiature* catalog for additional Combo D options, including 75 ohm Coax.

Combo D® - Coaxial/50 Ohm

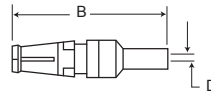
Cable Combinations - 50 Ohm Coaxial Contacts

Color Code: Receptacle - Blue; Plug - Red

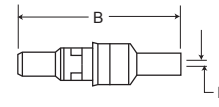
Straight Crimp Braid



(Dimensions include outer sleeve).



Receptacle

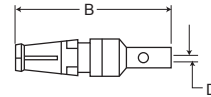
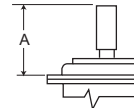


Plug

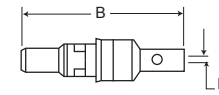
Crimp/Crimp		<i>NM</i> - Non-Magnetic		A	B	D	RG Cable No.	
Gold Over Nickel	Gold Over Nickel	50μ in. Gold Over Copper	50μ in. Gold Over Copper	Max.	Max.	Min.	Old	New
Plug	DM53740	DM53740-17		.739 (18.8)	.945 (24.00)	.040 (1.00)	196/U	178B/U
Plug	DM53740-37*	DM53740-15	DM53740-36	.739 (18.8)	.945 (24.00)	.067 (1.70)	187/U	179B/U
Plug	DM53740-35			.739 (18.8)	.945 (24.00)	.067 (1.70)	-	RD316
Plug	DM53740-3	DM53740-16		.847 (21.5)	1.037 (26.34)	.110 (2.79)	195/U	180B/U
Plug	DM53740-5	DM53740-18		.847 (21.5)	1.037 (26.34)	.125 (3.18)	58/U	58B/U
Receptacle	DM53742	DM53742-18		.739 (18.8)	.945 (24.00)	.040 (1.00)	196/U	178B/U
Receptacle	DM53742-38*	DM53742-1	DM53742-37	.739 (18.8)	.945 (24.00)	.067 (1.70)	187/U	179B/U
Receptacle	DM53742-36			.739 (18.8)	.945 (24.00)	.067 (1.70)	-	RD316
Receptacle	DM53742-3	DM53742-17		.847 (21.5)	1.037 (26.34)	.110 (2.79)	195/U	180B/U
Receptacle	DM53742-5	DM53742-19		.847 (21.5)	1.037 (26.34)	.125 (3.18)	58/U	58B/U

* Consult factory for center contact crimp tooling.

Straight Crimp Braid



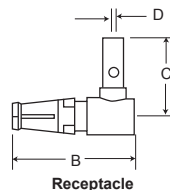
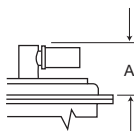
Receptacle



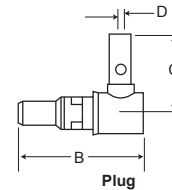
Plug

<i>NM</i> - Non-Magnetic				A	B	D	RG Cable No.	
	Gold Over Nickel	50μ in. Gold Over Copper	50μ in. Gold Over Copper	Max.	Max.	Min.	Old	New
Plug	DM53740-5008	DM53740-5105		.739 (18.8)	.945 (24.00)	.040 (1.00)	196/U	178B/U
Plug	DM53740-5001	DM53740-5099	DM53740-5147	.739 (18.8)	.945 (24.00)	.067 (1.70)	187/U	179B/U
Plug	DM53740-5145			.739 (18.8)	.945 (24.00)	.067 (1.70)	-	RD316
Plug	DM53740-5002	DM53740-5104		.847 (21.5)	1.037 (26.34)	.110 (2.79)	195/U	180B/U
Plug	DM53740-5005	DM53740-5101		.847 (21.5)	1.037 (26.34)	.125 (3.18)	58/U	58/U
Receptacle	DM53742-5006	DM53742-5092		.739 (18.8)	.945 (24.00)	.040 (1.00)	196/U	178B/U
Receptacle	DM53742-5001	DM53742-5089	DM53742-5127	.739 (18.8)	.945 (24.00)	.067 (1.70)	187/U	179B/U
Receptacle	DM53742-5126			.739 (18.8)	.945 (24.00)	.067 (1.70)	-	RD316
Receptacle	DM53742-5002	DM53742-5091		.847 (21.5)	1.037 (26.34)	.110 (2.79)	195/U	180B/U
Receptacle	DM53742-5004	DM53742-5086		.847 (21.5)	1.037 (26.34)	.125 (3.18)	58/U	58/U
Plug (Short Type)	DM53740-5000	DM53740-5100	.670 (17.0)	.874 (22.20)	.045 (1.14)	196/U	178B/U	
Receptacle (Short Type)	DM53742-5000	DM53742-5085	.670 (17.0)	.874 (22.20)	.045 (1.14)	196/U	178B/U	

Right Angle Solder Braid



Receptacle



Plug

	Gold Over Nickel	50μ in. Gold Over Copper	A Max.	B Max.	C	D Min.	RG Cable No.	
							Old	New
Plug	DM53741-5000	DM53741-5059	.530 (13.46)	.745 (18.92)	.544 (15.10)	.040 (1.00)	196/U	178B/U
Plug	DM53741-5001	DM53741-5062	.530 (13.46)	.745 (18.92)	.544 (15.10)	.067 (1.70)	187/U 316B/U	178B/U 316B/U
Plug	DM53741-5003	DM53741-5063	.530 (13.46)	.745 (18.92)	.630 (16.00)	.110 (2.79)	195/U	180B/U
Plug	DM53741-5004	DM53741-5060	.530 (13.46)	.745 (18.92)	.630 (16.00)	.125 (3.18)	58/U	58/U
Receptacle	DM53743-5000	DM53743-5073	.530 (13.46)	.745 (18.92)	.594 (15.09)	.040 (1.00)	196/U	178B/U
Receptacle	DM53743-5001	DM53743-5076	.530 (13.46)	.745 (18.92)	.594 (15.09)	.067 (1.70)	187/U 188/U	179B/U 316B/U
Receptacle	DM53743-5003	DM53743-5077	.530 (13.46)	.745 (18.92)	.630 (16.00)	.110 (2.79)	195/U	180B/U
Receptacle	DM53743-5004	DM53743-5074	.530 (13.46)	.745 (18.92)	.630 (16.00)	.125 (3.18)	58/U	58B/U

Highlighted part numbers indicate standard product; usually available with shorter lead times.

