

Crimp & Poke Series 3 High Reliability Metal Shell

[Features](#) ^[1] | [Additional Information](#) ^[2] | [Part Numbers](#) ^[3]

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 30µin. 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: 30µin. 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: 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

[back to top](#) ^[4]

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](#) ^[4]

Part Numbers

Ordering Information

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

	Mounting Holes		4-40 Clinch Nuts	
Positions	30μ in. Gold Contacts	Without Contacts	30μ in. Gold Contacts	Without Contacts
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

	Mounting Holes		4-40 Clinch Nuts	
Positions	30μ in. Gold Contacts	Without Contacts	30μ in. Gold Contacts	Without Contacts
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

	Mounting Holes		4-40 Clinch Nuts	
Positions	30μ in. Gold Contacts	Without Contacts	30μ in. Gold Contacts	Without Contacts
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

	Mounting Holes		4-40 Clinch Nuts	
Positions	30μ in. Gold Contacts	Without Contacts	30μ in. Gold Contacts	Without Contacts
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

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

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

	Mounting Holes	4-40 Clinch Nuts
	Without	Without
Positions	Contacts	Contacts
9	DEMAH-9S-FO ^[5]	DEMAEH-9S-FO ^[5]

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