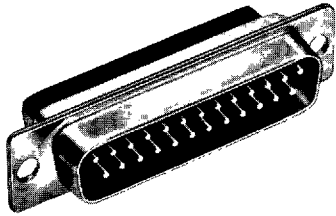
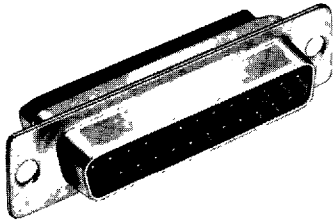


# D-Subminiature Commercial Metal Shell

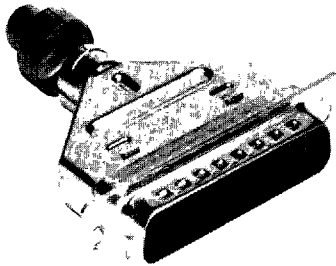
# .109" (2.77mm) Density Insulation Grip/Crimp and Poke D\*A Series



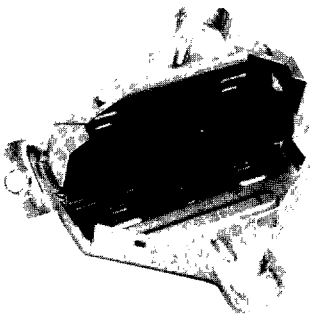
Plug



Socket



Overmoldable Shielding Kit



## Features

- Available in 5 connector sizes: 9, 15, 25, 37, and 50, with insulation grip, crimp and poke terminations, both plug and socket styles
- Variety of shell styles available
- Grounding indents available on plugs
- Available in alternate shell construction for compatibility with plastic backshell not manufactured by Cinch
- Intermateable with all D-Subminiature connectors of comparable pin count and complying dimensionally with MIL-C-24308
- Overmold kit available with other mounting methods not shown.
- UL Recognized file no: E19071

## Performance Data

### Materials

**Insulation Material:** UL 94V-0 rated molded glass-filled nylon, black

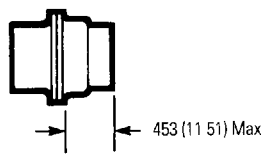
**Contact Material:** Phosphor bronze

**Contact Plating:** Gold flash over nickel on entire contact or gold flash over nickel on entire contact with additional 30 µinch gold on mating end

**Shell Material:** Steel

**Shell Plating:** Zinc with yellow chromate coating or bright tin

## Dimensions



For standard shell dimensions and panel cutouts see pages 5 and 6

## Electrical Characteristics

**Withstanding Voltage:** 1000 VAC rms (@ sea level)

**Current Rating:** 5 Amps

**Contact Resistance:** 2.7 Milliohms maximum

**Insulation Resistance:** 5000 Megohms minimum

## Mechanical Characteristics

**Individual Contact Insertion and Separation Force:** 0.7 oz. (20g) minimum, 12 oz. (341g) maximum

## Environmental Characteristics

**Shock:** Exceeds test requirements of MIL-STD-202D, Method 213, Condition G

**Operating Temperature:** - 65°C to + 125°C

**Vibration:** Exceeds requirements of MIL-STD-202D, Method 204, Condition D

**Humidity:** Exceeds requirements of MIL-STD-202D, Method 106

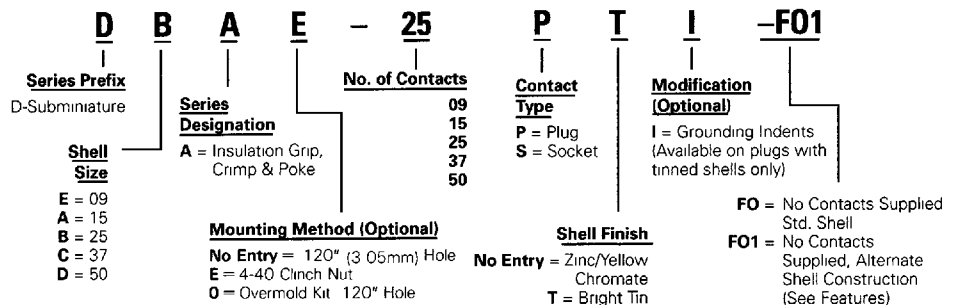
## Accessories

For metal shell D-Subminiature Connector accessories see pages 34 through 45.

