

Miniature Ribbon Commercial Metal Shell and All Plastic

.085" (2.16mm) Density
Wire Wrap

CINCH

Features

Plastic Shell

- 1.35" (34.92mm) long wire wrap tails
- Available with Insta-Latch latching
- Available in socket style only
- Contact positions: 14, 24, 36, and 50, and 64

Metal Shell

- Wire wrap terminations
- Available in plug and socket styles
- Contact positions: 14, 24, 36, and 50
- Metal shell provides grounding and shielding capability

Metal and Plastic Shell

- Designed for cable-to-panel applications
- Mates with industry compatible connectors
- UL Recognized-file E19071
- CSA-LR31996-7

Performance Data

Materials

Insulation Material:

Metal Shell: Dialyl phthalate type MDG per MIL-M14, blue, UL94V-0

Plastic Shell: Dialyl phthalate type MDG per MIL-M14, gray, UL94V-0

Contact Material: Copper alloy

Contact Plating: 20 μinch selective gold over copper

Optional Plating: 30 μinch gold over 50 μinch nickel

Shell Material: Steel (Metal Shell only)

Shell Plating: Zinc (Metal Shell only)

Electrical Characteristics

Withstanding Voltage: Per EIA Standard RS364, TP20

Current Rating: 5 Amps

Contact Resistance: Per EIA Standard RS364, TP6

Low Level Contact Resistance: Per EIA Standard RS364, TP23

Insulation Resistance: Per EIA Standard RS364, TP21

Initial: 5000 Megohms minimum

After Moisture: 1000 Megohms minimum

Mechanical Characteristics

Mating/Unmating Force:

No. of Contacts	Maximum Mating Force With Latches		Minimum Unmating Force Without Latches	
	Lbs	Kg	Lbs	Kg
14	12	5.40	2	0.90
24	17	7.72	4	1.82
36	23	10.44	6	2.72
50	32	14.53	7	3.18
64*	37	16.80	8	3.63

*All plastic type only.

Environmental Characteristics

Shock: Per EIA Standard RS364, TP27, Condition A (50g peak)

Vibration: Per EIA Standard RS364, TP28, Condition A

Moisture Resistance: Per EIA Standard RS364, TP31, Test Condition B with following details and exceptions:

a) Step 7b—not required; b) no drip loops in the wires

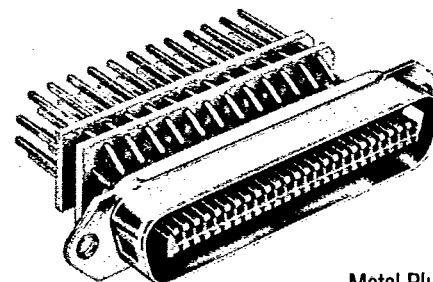
Impact Test: Per EIA Standard RS364, TP42

Operating Temperature: -40°C to +105°C

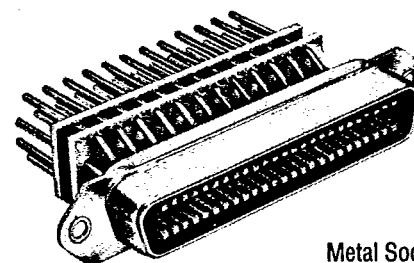
Thermal Shock: Per EIA Standard RS364, TP32

Accessories

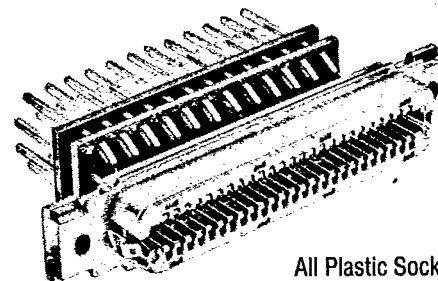
The only accessories needed for all plastic or metal shell, wire wrap miniature ribbon connectors are dust covers. See page 35 for dust cover ordering information.