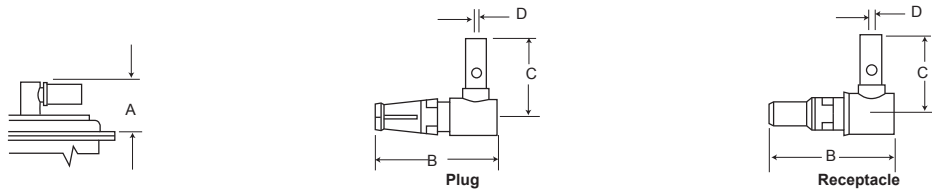
See *Commerical D Subminiature* catalog for additional Combo D options, including 75 ohm Coax.

Combo D® - Coaxial/50 Ohm

Cable Combinations - 50 Ohm Coaxial Contacts (Continued)

Right Angle Crimp Braid

(Dimensions include outer sleeve.)
Color Code: Receptacle - Blue; Plug - Red



	Part Number		A Max.	B Ref.	C	D ± .005 (0.13)	RG Cable No.	
	Gold Over Nickel	50μ in. Gold Over Copper					Old	New
Plug	DM53741	DM53741-12	.530 (13.46)	.745 (18.92)	.594 (15.10)	.045 (1.14)	196/U	178B/U
Plug	DM53741-1	DM53741-11	.530 (13.46)	.745 (18.92)	.594 (15.10)	.072 (1.83)	187/U 188/U	179B/U 316B/U
Plug	DM53741-3	DM53741-10	.530 (13.46)	.745 (18.92)	.630 (16.00)	.110 (2.79)	195/U	180B/U
Plug	DM53741-4	DM53741-13	.530 (13.46)	.745 (18.92)	.630 (16.00)	.125 (3.18)	58/U	58B/U
Receptacle	DM53743-2	DM53743-18	.530 (13.46)	.745 (18.92)	.594 (15.10)	.045 (1.14)	196/U	178B/U
Receptacle	DM53743-3	DM53743-16	.530 (13.46)	.745 (18.92)	.594 (15.10)	.072 (1.83)	187/U 188/U	179B/U 316B/U
Receptacle	DM53743-5	DM53743-17	.530 (13.46)	.745 (18.92)	.630 (16.00)	.110 (2.79)	195/U	180B/U
Receptacle	DM53743-6	DM53743-19	.530 (13.46)	.745 (18.92)	.630 (16.00)	.125 (3.18)	58/U	58B/U

Insertion/Extractoin Instructions

Coaxial, High Power and High Voltage Contacts

Insertion

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

RED COLOR CODED CONNECTOR
ACCEPTS PLUG CONTACTS.

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

INSERT

INSERT

PLUG CONTACT
D*M PLUG

RECEPTACLE CONTACT
D*M RECEPTACLE

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.

TOOL PLUNGER
COAXIAL, H.V., OR
POWER CONTACTS

D*M PLUG

EXTRACT

TOOL TIP

EXTRACTION TOOL CET-C6B

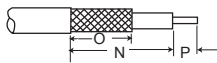
Hand Tool with intergral die set for all coax straight crimp braid. Part Number: 070051-0000 (CCT-DM)

See Commerical D Subminiature catalog for additional Combo D options, including 75 ohm Coax.

Combo D® - Coaxial/50 Ohm

Coax Assembly Instructions

Trim Dimensions



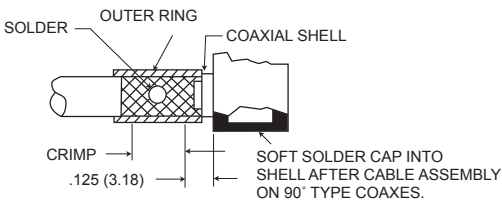
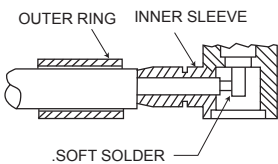
RG Cable No.	Straight			Right Angle		
	N	O	P	N	O	P
196/U, 178B/U, 187/U 188/U, 179B/U, 316B/U	.312 (7.92)	.250 (6.35)	.078 (1.98)	.375 (9.52)	.234 (5.94)	.062 (1.57)
195/U, 180B/U 58/U, 58B/U	.375 (9.52)	.312 (7.92)	.078 (1.98)	.422 (10.69)	.312 (7.92)	.094 (2.39)

All tolerances $\pm .010$ (0.25)

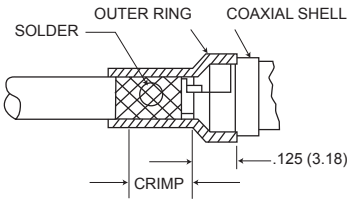
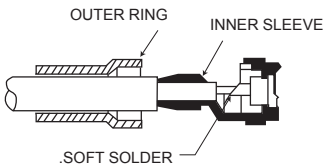
Crimp Tooling

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	B
195/U, 180B/U 58/U, 58B/U	070051-0000	CCT-DM	A

90° Coaxial



Straight 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.

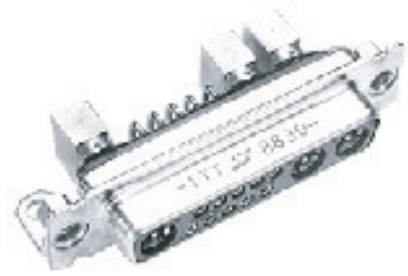
STEP 2: Straight and 90° Coaxials

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 types 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.

See *Commerical D Subminiature* catalog for additional Combo D options, including 75 ohm Coax.