## Tools

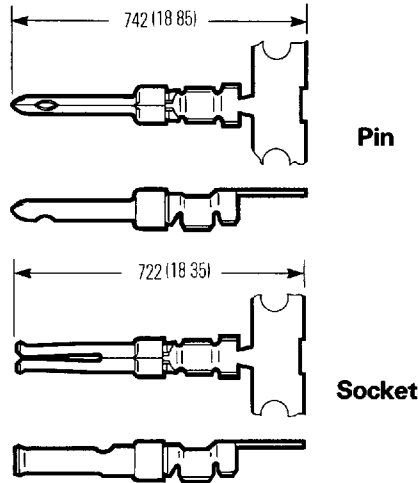
See pages 46 through 49 for termination tools.

## Ordering Information



**Dimensions**

**Insulation Grip, Crimp And Poke  
Contacts**



**Ordering Information**

Type	Gold Flash		Gold Flash	
	AWG 20-24		AWG 26-30	
	15000 Per Reel	300 Per Reel	15000 Per Reel	300 Per Reel
	Part No.	Part No.	Part No.	Part No.
Pin	DGP-15-1	DGP-3-1	DGP-15-3	DGP-3-3
Socket	DGS-15-1	DGS-3-1	DGS-15-3	DGS-3-3

Type	30 μinches Gold		30 μinches Gold	
	AWG 20-24		AWG 26-30	
	15000 Per Reel	300 Per Reel	15000 Per Reel	300 Per Reel
	Part No.	Part No.	Part No.	Part No.
Pin	DGP-15-2	DGP-3-2	DGP-15-4	DGP-3-4
Socket	DGS-15-2	DGS-3-2	DGS-15-4	DGS-3-4

Insulation grip, crimp and poke contacts are available in reels for use with semi-automatic crimping machines. They are available with gold plating or gold flash. These contacts will accommodate wire sizes from #20 through #24 AWG or from #26 through #30 AWG.

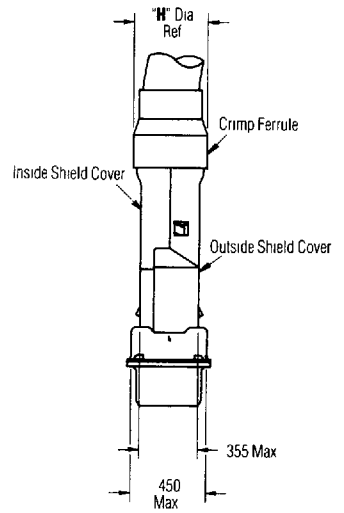
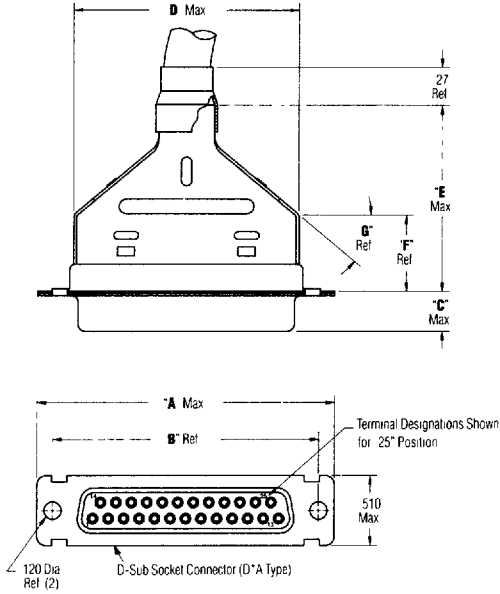
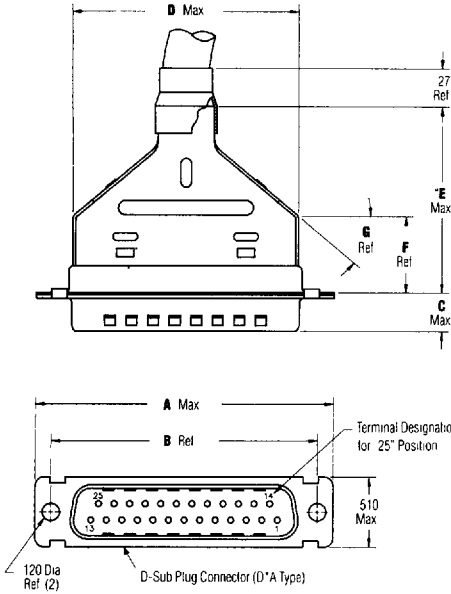
# D-Subminiature Commercial Metal Shell

