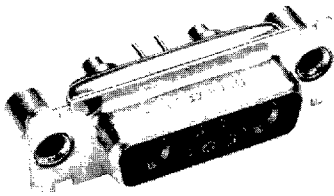


Straight Receptacle for PCB Mounting (Board Thickness Up to .125 [3.18])



PCB Hole Patterns - Pages 45-46

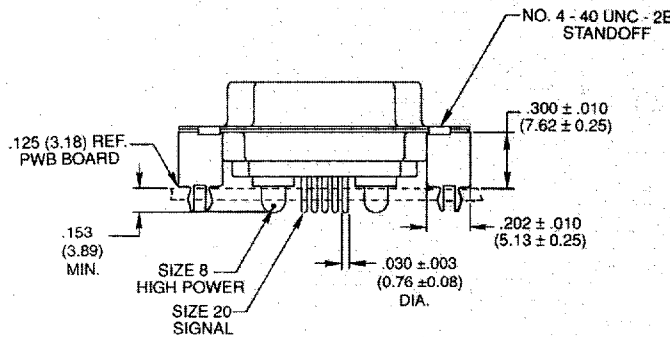
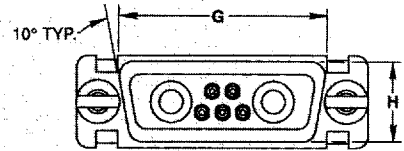
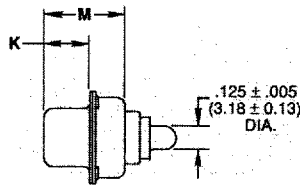
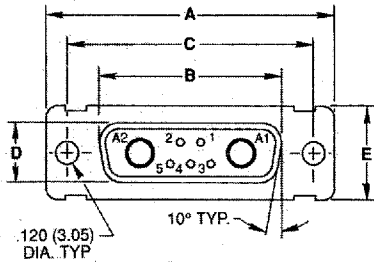
Part numbers come complete with fixed, female, signal and high power contacts and standoffs.

Tin PC tails - Add -A220.

Contact Finish Integral Boardlock	Gold Over Ni. No	Gold Over Ni. Yes	30µ in. Gold No	30µ in. Gold Yes
DE-5W1	DEM5H1SNA197	DEM25H1SNA197	DEM5H1SNK126	DEM25H1SNK126
DA-7W2	DAMV7H2SNA197	DAMZ7H2SNA197	DAMV7H2SNK126	DAMZ7H2SNK126
DA-11W1	DAMV11H1SNA197	DAMZ11H1SNA197	DAMV11H1SNK126	DAMZ11H1SNK126
DA-3W3	DAMV3H3SNA197	DAMZ3H3SNA197	DAMV3H3SNK126	DAMZ3H3SNK126
DB-5W5	DBMV5H5SNA197	DBMZ5H5SNA197	DBMV5H5SNK126	DBMZ5H5SNK126
DB-9W4	DBMV9H4SNA197	DBMZ9H4SNA197	DBMV9H4SNK126	DBMZ9H4SNK126
DB-13W3	DBMV13H3SNA197	DBMZ13H3SNA197	DBMV13H3SNK126	DBMZ13H3SNK126
DB-17W2	DBMV17H2SNA197	DBMZ17H2SNA197	DBMV17H2SNK126	DBMZ17H2SNK126
DB-21W1	DBMV21H1SNA197	DBMZ21H1SNA197	DBMV21H1SNK126	DBMZ21H1SNK126
DC-8W8	DCMV8H8SNA197	DCMZ8H8SNA197	DCMV8H8SNK126	DCMZ8H8SNK126
DC-13W6	DCMV13H6SNA197	DCMZ13H6SNA197	DCMV13H6SNK126	DCMZ13H6SNK126
DC-17W5	DCMV17H5SNA197	DCMZ17H5SNA197	DCMV17H5SNK126	DCMZ17H5SNK126
DC-21WA4	DCMV21HA4SNA197	DCMZ21HA4SNA197	DCMV21HA4SNK126	DCMZ21HA4SNK126
DC-25W3	DCMV25H3SNA197	DCMZ25H3SNA197	DCMV25H3SNK126	DCMZ25H3SNK126
DC-27W2	DCMV27H2SNA197	DCMZ27H2SNA197	DCMV27H2SNK126	DCMZ27H2SNK126
DD-24W7	DDMV24H7SNA197	DDMZ24H7SNA197	DDMV24H7SNK126	DDMZ24H7SNK126
DD-36W4	DDMV36H4SNA197	DDMZ36H4SNA197	DDMV36H4SNK126	DDMZ36H4SNK126
DD-43W2	DDMV43H2SNA197	DDMZ43H2SNA197	DDMV43H2SNK126	DDMZ43H2SNK126
DD-47W1	DDMV47H1SNA197	DDMZ47H1SNA197	DDMV47H1SNK126	DDMZ47H1SNK126

