



# UNIVERSAL MATE-N-LOK CONNECTORS

## ROBUST and RELIABLE

Universal MATE-N-LOK connectors utilize a combination of pins and sockets intermixed in the plug and cap housings to achieve excellent electrical performance in a .250 [6.35] pitch design. Rated to 600VAC/VDC and 19A, these offer wire-to-wire, wire-to-panel, and wire-to-board configurations. Housings feature positive polarization, positive locking, and rear cavity identification for easy, error resistant assembly. Contacts are enclosed in the housings and are removable for system flexibility. Universal MATE-N-LOK connectors offer numerous options including circular, flanged, bulkhead, sealed, and colored housings in various materials (including Glow Wire compliant) to offer solutions for many diverse applications.

### APPLICATIONS:

- HVAC systems
- Low power and signal applications
- Lighting
- Industrial machinery
- Industrial controls

### TECHNICAL DOCUMENTS:

- [Product Specification 108-1031 \(Universal MATE-N-LOK Connectors\)](#)
- [Product Specification 108-1053 \(Universal MATE-N-LOK PC Board Headers\)](#)
- [Product Specification 108-1031- 1 \(Splash proof seal, Universal MATE-N-LOK Connectors\)](#)
- [Application Specification 114-1010 \(Universal MATE-N-LOK Contacts\)](#)
- [Instruction Sheet 408-7714 \(Plug, Cap, Headers, Pin, Socket and Accessories\)](#)

### PRODUCT FEATURES

- Contacts are on .250 [6.35] centerline spacing
- Rated to 600VAC/VDC and 19A max. to provide excellent electrical performance
- Available in tin or gold plating
- 2-10 in-line positions
- Offered in wire-to-wire, wire-to-panel, and wire-to-board configurations
- 6, 9, 12, 15 matrix
- Wire-to-wire (1-15 positions)
- Wire-to-board (2-15 positions)
- Housings feature rear cavity identification which may help to prevent errors during assembly

### PERFORMANCE CHARACTERISTICS

- Dielectric Withstanding Voltage - 5k VAC/VDC between adjacent circuits
- Insulation Resistance - 1000 megohms min. initial between adjacent circuits
- Voltage Rating - 600 VAC/VDC
- Contact Insertion Force - 5.0 lb. max. per contact
- Contact Retention - 15 lb. min. per contact
- Durability - 50 cycles, mating and unmating
- Maximum Current - 19A, limited by the max. operating temperature of the housings (125°C for 94V-2 housings / 120°C for 94V-0 housings) including the temperature rise of the contacts (30°C max.). Wire size, connector size, ambient temperature, and printed wiring board conductor size are among the variables that have a direct effect on this max. current-carrying capability for a given connector.

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APPLIANCES /// UNIVERSAL MATE-N-LOK