# .109" (2.77mm) Density Insulation Grip/Crimp and Poke D\*A Series

## Overmoldable Shielding Kit

### Plug

### Socket



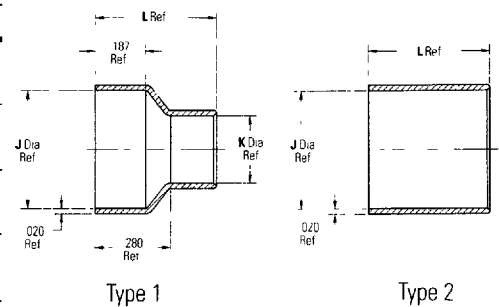
## Dimensions—Shielding Kits

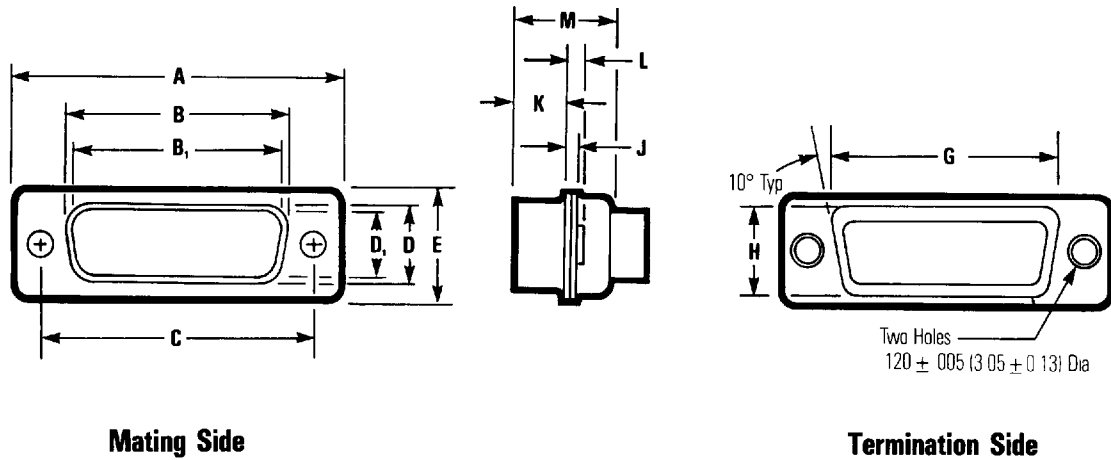
No. of Contacts	Part Number	A		B		C		D		E		F		G		H	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	Deg.	in	mm	
9 Plug	234-09-24-131	1.228	31.19	0.984	24.99	0.270	6.86	0.705	17.91	1.320	33.53	0.520	13.21	75°	0.440	11.18	
9 Socket	233-09-22-131	1.228	31.19	0.984	24.99	0.285	7.24	0.705	17.91	1.320	33.53	0.520	13.21	75°	0.440	11.18	
15 Plug	234-15-24-131	1.556	39.52	1.312	33.33	0.270	6.86	1.050	26.67	1.320	33.53	0.520	13.21	58°	0.440	11.18	
15 Socket	233-15-22-131	1.556	39.52	1.312	33.33	0.285	7.24	1.050	26.67	1.320	33.53	0.520	13.21	58°	0.440	11.18	
25 Plug	234-25-24-131	2.103	53.42	1.852	47.04	0.275	6.99	1.590	40.39	1.320	33.53	0.520	13.21	40°	0.440	11.18	
25 Socket	233-25-22-131	2.103	53.42	1.852	47.04	0.285	7.24	1.590	40.39	1.320	33.53	0.520	13.21	40°	0.440	11.18	
37 Plug	234-37-24-131	2.744	69.70	2.500	63.50	0.275	6.99	2.240	56.90	1.620	41.15	0.750	19.05	32°	0.520	13.21	
37 Socket	233-37-22-131	2.744	69.70	2.500	63.50	0.285	7.24	2.240	56.90	1.620	41.15	0.750	19.05	32°	0.520	13.21	

