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## Solder Cup - Series 1 - High Reliability - Metal Shell



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### Features

Solder cup version for wire.

- Commercial version of M24308 military connectors with tin-plated or zinc-plated shell and 30µin. gold plating.
- Monoblock green diallyl phthalate insulator for improved electrical performance.
- Machined contacts for precision performance.
- Offered in 9, 15, 25, 37, and 50 position plugs and sockets.
- Offered with .120 mounting holes & 4-40 clinch nuts.
- RoHS version is available
- Approvals:
  - UL Recognized - Files E170218 (UL1977) and E130965 (UL1863).
  - CSA Approved - File LR31996.

### Materials

- Insulator Material: Glass-filled diallyl phthalate (green) UL 94V-0 rated
- Connector Shell: Steel with zinc plating and yellow chromate finish, tin plating (grounding indents on plug, RoHS is zinc plating with clear chromate)
- Contact Material: Plug - Brass (machined), Socket - Phosphor bronze (machined)
- Contact Plating: 30µin. gold over nickel
- 4-40 Clinch Nut: Steel with cadmium plating and yellow chromate finish.

### Mechanical

- Individual Contact Insertion and Separation Force (minimum/maximum): 0.7 oz./12 oz.

### Durability

- 500 mating cycles

## Electrical

- Withstanding Voltage: Minimum 1250V RMS @ sea level
- Current Rating: 5 Amps
- Contact Resistance: 2.7 milliohms maximum
- Insulation Resistance: 5000 megohms maximum (initial); 1000 megohms (minimum) after environmental testing

## Environmental

- Operating Temperature: -65°C to + 125°C
- Shock: 50G peak per MIL-STD-202, Method 213, Condition G
- Vibration: 12 cycles in three perpendicular directions @ 10-2000Hz, per MIL-STD-202, Method 204, Condition D
- Moisture Resistance: 90-95% relative humidity @ 40°C for 96 hours per MIL-STD-202, Method 103

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## Parts

### Solder Cup Plugs

	Zinc-Plated Shell with Yellow Chromate Finish	Tin-Plated Shell with Grounding Indents
Positions	Mounting Hole	4-40 Clinch Nut
9	<a href="#">DEM-9P</a>	<a href="#">DEME-9P</a>
15	<a href="#">DAM-15P</a>	<a href="#">DAME-15P</a>
25	<a href="#">DBM-25P</a>	<a href="#">DBME-25P</a>
37	<a href="#">DCM-37P</a>	<a href="#">DCME-37P</a>
50	<a href="#">DDM-50P</a>	<a href="#">DDME-50P</a>

### Solder Cup Sockets

	Zinc-Plated Shell with Yellow Chromate Finish	Tin-Plated Shell
Positions	Mounting Hole	4-40 Clinch Nut
9	<a href="#">DEM-9S</a>	<a href="#">DEME-9S</a>
15	<a href="#">DAM-15S</a>	<a href="#">DAME-15S</a>
25	<a href="#">DBM-25S</a>	<a href="#">DBME-25S</a>
37	<a href="#">DCM-37S</a>	<a href="#">DCME-37S</a>
50	<a href="#">DDM-50S</a>	<a href="#">DDME-50S</a>

### RoHS Solder Cup Plugs

	Zinc-Plated Shell / Clear Chromate Finish
Positions	Mounting Hole
9	<a href="#">DEMH-9P</a>
15	<a href="#">DAMH-15P</a>
25	<a href="#">DBMH-25P</a>
37	<a href="#">DCMH-37P</a>

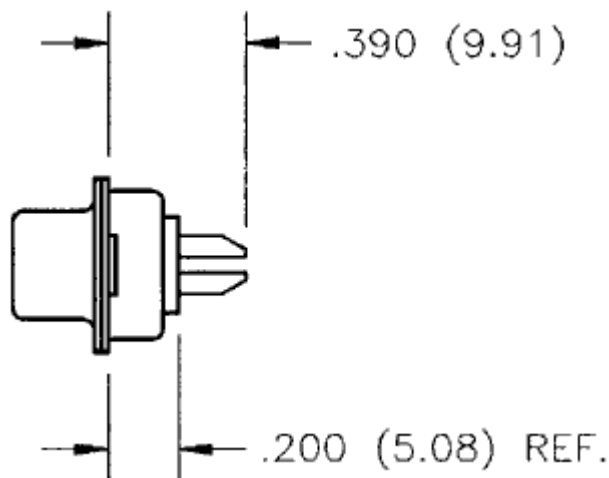
	Zinc-Plated Shell / Clear Chromate Finish	
50	<a href="#">DDMH-50P</a>	<a href="#">DDMEH-50P</a>

## RoHS Solder Cup Sockets

	Zinc-Plated Shell/Clear Chromate Finish	
Positions	Mounting	4-40 Clinch Nut
9	<a href="#">DEMH-9S</a>	<a href="#">DEMEH-9S</a>
15	<a href="#">DAMH-15S</a>	<a href="#">DAMEH-15S</a>
25	<a href="#">DBMH-25S</a>	<a href="#">DBMEH-25S</a>
37	<a href="#">DCMH-37S</a>	<a href="#">DCMEH-37S</a>
50	<a href="#">DDMH-50S</a>	<a href="#">DDMEH-50S</a>

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## Dimensions



Will accommodate up to 20 AWG wire.

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