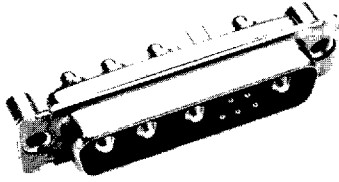
Highlighted part numbers indicate standard product; usually available with shorter lead times.

Dimensions



Shell Size	A ±.015 (0.38)	B ±.010 (0.25)	C ±.005 (0.13)	D ±.010 (0.25)	E ±.015 (0.38)	G Max.	H Max.	K ±.010 (0.25)	M Max.
DE	1.213 (30.81)	.642 (16.31)	.984 (24.99)	.310 (7.87)	.494 (12.55)	.759 (19.28)	.422 (10.72)	.242 (6.15)	.429 (10.90)
DA	1.541 (39.14)	.970 (24.64)	1.312 (33.32)	.310 (7.87)	.494 (12.55)	1.083 (27.51)	.422 (10.72)	.242 (6.15)	.429 (10.90)
DB	2.088 (53.03)	1.510 (38.35)	1.852 (47.04)	.310 (7.87)	.494 (12.55)	1.625 (41.27)	.422 (10.72)	.242 (6.15)	.429 (10.90)
DC	2.729 (69.31)	2.158 (54.81)	2.500 (63.50)	.310 (7.87)	.494 (12.55)	2.272 (57.71)	.422 (10.72)	.242 (6.15)	.429 (10.90)
DD	2.635 (66.93)	2.063 (52.40)	2.406 (61.11)	.422 (10.72)	.605 (15.37)	2.178 (55.32)	.534 (13.25)	.242 (6.15)	.429 (10.90)