Combo D® - Coaxial/50 Ohm

Right Angle Receptacle for PCB Mounting



PCB Layouts - Page 352

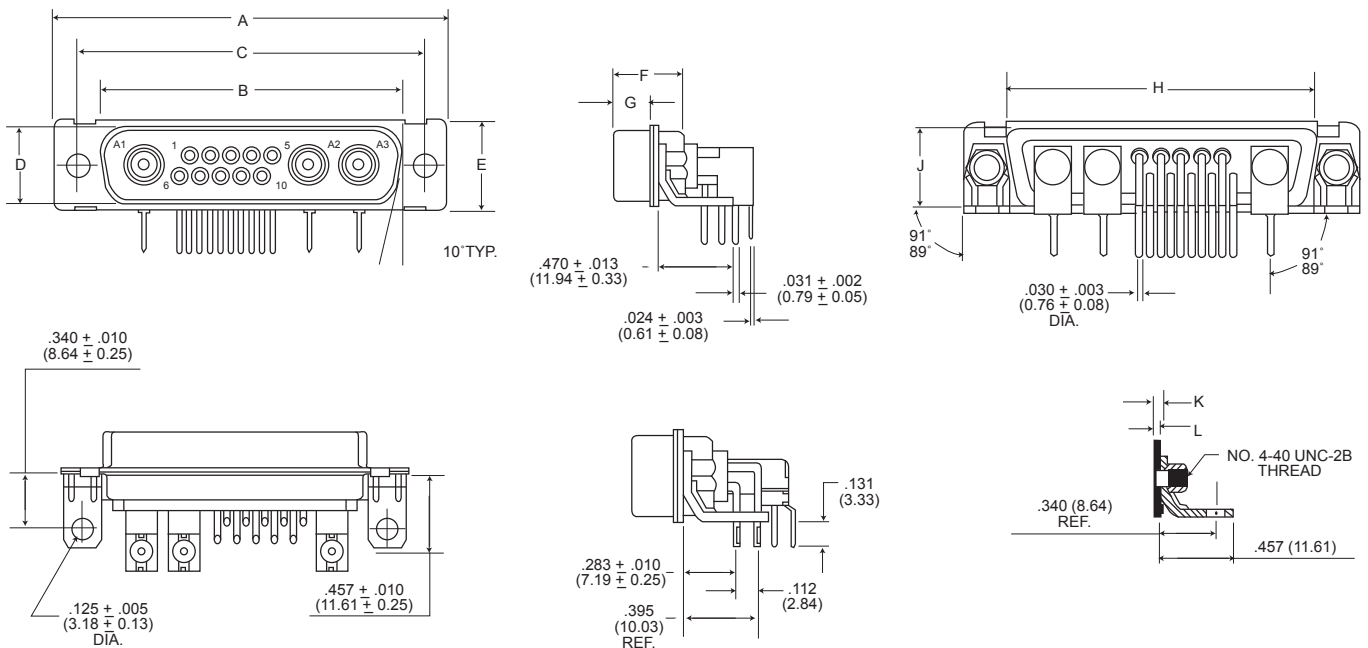
Military part numbers come complete with fixed, female, signal and coaxial contacts and right angle brackets.

Military part numbers come with coaxial contacts.

Non-magnetic part numbers must use coaxial contacts from Page 347 and do not come with brackets.

Layout	Military	NM Non-Magnetic
DE-5W1	DEMMP5X1SP	DEM5W1SP-NMB-K52
DA-7W2	DAMMP7X2SP	DAM7W2SP-NMB-K52
DA-11W1	DAMMP11X1SP	DAM11W1SP-NMB-K52
DA-3W3	DAMMP3X3SP	DAM3W3SP-NMB-K47
DB-5W5	DBMMP5X5SP	DBM5W5SP-NMB-K47
DB-9W4	DBMMP9X4SP	DBM9W4SP-NMB-K52
DB-13W3	DBMMP13X3SP	DBM13W3SP-NMB-K52
DB-17W2	DBMMP17X2SP	DBM17W2SP-NMB-K52
DB-21W1	DBMMP21X1SP	DBM21W1SP-NMB-K52
DC-8W8	DCMMP8X8SP	DCM8W8SP-NMB-K47
DC-13W6	DCMMP13X6SP	DCM13W6SP-NMB-K52
DC-17W5	DCMMP17X5SP	DCM17W5SP-NMB-K52
DC-21WA4	DCMMP21XA4SP	DCM21WA4SP-NMB-K52
DC-25W3	DCMMP25X3SP	DCM25W3SP-NMB-K52
DC-27W2	DCMMP27X2SP	DCM27W2SP-NMB-K52

Dimensions



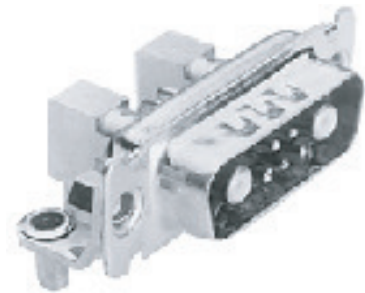
SOCKET CONNECTOR ASSEMBLY (Female)

Shell Size	A ± .015 (0.38)	B ± .005 (0.13)	C ± .005 (0.13)	D ± .005 (0.13)	E ± .015 (0.38)	F ± .005 (0.13)	G ± .005 (0.13)	H ± .010 (0.25)	J ± .010 (0.25)	K ± .013 (0.33)	L ± .010 (0.25)
DE	1.213 (30.81)	.643 (16.33)	.984 (24.99)	.311 (7.90)	.494 (12.55)	.429 (10.90)	.243 (6.17)	.759 (19.28)	.422 (10.72)	.048 (1.22)	.030 (0.76)
DA	1.541 (39.14)	.971 (24.66)	1.312 (33.32)	.311 (7.90)	.494 (12.55)	.429 (10.90)	.243 (6.17)	1.083 (27.51)	.422 (10.72)	.048 (1.22)	.030 (0.76)
DB	2.088 (53.03)	1.511 (38.38)	1.852 (47.04)	.311 (7.90)	.494 (12.55)	.429 (10.90)	.243 (6.17)	1.625 (41.27)	.422 (10.72)	.048 (1.22)	.039 (0.99)
DC	2.729 (69.31)	2.159 (54.84)	2.500 (63.50)	.311 (7.90)	.494 (12.55)	.429 (10.90)	.243 (6.17)	2.272 (57.71)	.422 (10.72)	.048 (1.22)	.039 (0.99)

See *Commerical D Subminiature* catalog for additional Combo D options, including 75 ohm Coax.

