



Quick Reference Guide

Micro MATE-N-LOK Connector System

The Micro MATE-N-LOK 3 mm connector system offers wire-to-wire and wire-to-board connections with contacts on a 3 mm [.118] centerline and current ratings up to 5 Amps max. per line. Both single-row and dual-row configurations are available. Crimp, snap-in pin and receptacle contacts are used to terminate 30-18 [0.05-0.9 mm²] AWG wire with insulation diameters up to 1.52 mm. Plug and receptacle housings allow wire-to-wire and wire-to-panel configurations and header assemblies offer wire-to-board connections in vertical and right angle configurations. These IR reflow process compatible headers are available in through-hole and surface mount configurations with multiple board mount options.

FEATURES AND BENEFITS

- Wire-to-wire and wire-to-board pin and receptacle connector system
- Contacts are on 3 mm centerline spacing and are available in strip form or loose piece
- Panel mount or free-hanging versions
- Dual beam receptacle contact design for improved reliability
- PCB mount pin header assemblies available in both vertical and right angle styles and surface mount or through hole versions
- Available in low profile design (<4.7 mm)
- Discrete wire interconnect available in 2-12 position single row and 2-24 position dual row
- Housings available to accommodate 18 AWG wire in select circuits up to 6 position
- UL, CSA & VDE approved