Metal Plug



Metal Socket

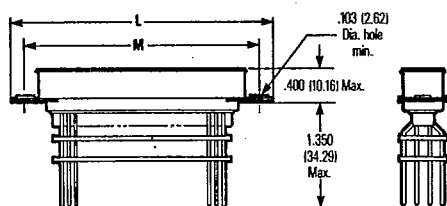


All Plastic Socket

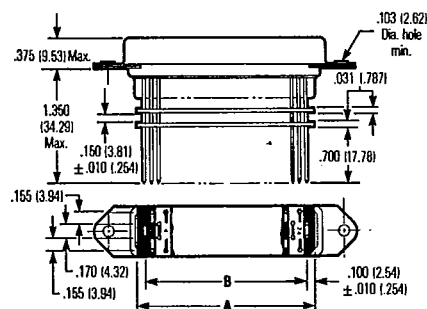
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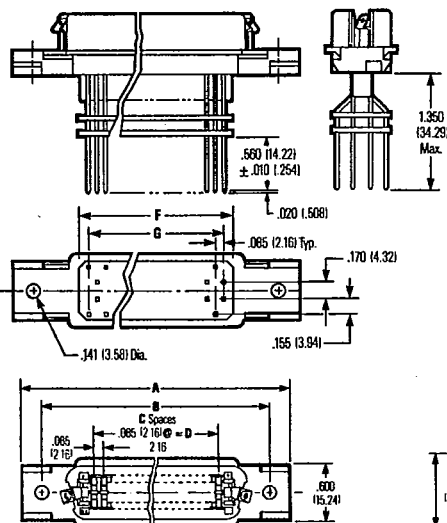
Metal Plug



Metal Socket



All Plastic Socket



Dimensions-Metal Shell

No. of Contacts	A		B		L		M	
	in	mm	in	mm	in	mm	in	mm
14	.710	18.03	.510	12.95	1.750	44.45	1.417	35.99
24	1.135	28.83	.935	23.75	2.175	55.25	1.842	46.79
36	1.645	41.78	1.445	36.70	2.665	67.69	2.352	59.74
50	2.240	56.90	2.040	51.82	3.260	82.80	2.947	74.85

Ordering Information-Metal Shell

Plug and Socket With .103" (2.62mm) dia. Through Hole

No. of Contacts	.025" (.64mm) Square 1.350" (34.29mm) Long Wire Wrap Tail		.045" (1.14mm) Square 1.350" (34.29mm) Long Wire Wrap Tail		.045" (1.14mm) Square .850" (21.59mm) Long Wire Wrap Tail	
	Part No.		Part No.		Part No.	
14 Plug	57-10140-WW1		57-10140-WW2		57-10140-WW3	
14 Socket	57-20140-WW1		57-20140-WW2		57-20140-WW3	
24 Plug	57-10240-WW1		57-10240-WW2		57-10240-WW3	
24 Socket	57-20240-WW1		57-20240-WW2		57-20240-WW3	
36 Plug	57-10360-WW1		57-10360-WW2		57-10360-WW3	
36 Socket	57-20360-WW1		57-20360-WW2		57-20360-WW3	
50 Plug	57-10500-WW1		57-10500-WW2		57-10500-WW3	
50 Socket	57-20500-WW1		57-20500-WW2		57-20500-WW3	

Socket With Bail Latches

No. of Contacts	.025" (.64mm) Square 1.350" (34.29mm) Long Wire Wrap Tail	
	Part No.	
14 Socket	57-20140-WW4	
24 Socket	57-20240-WW4	
36 Socket	57-20360-WW4	
50 Socket	57-20500-WW4	

Dimensions-Plastic Shell

No. of Con- tacts	A		B		C	D	F		G		K		
	in	mm	in	mm		in	mm	in	mm	in	mm	in	mm
14	1.745	44.32	1.417	35.99	6	.510	12.95	.710	18.03	.510	12.95	1.060	26.92
24	2.170	55.12	1.842	46.79	11	.935	23.75	1.135	28.83	.935	23.75	1.485	37.72
36	2.680	68.07	2.352	59.74	17	1.445	36.70	1.645	41.78	1.445	36.70	1.995	50.67
50	3.275	83.19	2.947	74.85	24	2.040	51.82	2.240	56.89	2.040	51.82	2.590	65.79
64	3.875	98.43	3.542	89.97	31	2.635	66.93	2.835	72.01	2.635	66.93	3.185	80.90

Ordering Information-Plastic Shell

No. of Contacts	Socket With .025" (.635mm) Square Wire Wrap Tails		Socket with .045" (1.143mm) Square Wire Wrap Tails	
	Part No.		Part No.	
14	97-22140-WW1		97-22140-WW2	
24	97-22240-WW1		97-22240-WW2	
36	97-22360-WW1		97-22360-WW2	
50	97-22500-WW1		97-22500-WW2	
64	97-22640-WW1		97-22640-WW2	