Combo D® - Coaxial/50 Ohm

Right Angle Plug for PCB Mounting



PCB Layouts - Page 352

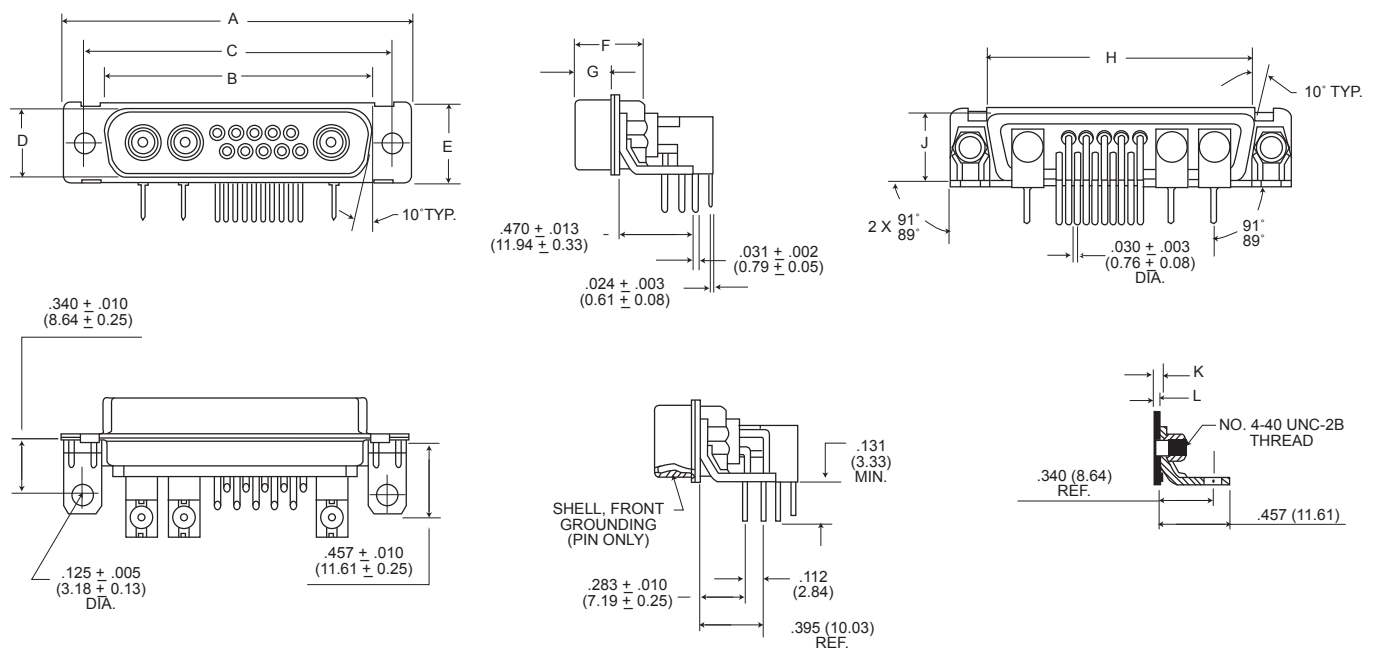
Military part numbers come complete with fixed, female, signal and right angle brackets.

Military part numbers come with coaxial contacts.

Non-magnetic part numbers must use coaxial contacts from Page 347 and do not come with brackets.

Layout	Military	NM Non-Magnetic
DE-5W1	DEMMP5X1PP	DEM5W1PP-NMB-K52
DA-7W2	DAMMP7X2PP	DAM7W2PP-NMB-K52
DA-11W1	DAMM11X1PP	DAM11W1PP-NMB-K52
DA-3W3	DAMM3X3PP	DAM3W3PP-NMB-K47
DB-5W5	DBMM5X5PP	DBM5W5PP-NMB-K47
DB-9W4	DBMM9X4PP	DBM9W4PP-NMB-K52
DB-13W3	DBMM13X3PP	DBM13W3PP-NMB-K52
DB-17W2	DBMM17X2PP	DBM17W2PP-NMB-K52
DB-21W1	DBMM21X1PP	DBM21W1PP-NMB-K52
DC-8W8	DCMM8X8PP	DCM8W8PP-NMB-K47
DC-13W6	DCMM13X6PP	DCM13W6PP-NMB-K52
DC-17W5	DCMM17X5PP	DCM17W5PP-NMB-K52
DC-21WA4	DCMM21XA4PP	DCM21WA4PP-NMB-K52
DC-25W3	DCMM25X3PP	DCM25W3PP-NMB-K52
DC-27W2	DCMM27X2PP	DCM27W2PP-NMB-K52

Dimensions



PLUG CONNECTOR ASSEMBLY (Male)

Shell Size	A ± .015 (0.38)	B ± .005 (0.13)	C ± .005 (0.13)	D ± .005 (0.13)	E ± .015 (0.38)	F ± .005 (0.13)	G ± .006 (0.15)	H ± .010 (0.25)	J ± .010 (0.25)	K ± .013 (0.33)	L ± .010 (0.25)
DE	1.213 (30.81)	.666 (16.91)	.984 (24.99)	.329 (8.36)	.494 (12.55)	.422 (10.72)	.236 (5.99)	.759 (19.28)	.422 (10.72)	.048 (1.22)	.030 (0.76)
DA	1.541 (39.14)	.994 (25.24)	1.312 (33.32)	.329 (8.36)	.494 (12.55)	.422 (10.72)	.236 (5.99)	1.083 (27.51)	.422 (10.72)	.048 (1.22)	.030 (0.76)
DB	2.088 (53.03)	1.534 (38.96)	1.852 (47.04)	.329 (8.36)	.494 (12.55)	.426 (10.82)	.231 (5.87)	1.625 (41.27)	.422 (10.72)	.060 (1.52)	.039 (0.99)
DC	2.729 (69.31)	2.182 (55.42)	2.500 (63.50)	.329 (8.36)	.494 (12.55)	.426 (10.82)	.231 (5.87)	2.272 (57.71)	.422 (10.72)	.060 (1.52)	.039 (0.99)

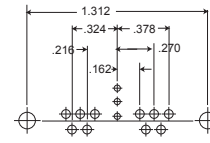
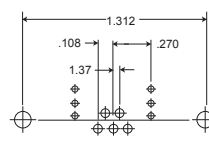
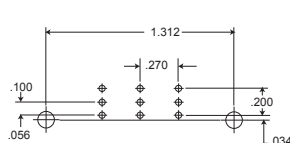
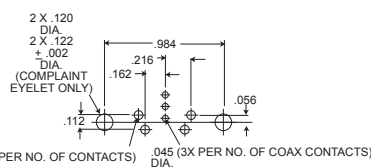
See *Commerical D Subminiature* catalog for additional Combo D options, including 75 ohm Coax.