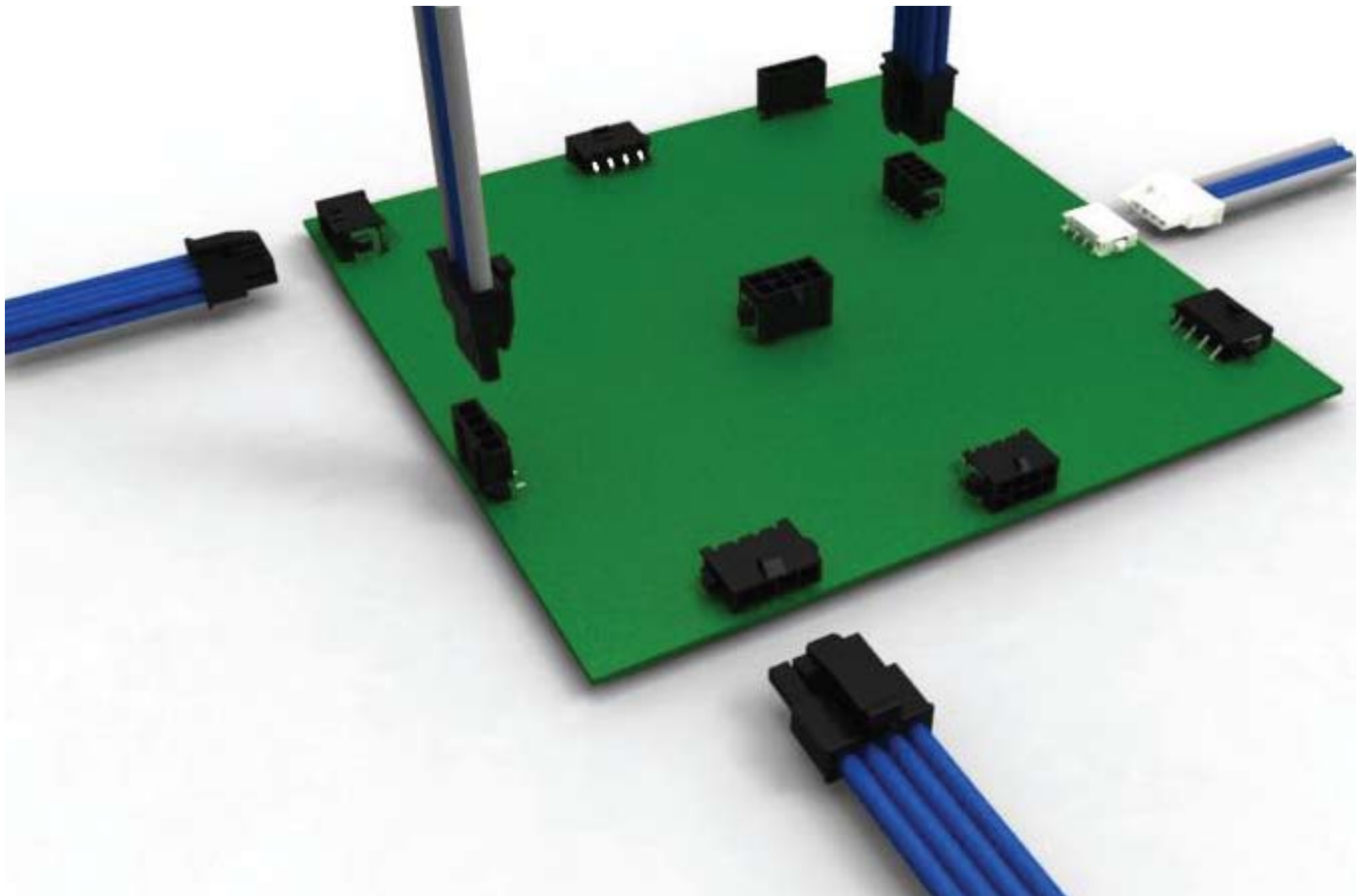
PRODUCT APPLICATIONS

- Household appliances
- Lighting
- Factory automation
- Data storage
- Gaming
- Vending
- Garage door openers
- Security systems

| CONTACTS | | | | | | | | | | |
|---------------------------|---------------------------|------------|-----|----------------------------|-------------|---------|----------|----------|----------------------|-----------|
| Wire Size Range AWG (mm2) | Insulation Diameter Range | Receptacle | Pin | Contact Base Part No. (PN) | | Plating | | | Application Tooling* | Hand Tool |
| | | | | Strip Form | Loose Piece | Tin | 15µ Gold | 30µ Gold | | |
| 26-30 0.12-0.05 | .035-.060 0.89-1.52 | x | | 794607 | 794611 | PN-1 | 1-PN-1 | 1-PN-2 | 680894-x | 91502-1 |
| 20-24 0.50-0.20 | .035-.060 0.89-1.52 | x | | 794606 | 794610 | PN-1 | 1-PN-1 | 1-PN-2 | 680893-x | 91501-1 |
| 22-18 0.3-0.9 | .059-.110 1.50-2.79 | x | | 2008625 | | PN-1 | PN-2 | PN-3 | 1530194-1 | |
| 26-30 0.12-0.05 | .035-.060 0.89-1.52 | | x | 794609 | 794613 | 1-PN-0 | 1-PN-1 | 1-PN-2 | 1385377-x | 91502-1 |
| 20-24 0.50-0.20 | .035-.060 0.89-1.52 | | x | 794608 | 794612 | 1-PN-0 | 1-PN-1 | 1-PN-2 | 1385194-x | 91501-1 |

*For application tooling, use -1 for AMPOMATOR CLS Machine, -2 for AMP-O-LECTRIC Model K Terminator, -3 for AMP-O-LECTRIC Model G Terminator.

Note: To select a contact and plating, first select the contact base part number and add appropriate plating prefix and suffix. For example, for a loose piece receptacle with 30µ gold plating, select base part number 794610 and add the plating prefix and suffix for 30µ gold to obtain part number 1-794610-2.