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



PCB Hole Patterns – Pages 45-46

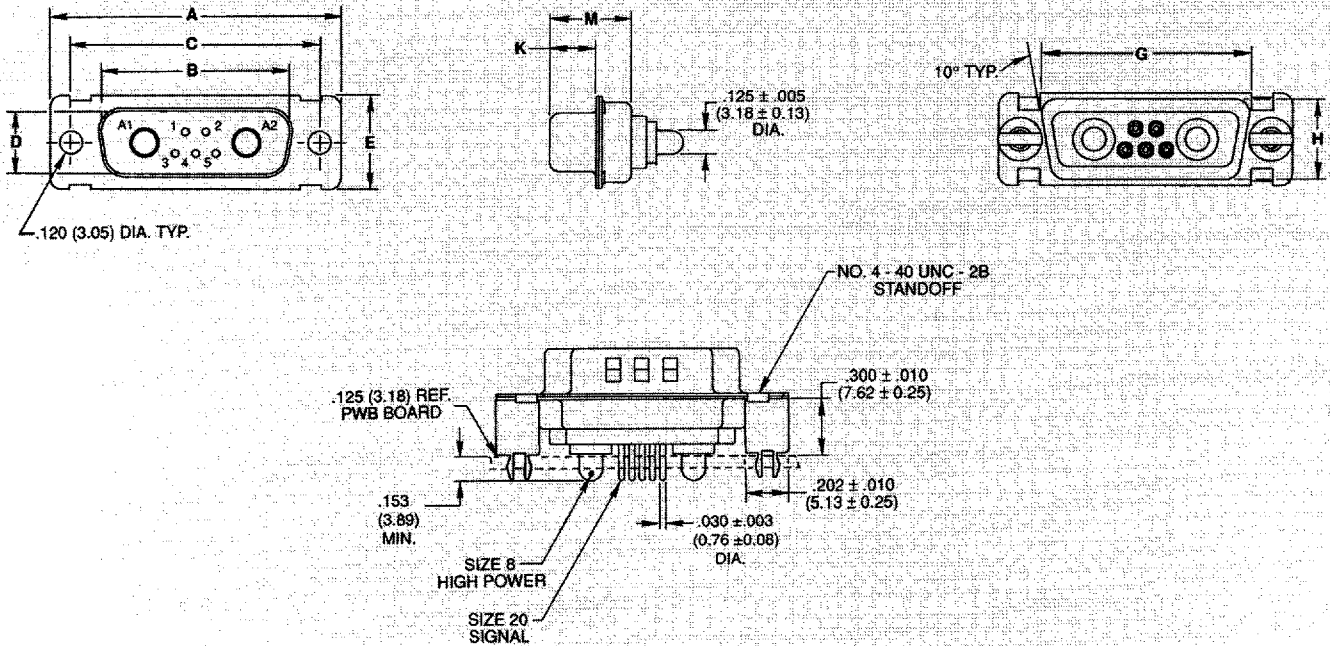
Part numbers come complete with fixed, male, signal and high power contacts.

Tin PC tails – Add -A220.

Contact Finish Integral Boardlock	Gold Over Ni. No	Gold Over Ni. Yes	30µ in. Gold No	30µ in. Gold Yes
DE-5W1	DEM5H1PNK87	DEM25H1PNK87	DEM5H1PNK127	DEM25H1PNK127
DA-7W2	DAMV7H2PNK87	DAMZ7H2PNK87	DAMV7H2PNK127	DAMZ7H2PNK127
DA-11W1	DAMV11H1PNK87	DAMZ11H1PNK87	DAMV11H1PNK127	DAMZ11H1PNK127
DA-3W3	DAMV3H3PNK87	DAMZ3H3PNK87	DAMV3H3PNK127	DAMZ3H3PNK127
DB-5W5	DBMV5H5PNK87	DBMZ5H5PNK87	DBMV5H5PNK127	DBMZ5H5PNK127
DB-9W4	DBMV9H4PNK87	DBMZ9H4PNK87	DBMV9H4PNK127	DBMZ9H4PNK127
DB-13W3	DBMV13H3PNK87	DBMZ13H3PNK87	DBMV13H3PNK127	DBMZ13H3PNK127
DB-17W2	DBMV17H2PNK87	DBMZ17H2PNK87	DBMV17H2PNK127	DBMZ17H2PNK127
DB-21W1	DBMV21H1PNK87	DBMZ21H1PNK87	DBMV21H1PNK127	DBMZ21H1PNK127
DC-8W8	DCMV8H8PNK87	DCMZ8H8PNK87	DCMV8H8PNK127	DCMZ8H8PNK127
DC-13W6	DCMV13H6PNK87	DCMZ13H6PNK87	DCMV13H6PNK127	DCMZ13H6PNK127
DC-17W5	DCMV17H5PNK87	DCMZ17H5PNK87	DCMV17H5PNK127	DCMZ17H5PNK127
DC-21WA4	DCMV21HA4PNK87	DCMZ21HA4PNK87	DCMV21HA4PNK127	DCMZ21HA4PNK127
DC-25W3	DCMV25H3PNK87	DCMZ25H3PNK87	DCMV25H3PNK127	DCMZ25H3PNK127
DC-27W2	DCMV27H2PNK87	DCMZ27H2PNK87	DCMV27H2PNK127	DCMZ27H2PNK127
DD-24W7	DDMV24H7PNK87	DDMZ24H7PNK87	DDMV24H7PNK127	DDMZ24H7PNK127
DD-36W4	DDMV36H4PNK87	DDMZ36H4PNK87	DDMV36H4PNK127	DDMZ36H4PNK127
DD-43W2	DDMV43H2PNK87	DDMZ43H2PNK87	DDMV43H2PNK127	DDMZ43H2PNK127
DD-47W1	DDMV43H1PNK87	DDMZ47H1PNK87	DDMV43H1PNK127	DDMZ43H1PNK127