Combo D® - Coaxial

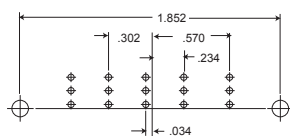
Right Angle Printed Circuit Board Hole Patterns

Face view, pin insert

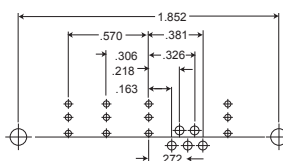
(for receptacle, hole pattern is a mirror image)



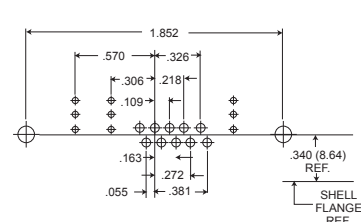
Shell Size **E**
Contact Arrangement **5W1**
No. of Signal Contacts **4 #20**
No. of Coaxial Contacts **1**



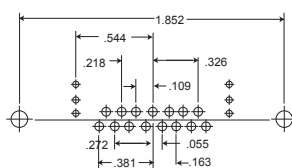
Shell Size **A**
Contact Arrangement **3W3**
No. of Signal Contacts **0**
No. of Coaxial Contacts **3**



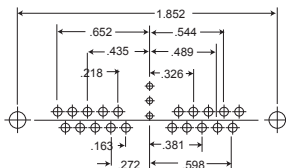
Shell Size **A**
Contact Arrangement **7W2**
No. of Signal Contacts **5 #20**
No. of Coaxial Contacts **2**



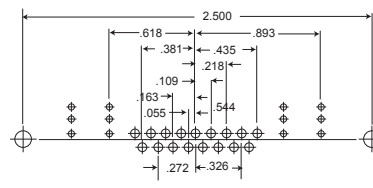
Shell Size **B**
Contact Arrangement **5W5**
No. of Signal Contacts **0**
No. of Coaxial Contacts **5**



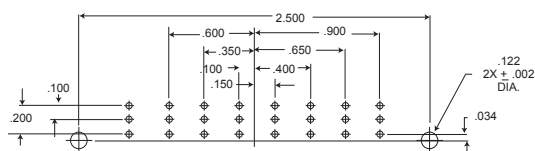
Shell Size **B**
Contact Arrangement **9W4**
No. of Signal Contacts **5 #20**
No. of Coaxial Contacts **4**



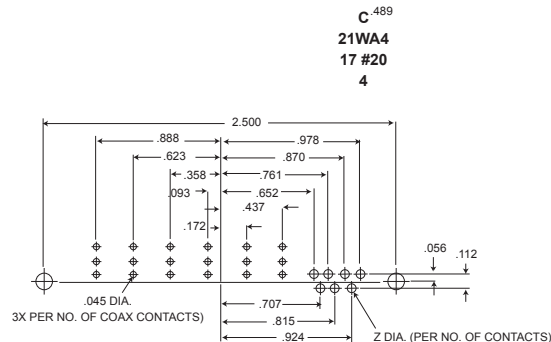
Shell Size **B**
Contact Arrangement **13W3**
No. of Signal Contacts **10 #20**
No. of Coaxial Contacts **3**



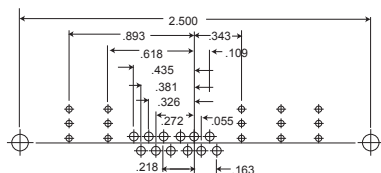
Shell Size **B**
Contact Arrangement **17W2**
No. of Signal Contacts **15 #20**
No. of Coaxial Contacts **2**



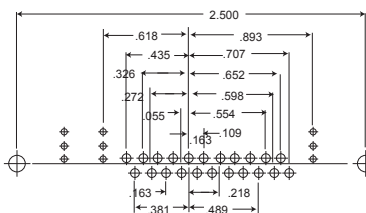
Shell Size **B**
Contact Arrangement **21W1**
No. of Signal Contacts **20 #20**
No. of Coaxial Contacts **1**



Shell Size **C**
Contact Arrangement **8W8**
No. of Signal Contacts **0**
No. of Coaxial Contacts **8**

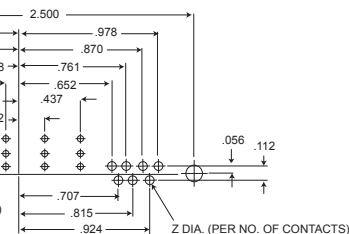


Shell Size **C**
Contact Arrangement **17W5**
No. of Signal Contacts **12 #20**
No. of Coaxial Contacts **5**



Shell Size **C**
Contact Arrangement **25W3**
No. of Signal Contacts **22 #20**
No. of Coaxial Contacts **3**

Shell Size **C**
Contact Arrangement **13W6**
No. of Signal Contacts **7 #20**
No. of Coaxial Contacts **6**

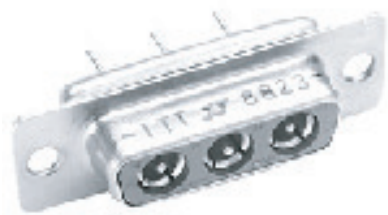


Size #20	Z
Contact PC	Dia.
Tail Dia.	
.030 (0.76)	.045 (1.14)

See *Commerical D Subminiature* catalog for additional Combo D options, including 75 ohm Coax.

Combo D® - Coaxial/50 Ohm

Straight Receptacle for PCB Mounting



PCB Hole Patterns - Pages 354-355

Part numbers come complete with fixed, female, signal and coaxial contacts.

