Mini-Universal MATE-N-LOK Connector System
Mini-Universal MATE-N-LOK Connector System

What is Mini-Universal MATE-N-LOK?
• High-density version of Universal MATE-N-LOK
• .163 [4.14] centerline
• 600 VAC or VDC, 9.5 amps max.
• 30-16 AWG wire range
• Tin or gold contact plating
• 9 lb minimum contact retention
• Wire-to-wire, 1-15 positions
• Wire-to-board (vertical & rt.-angle), 2-14 positions
• UL94V-0 & 94V-2 rated housings available
• Strain relief available
Mini-Universal MATE-N-LOK Connector System

What is Mini-Universal MATE-N-LOK™?

• High-density .163 [4.14] centerline
• Pins and sockets can be intermixed in the same housing
• Keying without loss of a circuit position
• Fully polarized housings Vertical/rt.-angle headers ensures proper mating of housings
Sealed Mini-Universal MATE-N-LOK

• **Description**
  - Sealed Wire to Wire & Wire to Board Product
    • Available in 2, 4, 6, 8, 10, Positions
    • Special Housing for Sealing
    • Standard Mini-Universal MATE-NLOK Contacts
    • Uses Individual Or Ganged Wire Seals (special contacts)
    • Interface seals and individual wire seals or plugs create a splash-proof interface

• **Product Advantages**
  • Provides a low applied cost solution
  • Qualified to IEC 60529 sealing ratings of IP56 and IP 57
  • Uses Existing Standard Application Tooling
  • Backward Compatible with Existing applications
Mini-Universal MATE-N-LOK
Typical Applications

- Appliances
- Vending
- Gaming
- HVAC Systems
- Power Supplies
- Fan Modules
- Lighting
- Wiring Harness Assemblies
Considerations in Selecting Products

• Current Rating (amps) and Voltage required
• Wire type and Size requirements
• Number of positions
• Available Space
• Configuration (Wire to Wire; Wire to Board; Panel mount)
• Operating Temperature Requirements
• Environmental Considerations, are seals required?
• Industry Standards that have to be met
Mini-Universal MATE-N-LOK

Application Tooling

- **Hand:** Premium CERTI-CRIMP and commercial PRO-CRIMPER II crimping tools (manual); 626 Pneumatic Tool System; insertion/extraction tools

- **Semiautomatic:** AMP-O-LECTRIC Model “G” and AMP-O-MATIC Stripper-Crimper bench machines

- **Automatic:** AMPOMATOR CLS IV+ Lead Maker and Komax Lead Makers
Mini-Universal MATE-N-LOK

**Standards**

- UL Recognized, File No. E28476
- CSA Certified, File No. LR 7189
- VDE Tested, Reg. #5618/Continuous Surveillance

• Passed test by VDE under registration number 3476/Continuous Surveillance

• Splash Proof/Sealed Mini-Universal MATE-N-LOK
  - Meets IEC 60529 IP56 & IP57 Internal Protection Sealing Level Requirements
    • IP57 Test -- (Swirling Dust/Immersion @ 1 m for 30 min. - .110-.130 insulation diameter)
    • IP56 Test -- (Swirling Dust/Heavy Seas - .060-.110 insulation diameter)
Mini-Universal MATE-N-LOK

Specifications

• Product Specifications
  – 108-1542  Mini-Universal MATE-N-LOK
  – 108-1542-2 Mini-Universal MATE-N-LOK Splash-Proof Seals
  – 108-1543  Mini-Universal MATE-N-LOK Headers
  – 108-5151  Mini-Universal MATE-N-LOK (UL94V-2)
  – 108-5138  Mini-Universal MATE-N-LOK (UL94V-0)

• Application Specifications
  – 114-13089 Sealed Mini-Universal MATE-N-LOK
  – 114-16017 Mini-Universal MATE-N-LOK

• Instruction Sheet
  – 408-3234  Mini-Universal MATE-N-LOK
Mini-Universal MATE-N-LOK

Support Materials

- Catalog 82181: Soft Shell Pin and Socket Connectors
- Sample Kit 1307763: Soft Shell Family
- Product Information Kit 1654024: Sealed Mini-Universal MATE-N-LOK