

## Crimp & Poke Series 3 High Reliability Metal Shell

[Features](#) <sup>[1]</sup> | [Additional Information](#) <sup>[2]</sup> | [Part Numbers](#) <sup>[3]</sup>

### Features

High-reliability in a commercial grade connector.

- Monoblock diallyl phthalate insulator for improved electrical performance.
- Offered in 9, 15, 25, 37, and 50 position plugs and sockets.
- Offered with .120 mounting holes & 4-40 clinch nuts.
- Commercial version of M24308 Military connectors with tin-plated or zinc-plated shell and 30 $\mu$ in. gold contact plating.
- Select RoHS versions available
- Screw Machine Crimp and Poke contacts available as follows:
  - Note that all contacts are packed loose.
  - Plating options: 30 $\mu$ in. gold.
  - Can be included with the connector or purchased separately (FO part numbers).

### Materials

- Insulator Material: Glass fiber-filled diallyl phthalate (green), UL 94V-0
- Connector Shell: Steel with zinc plating and yellow chromate finish RoHS shell – zinc plated with clear chromate
- Contact Material: Plug – Brass (machined), Socket – Phosphor bronze (machined)
- Contact Plating: 30 $\mu$ in. 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

[back to top](#) <sup>[4]</sup>

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### Additional Information

#### Tooling Information

- Contact Insertion / Extraction Tool: #CIET-20-HD (Military #M81969/39-01).
- Wire termination hand tool: #M22520/2-01.
- Positioner for machine contacts for hand tool #M22520/2-08 (locates contact in the correct position)

[back to top](#) <sup>[4]</sup>

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### Part Numbers

#### Ordering Information

**Crimp and Poke – Plugs**  
**Zinc-Plated Shell with Yellow Chromate Finish**

	<b>Mounting Holes</b>	<b>4-40 Clinch Nuts</b>		
<b>Positions</b>	<b>30<math>\mu</math> in. Gold Contacts</b>	<b>Without Contacts</b>	<b>30<math>\mu</math> in. Gold Contacts</b>	<b>Without Contacts</b>
9	DEMA-9P [5]	DEMA-9P-FO [5]	DEMAE-9P [5]	DEMAE-9P-FO [5]
15	DAMA-15P [5]	DAMA-15P-FO [5]	DAMAE-15P [5]	DAMAE-15P-FO [5]
25	DBMA-25P [5]	DBMA-25P-FO [5]	DBMAE-25P	DBMAE-25P-FO [5]
37	DCMA-37P [5]	DCMA-37P-FO [5]	DCMAE-37P [5]	DCMAE-37P-FO [5]
50	DDMA-50P [5]	DDMA-50P-FO [5]	DDMAE-50P [5]	DDMAE-50P-FO [5]

**Ordering Information****Crimp and Poke – Plugs****Tin-Plated Shells with Grounding Indents**

	<b>Mounting Holes</b>	<b>4-40 Clinch Nuts</b>		
<b>Positions</b>	<b>30<math>\mu</math> in. Gold Contacts</b>	<b>Without Contacts</b>	<b>30<math>\mu</math> in. Gold Contacts</b>	<b>Without Contacts</b>
9	DEMA-9PTI [5]	DEMA-9PTI-FO [5]	DEMAE-9PTI [5]	DEMAE-9PTI-FO [5]
15	DAMA-15PTI [5]	DAMA-15PTI-FO [5]	DAMAE-15PTI [5]	DAMAE-15PTI-FO [5]
25	DBMA-25PTI [5]	DBMA-25PTI-FO [5]	DBMAE-25PTI [5]	DBMAE-25PTI-FO [5]
37	DCMA-37PTI [5]	DCMA-37PTI-FO [5]	DCMAE-37PTI [5]	DCMAE-37PTI-FO [5]
50	DDMA-50PTI [5]	DDMA-50PTI-FO [5]	DDMAE-50PTI [5]	DDMAE-50PTI-FO [5]