Layout	Military	<i>NM</i>
		Non-Magnetic
DE-5W1	DEMM5X1SM	DEM5X1SM-NM-K52
DA-7W2	DAMM7X2SM	DAM7X2SM-NM-K52
DA-11W1	DAMM11X1SM	DAM11X1SM-NM-K52
DA-3W3	DAMM3X3SM	DAM3X3SM-NM-K52
DB-5W5	DBMM5X5SM	DBM5X5SM-NM-K52
DB-9W4	DBMM9X4SM	DBM9X4SM-NM-K52
DB-13W3	DBMM13X3SM	DBM13X3SM-NM-K52
DB-17W2	DBMM17X2SM	DBM17X2SM-NM-K52
DB-21W1	DBMM21X1SM	DBM21X1SM-NM-K52
DC-8W8	DCMM8X8SM	DCM8X8SM-NM-K52
DC-13W6	DCMM13X6SM	DCM13X6SM-NM-K52
DC-17W5	DCMM17X5SM	DCM17X5SM-NM-K52
DC-21WA4	DCMM21XA4SM	DCM21XA4SM-NM-K52
DC-25W3	DCMM25X3SM	DCM25X3SM-NM-K52
DD-24W7	DCMM24X7SM	DCM24X7SM-NM-K52
DC-27W2	DCMM27X2SM	DCM27X2SM-NM-K52
DD-24W7	DDMM24X7SM	DDM24X7SM-NM-K52
DD-36W4	DDMM36X4SM	DDM36X4SM-NM-K52
DD-43W2	DDMM43X2SM	DDM43X2SM-NM-K52
DD-47W1	DDMM47X1SM	DDMC47X1SM-NM-K52

Straight Plug for PCB Mounting (Board Thickness up to .125 [3.18])

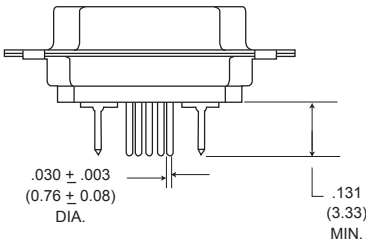


PCB Hole Patterns - Pages 354-355

Part numbers come complete with fixed, male, signal and coaxial contacts.

Layout	Military	<i>NM</i>
		Non-Magnetic
DE-5W1	DEMM5X1PM	DEM5X1PM-NM-K52
DA-7W2	DAMM7X2PM	DAM7X2PM-NM-K52
DA-11W1	DAMM11X1PM	DAM11X1PM-NM-K52
DA-3W3	DAMM3X3PM	DAM3X3PM-NM-K52
DB-5W5	DBMM5X5PM	DBM5X5PM-NM-K52
DB-9W4	DBMM9X4PM	DBM9X4PM-NM-K52
DB-13W3	DBMM13X3PM	DBM13X3PM-NM-K52
DB-17W2	DBMM17X2PM	DBM17X2PM-NM-K52
DB-21W1	DBMM21X1PM	DBM21X1PM-NM-K52
DC-8W8	DCMM8X8PM	DCM8X8PM-NM-K52
DC-13W6	DCMM13X6PM	DCM13X6PM-NM-K52
DC-17W5	DCMM17X5PM	DCM17X5PM-NM-K52
DC-21WA4	DCMM21XA4PM	DCM21XA4PM-NM-K52
DC-25W3	DCMM25X3PM	DCM25X3PM-NM-K52
DC-27W2	DCMM27X2PM	DCM27X2PM-NM-K52
DD-24W7	DDMM24X7PM	DDM24X7PM-NM-K52
DD-36W4	DDMM36X4PM	DDM36X4PM-NM-K52
DD-43W2	DDMM43X2PM	DDM43X2PM-NM-K52
DD-47W1	DDMM47X1PM	DDM47X1PM-NM-K52

Dimensions

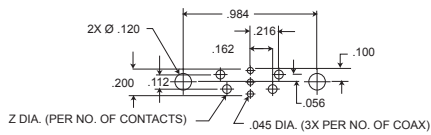


See *Commerical D Subminiature* catalog for additional Combo D options, including 75 ohm Coax.

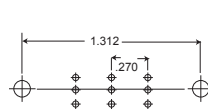
Combo D® - Coaxial

Straight Printed Circuit Board Hole Patterns

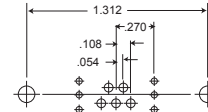
Face view, pin insert
(for receptacle, hole pattern is a mirror image)



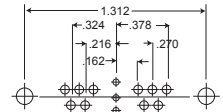
Shell Size **E**
Contact Arrangement **5W1**
No. of Signal Contacts **4 #20**
No. of PC Coaxial Contacts **1**



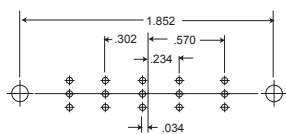
Shell Size **A**
Contact Arrangement **3W3**
No. of Signal Contacts **-**
No. of PC Coaxial Contacts **3**



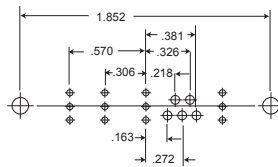
Shell Size **A**
Contact Arrangement **7W2**
No. of Signal Contacts **5 #20**
No. of PC Coaxial Contacts **2**



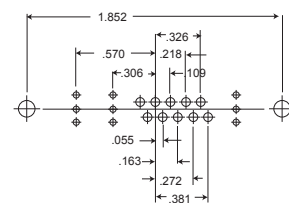
Shell Size **A**
Contact Arrangement **11W1**
No. of Signal Contacts **10 #20**
No. of PC Coaxial Contacts **1**



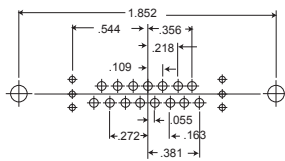
Shell Size **B**
Contact Arrangement **5W5**
No. of Signal Contacts **-**
No. of PC Coaxial Contacts **5**



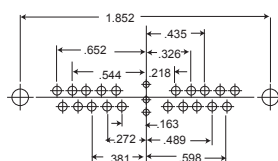
Shell Size **B**
Contact Arrangement **9W4**
No. of Signal Contacts **5 #20**
No. of PC Coaxial Contacts **4**