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

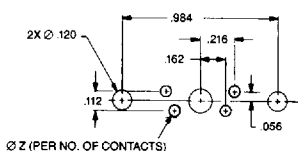
Dimensions



Shell Size	A ±.015 (0.38)	B ±.010 (0.25)	C ±.005 (0.13)	D ±.010 (0.25)	E ±.015 (0.38)	G Max.	H Max.	K ±.010 (0.25)	M Max.
DE	1.213 (30.81)	.667 (16.94)	.984 (24.99)	.329 (8.36)	.494 (12.55)	.759 (19.28)	.422 (10.72)	.236 (5.99)	.422 (10.72)
DA	1.541 (39.14)	.995 (25.27)	1.312 (33.32)	.329 (8.36)	.494 (12.55)	1.083 (27.51)	.422 (10.72)	.236 (5.99)	.422 (10.72)
DB	2.088 (53.03)	1.535 (38.95)	1.852 (47.04)	.329 (8.36)	.494 (12.55)	1.625 (41.27)	.422 (10.72)	.236 (5.99)	.426 (10.82)
DC	2.729 (69.31)	2.183 (55.49)	2.500 (63.50)	.329 (8.36)	.494 (12.55)	2.272 (57.71)	.422 (10.72)	.236 (5.99)	.426 (10.82)
DD	2.635 (66.93)	2.080 (52.83)	2.406 (61.11)	.441 (11.20)	.605 (15.37)	2.178 (55.32)	.534 (13.56)	.236 (5.99)	.426 (10.82)

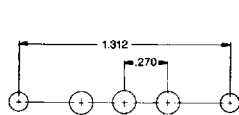
Straight Printed Circuit Board Hole Patterns

Face View, Pin Insert
(for receptacle, hole pattern is a mirror image)