| SINGLE ROW HEADERS | | | | | | | | | | | | | | | |
|--------------------|----------|------------|---------------|----------|----------|----------|-------------|-----|-----------|---------------|-----------------|-------------------|--------------|-------------|-------------|
| Part No. (PN) | Position | Single Row | Plating Style | | | Vertical | Right Angle | SMT | Thru-hole | SMT Hold Down | Metal Hold Down | Plastic Hold Down | Packing Type | | Mating Half |
| | | | Tin | 15µ gold | 30µ gold | | | | | | | | Tray | Tape & Reel | |
| x-1445050-x | 2-12 | x | x | | | x | | | x | | | x | x | | x-1445022-x |
| x-1445051-x | 2-12 | x | x | | | x | | x | x | | x | | x | | x-1445022-x |
| x-1445052-x | 2-12 | x | x | | | x | | x | x | | x | | | x | x-1445022-x |
| x-1445053-x | 2-12 | x | x | | | x | | x | | x | | | | | x-1445022-x |
| x-1445054-x | 2-12 | x | x | | | | x | | x | | x | | x | | x-1445022-x |
| x-1445055-x | 2-12 | x | x | | | | x | | x | | | x | x | | x-1445022-x |
| x-1445056-x | 2-12 | x | x | | | | x | x | x | | x | | | x | x-1445022-x |
| x-1445057-x | 2-12 | x | x | | | | x | x | | x | | | | x | x-1445022-x |
| x-1445058-x | 2-12 | x | x | | | | x | x | | | | x | | x | x-1445022-x |
| x-1445084-x | 2-12 | x | | x | | x | | | x | | | x | x | | x-1445022-x |
| x-1445085-x | 2-12 | x | | x | | x | | x | x | | x | x | x | | x-1445022-x |
| x-1445086-x | 2-12 | x | | x | | x | | x | x | | x | | | x | x-1445022-x |
| x-1445087-x | 2-12 | x | | x | | x | | x | | x | | | | | x-1445022-x |
| x-1445088-x | 2-12 | x | | x | | | x | | x | | x | | x | | x-1445022-x |
| x-1445089-x | 2-12 | x | | x | | | x | | x | | | x | x | | x-1445022-x |
| x-1445090-x | 2-12 | x | | x | | | x | x | x | | x | | | x | x-1445022-x |
| x-1445091-x | 2-12 | x | | x | | | x | x | | x | | | | x | x-1445022-x |
| x-1445092-x | 2-12 | x | | x | | | x | x | | | | x | | x | x-1445022-x |
| x-1445093-x | 2-12 | x | | | x | x | | | x | | | x | x | | x-1445022-x |
| x-1445094-x | 2-12 | x | | | x | x | | | | | | | x | | x-1445022-x |
| x-1445095-x | 2-12 | x | | | x | x | | x | x | | x | | | x | x-1445022-x |
| x-1445096-x | 2-12 | x | | | x | x | | x | | x | | | | | x-1445022-x |
| x-1445097-x | 2-12 | x | | | x | | x | | x | | x | | x | | x-1445022-x |
| x-1445098-x | 2-12 | x | | | x | | x | | x | | | x | x | | x-1445022-x |
| x-1445099-x | 2-12 | x | | | x | | x | x | x | | x | | | x | x-1445022-x |
| x-1445100-x | 2-12 | x | | | x | | x | x | | x | | | | x | x-1445022-x |
| x-1445101-x | 2-12 | x | | | x | | x | x | | | | x | | x | x-1445022-x |



| PART NUMBER EXPLANATION | |
|-------------------------|--------------------|
| 2-PN-2 | 2 Position Header |
| 2-PN-3 | 3 Position Header |
| 2-PN-4 | 4 Position Header |
| 2-PN-5 | 5 Position Header |
| 2-PN-6 | 6 Position Header |
| 2-PN-7 | 7 Position Header |
| 2-PN-8 | 8 Position Header |
| 2-PN-9 | 9 Position Header |
| 3-PN-0 | 10 Position Header |
| 3-PN-1 | 11 Position Header |
| 3-PN-2 | 12 Position Header |

Note: To select the complete part number:

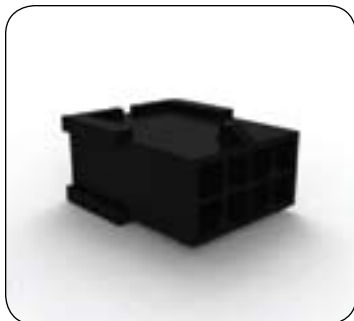
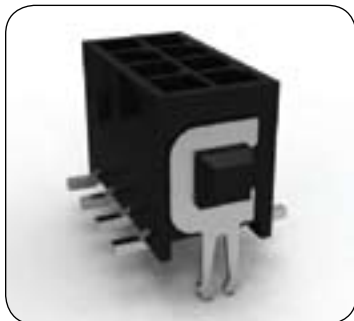
- Use 2- prefix for single row headers up to 9 positions.
- Use 3- prefix for single row headers from 10 to 12 positions.
- The -X suffix indicates number of positions.