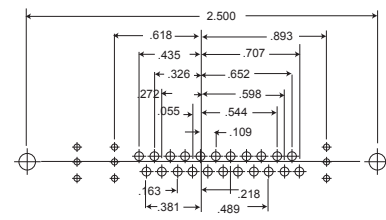
Shell Size **B**
Contact Arrangement **13W3**
No. of Signal Contacts **10 #20**
No. of PC Coaxial Contacts **3**



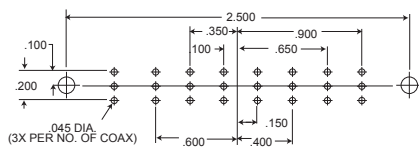
Shell Size **B**
Contact Arrangement **17W2**
No. of Signal Contacts **15 #20**
No. of PC Coaxial Contacts **2**



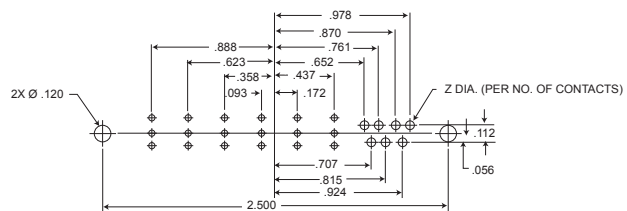
Shell Size **B**
Contact Arrangement **21W1**
No. of Signal Contacts **20 #20**
No. of PC Coaxial Contacts **1**



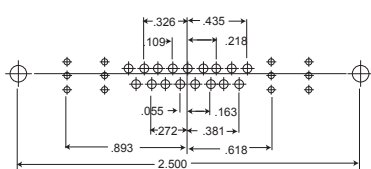
Shell Size **C**
Contact Arrangement **25W3**
No. of Signal Contacts **22 #20**
No. of PC Coaxial Contacts **3**



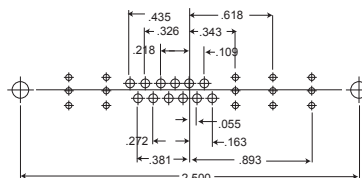
Shell Size **C**
Contact Arrangement **8W8**
No. of Signal Contacts **-**
No. of PC Coaxial Contacts **8**



Shell Size **C**
Contact Arrangement **13W6**
No. of Signal Contacts **7 #20**
No. of PC Coaxial Contacts **6**



Shell Size **C**
Contact Arrangement **21WA4**
No. of Signal Contacts **17 #20**
No. of PC Coaxial Contacts **4**



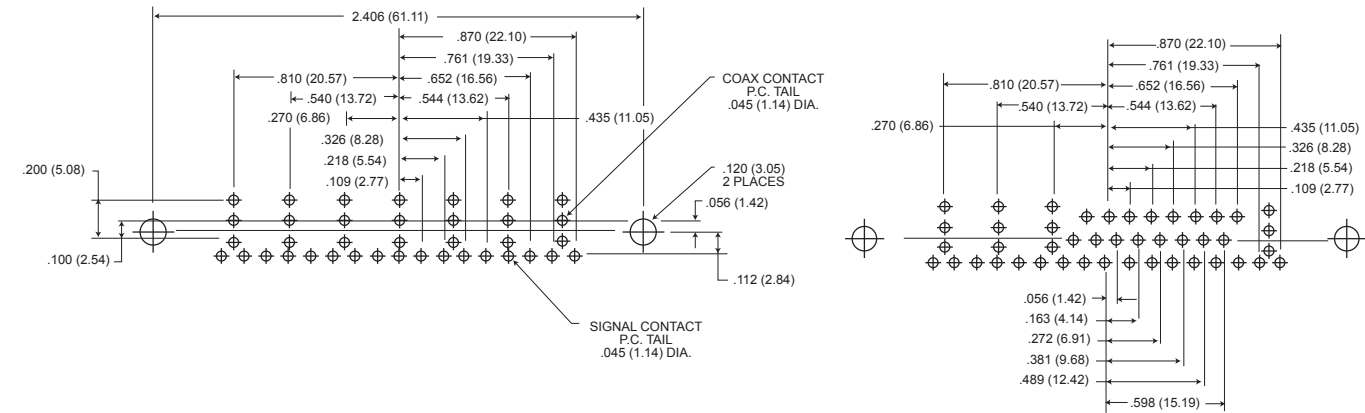
Shell Size **C**
Contact Arrangement **17W5**
No. of Signal Contacts **12 #20**
No. of PC Coaxial Contacts **5**

Size No. 20	2
Contact PC	Dia.
Tail Dia.	.030 (0.76)
	.045 (1.14)

Combo D® - Coaxial

Straight Printed Circuit Board Hole Patterns

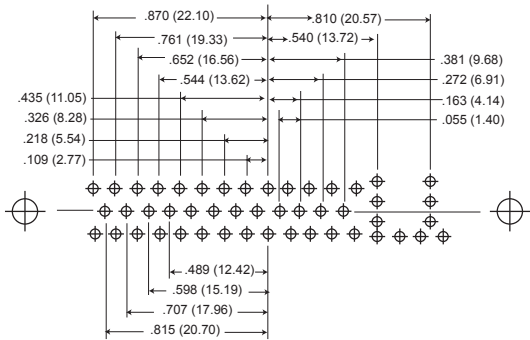
Face view, pin insert
(for receptacle, hole pattern is a mirror image)



Shell Size
Contact Arrangement
No. of Signal Contacts
No. of Coaxial Contacts

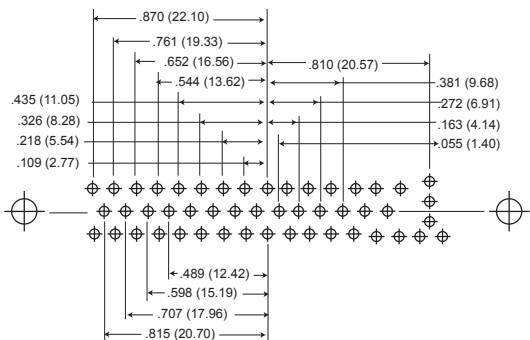
D
24W7
17 #20
7

D
36W4
32 #20
4



Shell Size
Contact Arrangement
No. of Signal Contacts
No. of Coaxial Contacts

D
43W2
41 #20
2



D
47W1
46 #20
1

Combo D® - High Voltage

Coaxial Housings With Solder Cup Signal Contacts

High voltage contacts supplied separately.