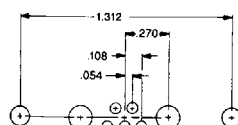


Shell Size
Contact Arrangement
No. of Contacts
No. of Power Contacts

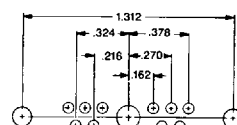
E
5W1
4 #20
1



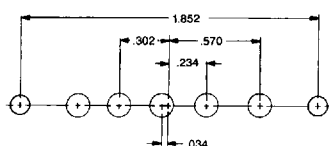
A
3W3
0
3



A
7W2
5 #20
2

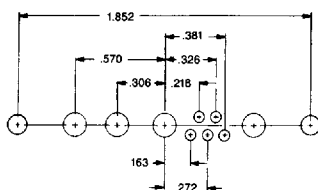


A
11W1
10 #20
1

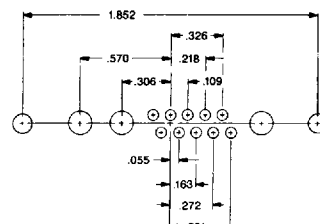


Shell Size
Contact Arrangement
No. of Contacts
No. of Power Contacts

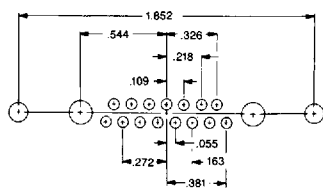
B
5W5
0
5



B
9W4
5 #20
4

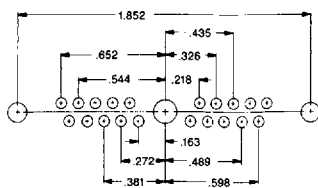


B
13W3
10 #20
3

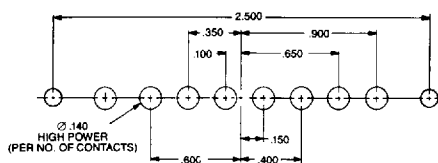


Shell Size
Contact Arrangement
No. of Contacts
No. of Power Contacts

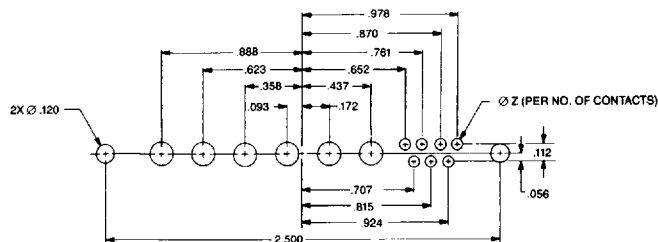
B
17W2
15 #20
2



B
21W1
20 #20
1

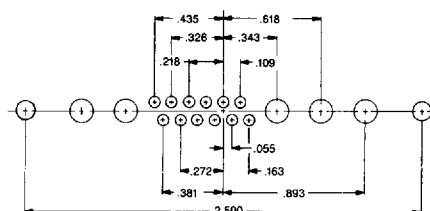


C
8W8
0
8

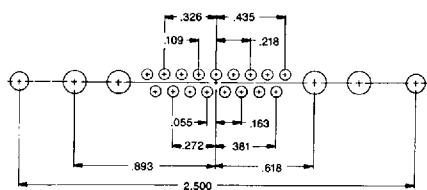


Shell Size
Contact Arrangement
No. of Contacts
No. of Power Contacts

C
13W6
7 #20
6

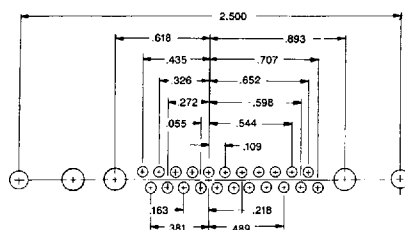


C
17W5
12 #20
5



Shell Size
Contact Arrangement
No. of Contacts
No. of Power Contacts

C
21WA4
17 #20
4

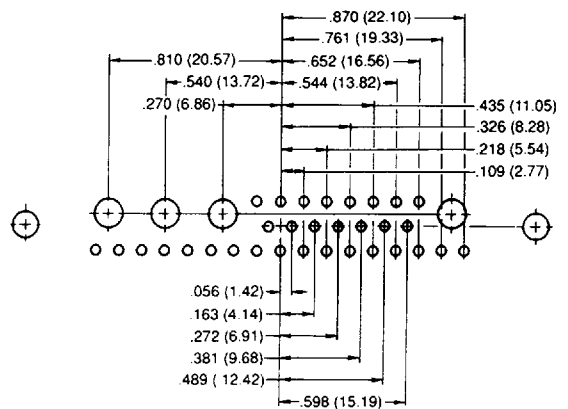
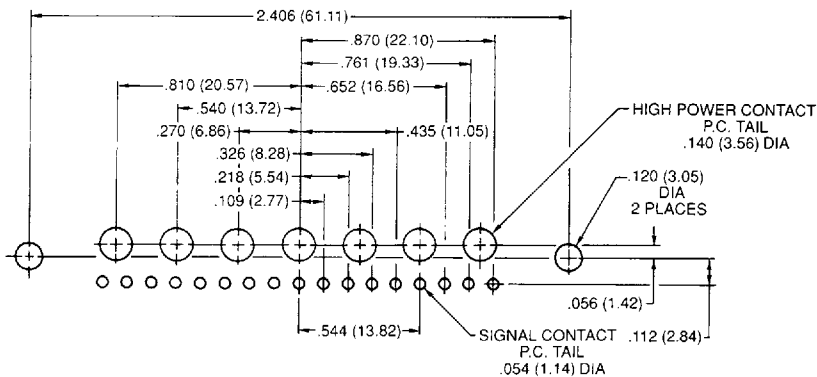