**Ordering Information****Crimp and Poke – Sockets****Zinc-Plated Shell with Yellow Chromate Finish**

	<b>Mounting Holes</b>	<b>4-40 Clinch Nuts</b>		
<b>Positions</b>	<b>30<math>\mu</math> in. Gold Contacts</b>	<b>Without Contacts</b>	<b>30<math>\mu</math> in. Gold Contacts</b>	<b>Without Contacts</b>
9	DEMA-9S [5]	DEMA-9S-FO [5]	DEMAE-9S [5]	DEMAE-9S-FO [5]
15	DAMA-15S [5]	DAMA-15S-FO [5]	DAMAE-15S [5]	DAMAE-15S-FO [5]
25	DBMA-25S [5]	DBMA-25S-FO [5]	DBMAE-25S [5]	DBMAE-25S-FO [5]
37	DCMA-37S [5]	DCMA-37S-FO [5]	DCMAE-37S [5]	DCMAE-37S-FO [5]
50	DDMA-50S [5]	DDMA-50S-FO [5]	DDMAE-50S [5]	DDMAE-50S-FO [5]

**Ordering Information****Crimp and Poke – Sockets****Tin-Plated Shell**

	<b>Mounting Holes</b>	<b>4-40 Clinch Nuts</b>		
<b>Positions</b>	<b>30<math>\mu</math> in. Gold Contacts</b>	<b>Without Contacts</b>	<b>30<math>\mu</math> in. Gold Contacts</b>	<b>Without Contacts</b>
9	DEMA-9ST [5]	DEMA-9ST-FO [5]	DEMAE-9ST [5]	DEMAE-9ST-FO [5]
15	DAMA-15ST [5]	DAMA-15ST-FO [5]	DAMAE-15ST [5]	DAMAE-15ST-FO [5]
25	DBMA-25ST [5]	DBMA-25ST-FO [5]	DBMAE-25ST [5]	DBMAE-25ST-FO [5]
37	DCMA-37ST [5]	DCMA-37ST-FO [5]	DCMAE-37ST [5]	DCMAE-37ST-FO [5]
50	DDMA-50ST [5]	DDMA-50ST-FO [5]	DDMAE-50ST [5]	DDMAE-50ST-FO [5]

**Contacts****Description**

Pin	M39029/64-369 [5]
Socket	M39029/63-368 [5]

**Ordering Information for RoHS Crimp & Poke Zinc w/Clear Chromate – Plugs**

	<b>Mounting Holes</b>	<b>Drawing</b>	<b>4-40 Clinch Nuts</b>	<b>Drawing</b>
<b>Without</b>	<b>W/ Mt.</b>	<b>Without</b>	<b>Without</b>	<b>w/ 4-40</b>
<b>Positions</b>	<b>Contacts</b>	<b>Holes</b>	<b>Contacts</b>	<b>Clinch Nuts</b>
9	DEMAH-9P-FO [5]	<a href="#">PDF</a> [6]	DEMAEH-9P-FO [5]	<a href="#">pdf</a> [7]
15	DAMAH-15P-FO [5]	<a href="#">pdf</a> [8]	DAMAEH-15P-FO [5]	<a href="#">pdf</a> [9]
25	DBMAH-25P-FO [5]	<a href="#">pdf</a> [10]	DBMAEH-25P-FO [5]	<a href="#">pdf</a> [11]
37	DCMAH-37P-FO [5]	<a href="#">pdf</a> [12]	DCMAEH-37P-FO [5]	<a href="#">pdf</a> [13]
50	DDMAH-50P-FO [5]	<a href="#">pdf</a> [14]	DDMAEH-50P-FO [5]	<a href="#">pdf</a> [15]

**Ordering Information for RoHS Crimp & Poke Zinc w/Clear Chromate – Sockets**

	<b>Mounting Holes</b>	<b>4-40 Clinch Nuts</b>	
<b>Without</b>	<b>Without</b>	<b>Without</b>	<b>Without</b>
<b>Positions</b>	<b>Contacts</b>	<b>Contacts</b>	<b>Contacts</b>
9	DEMAH-9S-FO [5]	DEMAEH-9S-FO [5]	DEMAE-9S-FO [5]

	<b>Mounting Holes</b>	<b>4-40 Clinch Nuts</b>
<b>Positions</b>	<b>Without</b>	<b>Without</b>
	<b>Contacts</b>	<b>Contacts</b>
15	DAMAH-15S-FO <sup>[5]</sup>	DAMAEH-15S-FO <sup>[5]</sup>
25	DBMAH-25S-FO <sup>[5]</sup>	DBMAEH-25S-FO <sup>[5]</sup>
37	DCMAH-37S-FO <sup>[5]</sup>	DCMAEH-37S-FO <sup>[5]</sup>
50	DDMAH-50S-FO <sup>[5]</sup>	DDMAEH-50S-FO <sup>[5]</sup>