Contact Arrangements: Page 346 of Coax section
Performance Specifications: Page 345 of Coax section.

Clinch Nut and Float Mount Options Available:

Add: E = 4-40 Clinch Nut

Y = Float Mounting

Example: DAMME3W3P

DAMMY3W3P

See page 334 for Mounting Method Detail.

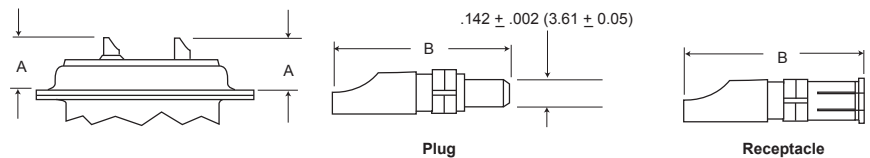
Cable Combinations supplied with preloaded solder signal contacts. High Power Contacts supplied separately, see below.

Extraction Tool for High Power Contacts are the same as for 50 Ohm Coaxial Contacts. See page 348.

Layout	Military Socket	Military Pin	NM - Non-Magnetic Socket	NM - Non-Magnetic Pin
DE-5W1	DEMM5W1S	DEMM5W1P	DEM5W1S-NMB-K52	DEM5W1P-NMB-K52
DA-7W2	DAMM7W2S	DAMM7W2P	DAM7W2S-NMB-K52	DAM7W2P-NMB-K52
DA-11W1	DAMM11W1S	DAMM11W1P	DAM11W1S-NMB-K52	DAM11W1P-NMB-K52
DA-3W3	DAMM3W3S	DAMM3W3P	DAM3W3S-NMB-K47	DAM3W3P-NMB-K47
DB-5W5	DBMM5W5S	DBMM5W5P	DBM5W5S-NMB-K47	DBM5W5P-NMB-K47
DB-9W4	DBMM9W4S	DBMM9W4P	DBM9W4S-NMB-K52	DBM9W4P-NMB-K52
DB-13W3	DBMM13W3S	DBMM13W3P	DBM13W3S-NMB-K52	DBM13W3P-NMB-K52
DB-17W2	DBMM17W2S	DBMM17W2P	DBM17W2S-NMB-K52	DBM17W2P-NMB-K52
DB-21W1	DBMM21W1S	DBMM21W1P	DBM21W1S-NMB-K52	DBM21W1P-NMB-K52
DC-8W8	DCMM8W8S	DCMM8W8P	DCM8W8S-NMB-K47	DCM8W8P-NMB-K47
DC-13W6	DCMM13W6S	DCMM13W6P	DCM13W6S-NMB-K52	DCM13W6P-NMB-K52
DC-17W5	DCMM17W5S	DCMM17W5P	DCM17W5S-NMB-K52	DCM17W5P-NMB-K52
DC-21WA4	DCMM21WA4S	DCMM21WA4P	DCM21WA4S-NMB-K52	DCM21WA4P-NMB-K52
DC-25W3	DCMM25W3S	DCMM25W3P	DCM25W3S-NMB-K52	DCM25W3P-NMB-K52
DC-27W2	DCMM27W2S	DCMM27W2P	DCM27W2S-NMB-K52	DCM27W2P-NMB-K52
DD-24W7	DDMM24W7S	DDMM24W7P	DDM24W7S-NMB-K52	DDM24W7P-NMB-K52
DD-36W4	DDMM36W4S	DDMM36W4P	DDM36W4S-NMB-K52	DDM36W4P-NMB-K52
DD-43W2	DDMM43W2S	DDMM43W2P	DDM43W2S-NMB-K52	DDM43W2P-NMB-K52
DD-47W1	DDMM47W1S	DDMM47W1P	DDM47W1S-NMB-K52	DDM47W1P-NMB-K52

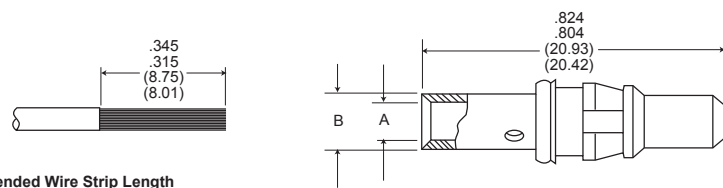
High Power Contacts

Solder Type



	Gold over Nickel	50μ in. Gold over Copper	NM - Non-Magnetic 50μ in. Gold over Copper	A Max.	B Ref.	Current Rating (Amps)	Wire Size
Plug	DM53745-1	DM53745-28	DM53745-70	.666 (16.92)	.866 (22.00)	40	#8
Plug	DM53745-7	DM53745-27	DM53745-77	.666 (16.92)	.866 (22.00)	20	#12
Plug	DM53745-8	DM53745-25	DM53745-70	.666 (16.92)	.866 (22.00)	10	#16
Receptacle	DM53744-1	DM53744-21	DM53744-62	.666 (16.92)	.856 (21.74)	40	#8
Receptacle	DM53744-6	DM53744-25	DM53744-64	.666 (16.92)	.856 (21.74)	20	#12
Receptacle	DM53744-7	DM53744-24	DM53744-63	.666 (16.92)	.856 (21.74)	10	#16

Crimp Type



Recommended Wire Strip Length

	Gold over Nickel	50μ in. Gold over Copper	A Dia. Max.	B Dia. Max.	Current Rating (Amps)	Wire Size
Plug	DM130338-4	DM130338	.181 (4.60)	.230 (5.84)	40	#8
Plug	DM130339-4	DN130339	.100 (2.54)	.218 (5.54)	20	#12
Plug	DM130340-4	DM130340	.067 (1.07)	.102 (2.59)	10	#16
Receptacle	DM130341-4	DM130341	.181 (4.60)	.230 (5.84)	40	#8
Receptacle	DM130342-4	DM130342	.100 (2.54)	.218 (5.54)	20	#12
Receptacle	DM130343-4	DM130343	.067 (1.07)	.102 (2.59)	10	#16

Crimp Tooling - Page 357.

See Commerical D Subminiature catalog for PCB High Power connectors.



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

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