C
25W3
22 #20
3

Size No. 20 Contacts PC Tail Diameter	Z Dia.
.030 (0.76)	.045 (1.14)

Straight Printed Circuit Board Hole Patterns

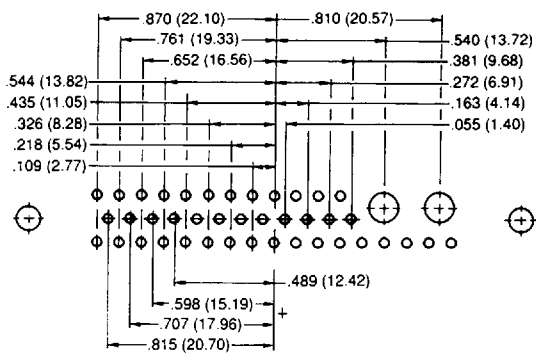
Face view, pin insert
(for receptacle, hole pattern is a mirror image)



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

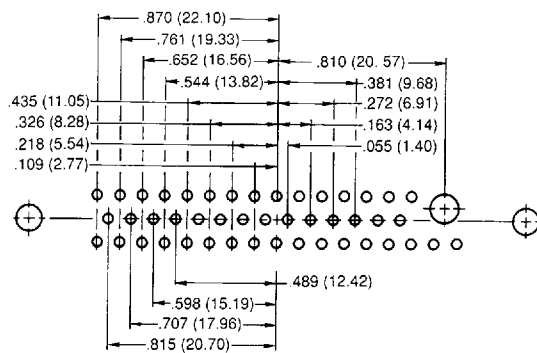
D
24W7
17 #20
7

D
36W4
32 #20
4



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

D
43W2
41 #20
2



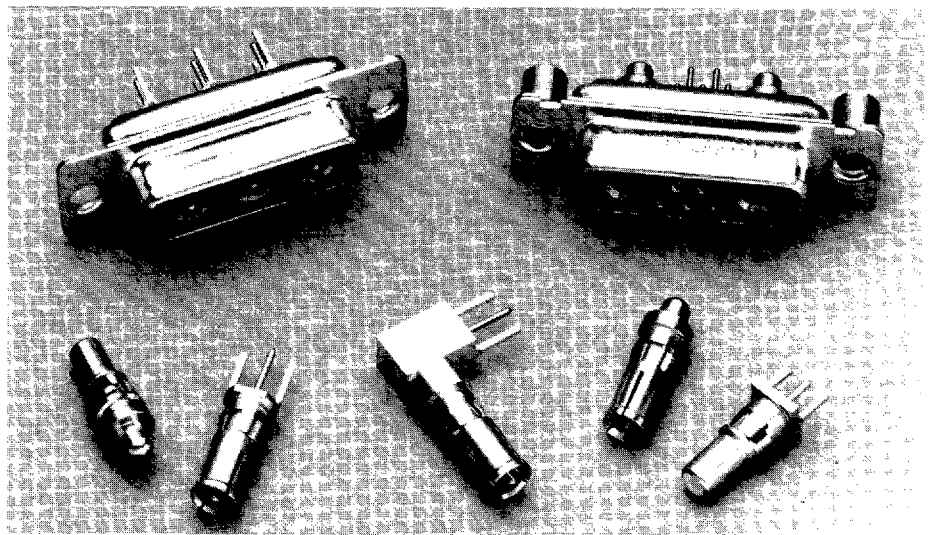
D
47W1
46 #20
1

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 Subminiatures available.

