Universal MATE-N-LOK Connector System
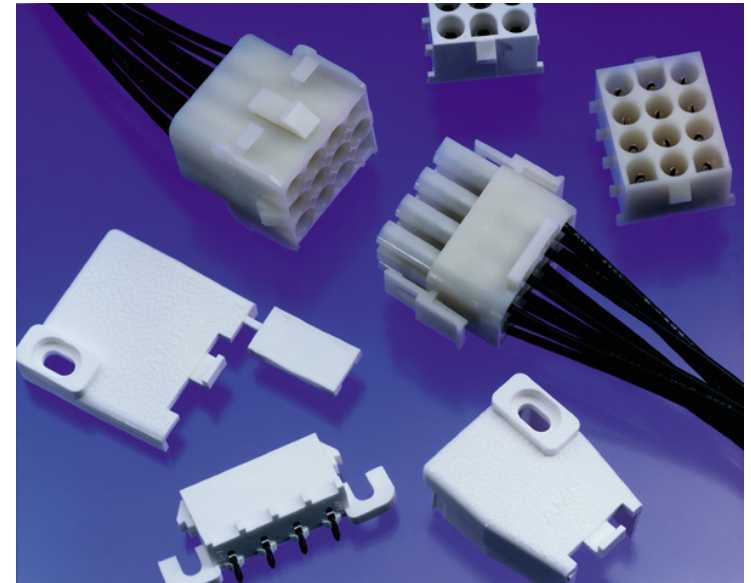
Universal MATE-N-LOK Connector System
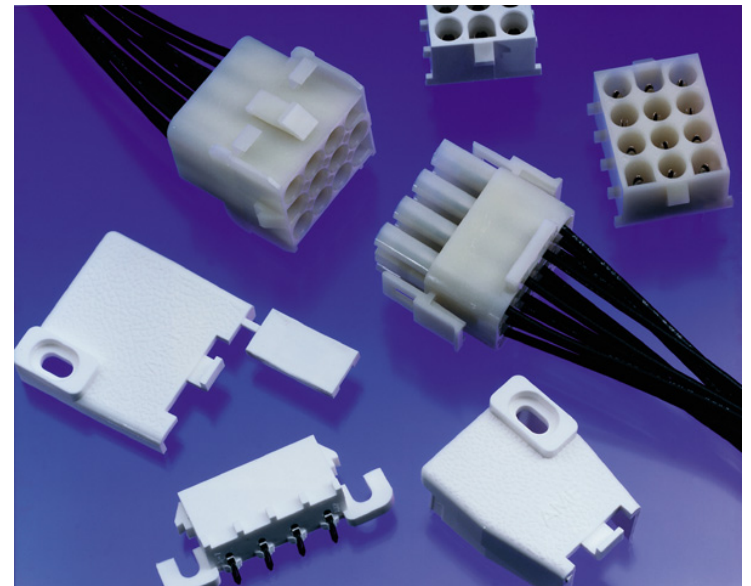
What is Universal MATE-N-LOK?

- Four Component Pin & Socket Connector System Plug & Cap Housing and Pin and Socket Contacts
- Many version have Board level product in Vertical and Right Angle
- Custom and Specialty Designs available for specific requirements
- High Volume very competitive market
- UV resistant materials
- High Temperature Materials
- Special Keys to prevent incorrect mating
- Dual locking lance
- Tin or gold plating
- Wire size: 30-10 AWG
- .250 [6.35] centerline

≡TE connectivity

Universal MATE-N-LOK Connector System

What is Universal MATE-N-LOK?

- Positions
    - 2-10 In-line
    - 6,9,12,15 Matrix
- Configuration
    - Wire-to-Wire (1-15 pos.)
    - Wire-to-Panel
    - Wire-to-Board (2-15 pos.)
    - Vertical/rt.-angle headers
- Electrical
    - 600 VAC/VDC, 19 A max.
- Housing Material
    - Nylon, UL 94-V2 or V0

TE connectivity

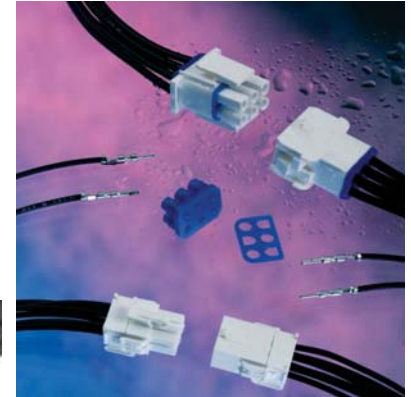# Universal MATE-N-LOK Connector System Product Breadth