## Dimensions—Crimp Ferrule

## Crimp Ferrule

Part Number	Type	J		K		L		Crimp Die Part No.
		in	mm	in	mm	in	mm	
462-44-22-451	1	.437	11.10	.200	5.08	.450	11.43	598-98-97-607
462-44-22-442	1	.437	11.10	.235	5.97	.450	11.43	598-98-97-600
462-44-22-443	1	.437	11.10	.250	6.35	.450	11.43	598-98-97-601
462-44-22-444	1	.437	11.10	.325	8.26	.450	11.43	598-98-97-602
462-44-22-445	1	.437	11.10	.350	8.89	.450	11.43	598-98-97-603
462-44-22-446	1	.437	11.10	.375	9.53	.450	11.43	598-98-97-604
462-44-22-447	2	.437	11.10	.437	11.10	.450	11.43	598-98-97-605
462-44-22-450	2	.460	11.68	.460	11.68	.450	11.43	598-98-97-606





**Dimensions**

Shell Size	Connector Type	A ± .015" (0.38mm)		B ± .010" (0.25mm)		B <sub>1</sub> ± .005" (0.13mm)		C ± .005" (0.13mm)		D ± .010" (0.25mm)		D <sub>1</sub> ± .010" (0.25mm)		E ± .015" (0.38mm)	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
E	Plug	1.213	30.81	—	—	.666	16.90	.0984	24.99	—	8.40	.329	—	.494	12.55
	Socket	1.213	30.81	.640	16.26	—	—	.0984	24.99	.308	—	—	.782	.494	12.55
A	Plug	1.541	39.14	—	—	.994	25.30	1.312	33.32	—	8.40	.329	—	.494	12.55
	Socket	1.541	39.14	.968	24.59	—	—	1.312	33.32	.308	—	—	.782	.494	12.55
B	Plug	2.088	53.04	—	—	1.534	39.00	1.852	47.04	—	8.40	.329	—	.494	12.55
	Socket	2.088	53.04	1.508	38.30	—	—	1.852	47.04	.308	—	—	.782	.494	12.55
C	Plug	2.729	69.32	—	—	2.182	55.40	2.500	63.50	—	8.40	.329	—	.494	12.55
	Socket	2.729	69.32	2.156	54.76	—	—	2.500	63.50	.308	—	—	.782	.494	12.55
D	Plug	2.635	66.93	—	—	2.079	52.80	2.406	61.11	—	11.07	.436	—	.605	15.37
	Socket	2.635	66.93	2.062	52.34	—	—	2.406	61.11	.420	—	—	10.67	.605	15.37

Shell Size	Connector Type	G ± .010" (0.25mm)		H ± .010" (0.25mm)		J ± .010" (0.25mm)		K ± .010" (0.25mm)		L ± .010" (0.25mm)		M ± .010" (0.25mm)	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
E	Plug	.759	19.28	.422	10.72	.030	0.76	.236	5.99	.045	1.14	.422	10.72
	Socket	.759	19.28	.422	10.72	.030	0.76	.243	6.17	.045	1.14	.429	10.92
A	Plug	1.083	27.51	.422	10.72	.030	0.76	.236	5.99	.045	1.14	.422	10.72
	Socket	1.083	27.51	.422	10.72	.030	0.76	.243	6.17	.045	1.14	.429	10.92
B	Plug	1.625	41.27	.422	10.72	.039	0.99	.231	5.87	.060	1.52	.426	10.82
	Socket	1.625	41.27	.422	10.72	.030	0.76	.243	6.17	.045	1.14	.429	10.92
C	Plug	2.272	57.71	.422	10.72	.039	0.99	.231	5.87	.060	1.52	.426	10.82
	Socket	2.272	57.71	.422	10.72	.030	0.76	.243	6.17	.045	1.14	.429	10.92
D	Plug	2.178	55.32	.534	13.56	.039	0.99	.231	5.87	.060	1.52	.426	10.82
	Socket	2.178	55.32	.534	13.56	.030	0.76	.243	6.17	.045	1.14	.429	10.92

B and D are outside dimensions for socket. B<sub>1</sub> and D<sub>1</sub> are inside dimensions for plug