We offer the ability to integrate signal and 50 and 75 ohm 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	Tin
Insulator	Thermoplastic or Diallyl Phthalate, UL 94V-0 rated.	None
Size 20 contacts when applicable	Copper alloy	Gold over nickel or 30μ inches, gold over nickel.
Standoff	Copper alloy	Electrodeposited Tin/Lead over Copper
Bracket	Steel	
Rivnut	Steel or Copper alloy	Electrodeposited Tin/Lead over Copper.
Eyelet	Copper alloy	

Coaxial Assembly

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

U.L. File Number: E8572

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	75 or 50 ohm
Coax VSWR	Less than 1.3-1.0 up to 500 megahertz
Coax Insertion Loss	.1 db loss at 500 megahertz.

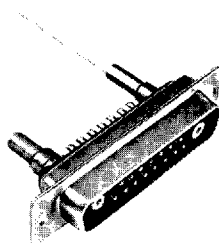
Dielectric Withstanding Voltage

Type of Contact	Altitude (feet/m)								
	Sea Level		20,000/6096		50,000/15240		70,000/1336		
	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, 75 ohm

Coaxial Housing With Solder Cup Signal Contacts



- Cable combinations supplied with preloaded solder signal contacts
- 50 ohm coax contacts supplied separately (see pages 27-28)
- 75 ohm coax contacts supplied separately (see page 23)

Clinch Nut and Float Mount Options Available:

Add: E = 4-40 Clinch Nut

Y = Float Mounting

Example: DAME3W3PK87

DAMY3W3PK87

Mounting Method Detail – Page 6.

Layout	Standard Socket	30 μ in. Gold Socket	Standard Pin	30 μ in. Gold Pin
DE-5W1	DEM5W1SA197	DEM5W1SK126	DEM5W1PK87	DEM5W1PK127
DA-7W2	DAM7W2SA197	DAM7W2SK126	DAM7W2PK87	DAM7W2PK127
DA-11W1	DAM11W1SA197	DAM11W1SK126	DAM11W1PK87	DAM11W1PK127
DA-3W3	DAM3W3SA197	DAM3W3SK126	DAM3W3PK87	DAM3W3PK127
DB-5W5	DBM5W5SA197	DBM5W5SK126	DBM5W5PK87	DBM5W5PK127
DB-9W4	DBM9W4SA197	DBM9W4SK126	DBM9W4PK87	DBM9W4PK127
DB-13W3	DBM13W3SA197	DBM13W3SK126	DBM13W3PK87	DBM13W3PK127
DB-17W2	DBM17W2SA197	DBM17W2SK126	DBM17W2PK87	DBM17W2PK127
DB-21W1	DBM21W1SA197	DBM21W1SK126	DBM21W1PK87	DBM21W1PK127
DC-8W8	DCM8W8SA197	DCM8W8SK126	DCM8W8PK87	DCM8W8PK127
DC-13W6	DCM13W6SA197	DCM13W6SK126	DCM13W6PK87	DCM13W6PK127
DC-17W5	DCM17W5SA197	DCM17W5SK126	DCM17W5PK87	DCM17W5PK127
DC-21WA4	DCM21WA4SA197	DCM21WA4SK126	DCM21WA4PK87	DCM21WA4PK127
DC-25W3	DCM25W3SA197	DCM25W3SK126	DCM25W3PK87	DCM25W3PK127
DC-27W2	DCM27W2SA197	DCM27W2SK126	DCM27W2PK87	DCM27W2PK127
DD-24W7	DDM24W7SA197	DDM24W7SK126	DDM24W7PK87	DDM24W7PK127
DD-36W4	DDM36W4SA197	DDM36W4SK126	DDM36W4PK87	DDM36W4PK127
DD-43W2	DDM43W2SA197	DDM43W2SK126	DDM43W2PK87	DDM43W2PK127
DD-47W1	DDM47W1SA197	DDM47W1SK126	DDM47W1PK87	DDM47W1PK127

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

Contact Arrangements

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

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

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