Universal MATE-N-LOK™ Sealed Connector System

Universal MATE-N-LOK™ Flanged Cap Housing

Circular Universal MATE-N-LOK™
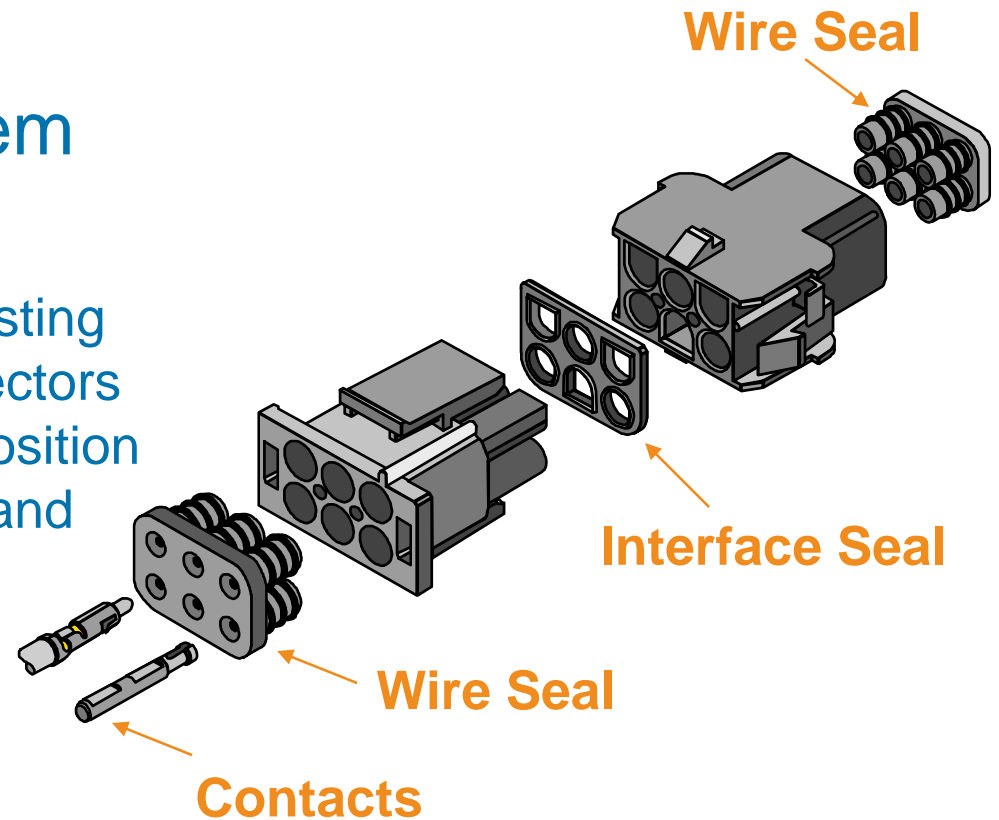
Bulkhead Universal MATE-N-LOK™

Colored Universal MATE-N-LOK™

Universal MATE-N-LOK Sealed Connector System

Wire Seal

Description

Splash Proof Seals used with existing Universal MATE-N-LOK^{TM} Connectors Offered in 2, 3, 4, 6, 9, 12 & 15 position Seals are purchased separately and primarily used in wire-to-wire applications.

Interface Seal

Wire Seal

Contacts

Product Advantages

– Seals fit standard UMNL housings

– Headers without drain holes accept sealed plugs

– Wire AWG only limited by .060-.130 insulation dia.

Universal MATE-N-LOK
Flanged Cap Housing

Description

Flanged Cap Housings with Twist and Lock Feature
Offered in 6, 9, and 12 circuits. Designed for appliance
applications where a bulkhead connector system is
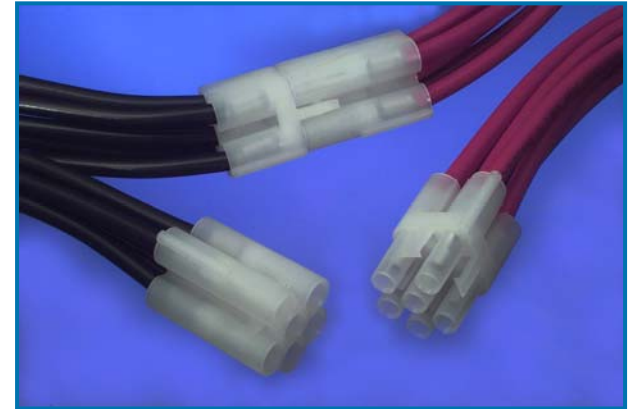needed in conjunction with foam-in insulation

Product Advantages

– Provides a low applied cost solution

– Ease of application in fast paced production

– Designed to use Universal MATE-N-LOK Splash Proof Seals for
additional sealing protection

– Creates industry leading product to meet bulkhead/foam interconnection

– Recommended for .030"-.090" thick panels

– Locks into place on panel without tools

Circular Universal MATE-N-LOK

Description

A six position circular UMNL housing designed for lighting fixtures where complete product assembly at factory is an advantage; Sensitive areas where quick and easy disconnect and connection of a new fixture is required; Places where space limitations require unique configurations.

Product Advantages

– Connector will pass through 7/8" electrical box knock out
– Uses existing UMNL contacts
– Configuration allows for fully loaded housing to be certified by UL & CSA at normal current ratings.
– Connector is certified under UL 1977 to 20 AMPS fully loaded (CSA does not have a comparable spec)
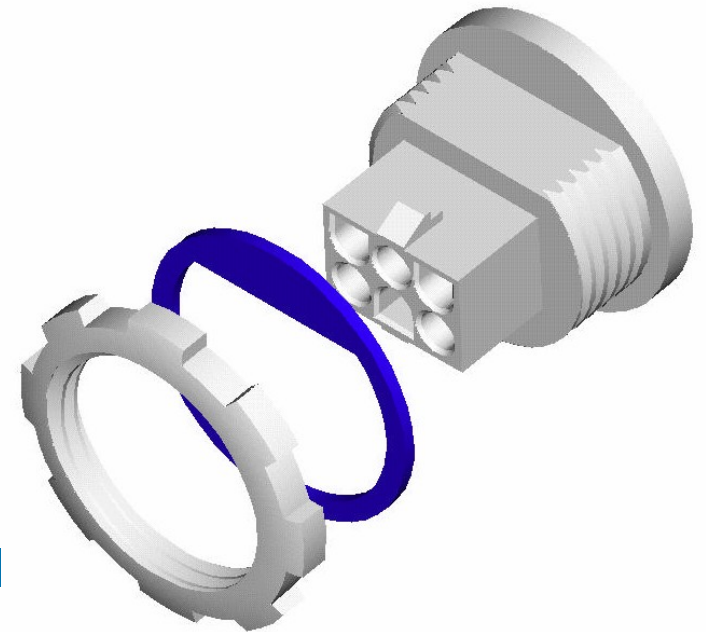– Keyed and ribbed housing insure proper mating of contacts

Bulkhead Universal MATE-N-LOK

Description

A splash proof design that can be used when there is a need to prevent liquid or dust ingress with a connection that passes through a bulkhead panel.

Product Advantages

– Available in 4, 6, 9, 12 Positions

– Splash Proof flange mount design with
  IP 5/6 IP 5/7 Rating

– Provides a low applied cost solution

– Keying feature restricts rotation of connector
  for positive placement and alignment

– Uses Proven Technology in Standard Universal
  MATE-N-LOK™ product

– Rear mount flange design enables use in wire harnesses

Colored Universal MATE-N-LOK

Description

Colored housings are an excellent opportunity to differentiate connectors on a harness and solve the customer need for keying without cost of customization.

Product Advantages

– Available on all Universal MATE-N-LOK connector housings

– Available in Nine colors (8 plus natural)

– V-0 & V-2 Product

  • Slight Color variations to distinguish products
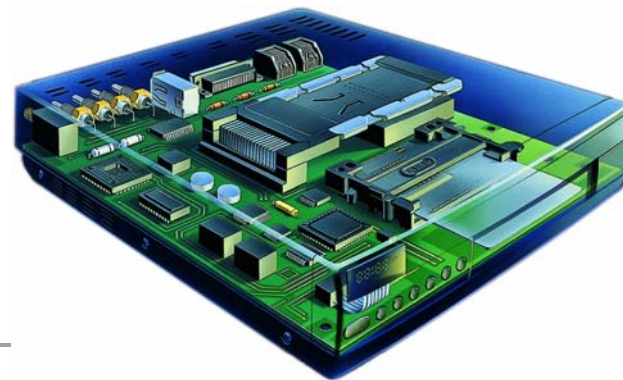
TE connectivity

Soft Shell Product Applications

- Applications

  - <u>Industrial:</u> **HVAC, Medical Equipment, Fuel Pumps, Security Systems, Garage Door Openers, Industrial Controllers, Power supplies, Commercial Refrigeration**

  - <u>Consumer:</u> **Major Appliances, washers/dryers, refrigerators, timer controls, motors, Generators, Coin Changers/Vending Machines, Beverage Dispensers, Gaming**

  - <u>Lighting</u> **Florescent Lights, Message Boards, Sign Boards**

  - <u>Automotive:</u> **Cars, Trucks, Buses, Recreational Vehicles, Light Rail, All Terrain Vehicles, Garden Tractors**

  - Computer: **PCs, Mainframes, Disk Drives, Printers, Office Equipment Telecommunications, Games**

Universal MATE-N-LOK
Typical Applications

Where to Sell Universal MATE-N-LOK?

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

Universal MATE-N-LOK

Specifications

- Product Specifications
  - 108-1031   Universal MATE-N-LOK Connectors
  - 108-1031-1   Splash Proof Seal for UMNL
  - 108-1053   Universal MATE-N-LOK PCB Headers
- Application Specification
  - 114-1010   Universal MATE-N-LOK Contacts
- Instruction Sheet
  - 408-7714   Plug, Cap, Headers, Pin, Socket, & Accessories
  - 408-3392   Splash Proof Seal for UMNL

Bulkhead Universal MATE-N-LOK™ Standards and Specifications

- Instruction Sheet
  - 408-10017 Universal MATE-N-LOK Bulkhead Connector
- Product Specification
  - 108-1031 Universal MATE-N-LOK Connector
- Application Specification
  - 114-1010 Universal MATE-N-LOK Connector

- UL Recognized File No   E284763
- CSA Certified File No   1030930