(Example: 2-1445050-5 would be a 5 position header.
3-1445050-1 would be an 11 position header.)

| DOUBLE ROW HEADERS | | | | | | | | | | | | | | | |
|--------------------|----------|------------|---------------|----------|----------|----------|-------------|-----|-----------|---------------|-----------------|-------------------|--------------|-------------|-------------|
| Part No. (PN) | Position | Double Row | Plating Style | | | Vertical | Right Angle | SMT | Thru-hole | SMT Hold Down | Metal Hold Down | Plastic Hold Down | Packing Type | | Mating Half |
| | | | Tin | 15µ Gold | 30µ Gold | | | | | | | | Tray | Tape & Reel | |
| x-794618-x | 2-24* | x | x | | | | x | | x | | | x | x | | x-794617-x |
| x-794619-x | 2-24* | x | | x | | | x | | x | | | x | x | | x-794617-x |
| x-794620-x | 2-24* | x | | | x | | x | | x | | | x | x | | x-794617-x |
| x-794621-x | 2-24* | x | x | | | | x | x | | | | x | | x | x-794617-x |
| x-794622-x | 2-24* | x | | x | | | x | x | | | | x | | x | x-794617-x |
| x-794623-x | 2-24* | x | | | x | | x | x | | | | x | | x | x-794617-x |
| x-794624-x | 2-24* | x | x | | | | x | x | x | | x | | | x | x-794617-x |
| x-794625-x | 2-24* | x | x | | | | x | x | x | | x | | | x | x-794617-x |
| x-794626-x | 2-24* | x | | | x | | x | x | x | | x | | | x | x-794617-x |
| x-794627-x | 2-24* | x | x | | | | x | x | | x | | | | x | x-794617-x |
| x-794628-x | 2-24* | x | | x | | | x | x | | x | | x | | x | x-794617-x |
| x-794629-x | 2-24* | x | | | x | | x | x | | x | | x | | x | x-794617-x |
| x-794630-x | 2-24* | x | x | | | x | | | x** | | | | x | | x-794617-x |
| x-794631-x | 2-24* | x | | x | | x | | | x** | | | | x | | x-794617-x |
| x-794632-x | 2-24* | x | | | x | x | | | x** | | | | x | | x-794617-x |
| x-794633-x | 2-24* | x | x | | | x | | x | | | x | | | x | x-794617-x |
| x-794634-x | 2-24* | x | | x | | x | | x | | | x | | | x | x-794617-x |
| x-794635-x | 2-24* | x | | | x | x | | x | | | x | | | x | x-794617-x |
| x-794636-x | 2-24* | x | x | | | x | | x | | x | | | | x | x-794617-x |
| x-794637-x | 2-24* | x | | x | | x | | x | | x | | | | x | x-794617-x |
| x-794638-x | 2-24* | x | | | x | x | | x | | x | | | | x | x-794617-x |
| x-794677-x | 2-24* | x | x | | | | x | | x | | x | | x | | x-794617-x |
| x-794678-x | 2-24* | x | | x | | | x | | x | | x | | x | | x-794617-x |
| x-784679-x | 2-24* | x | | | x | | x | | x | | x | | x | | x-794617-x |
| x-794680-x | 2-24* | x | x | | | x | | | x** | | x | | x | | x-794617-x |
| x-794681-x | 2-24* | x | | x | | x | | | x** | | x | | x | | x-794617-x |
| x-794682-x | 2-24* | x | | | x | x | | | x** | | x | | x | | x-794617-x |

*Available in even positions only.

**With retention feature on solder tail.



| PART NUMBER EXPLANATION | |
|-------------------------|--------------------|
| 3-PN-2 | 2 Position Header |
| 3-PN-4 | 4 Position Header |
| 3-PN-6 | 6 Position Header |
| 3-PN-8 | 8 Position Header |
| 4-PN-0 | 10 Position Header |
| 4-PN-2 | 12 Position Header |
| 4-PN-4 | 14 Position Header |
| 4-PN-6 | 16 Position Header |
| 4-PN-8 | 18 Position Header |
| 5-PN-0 | 20 Position Header |
| 5-PN-2 | 22 Position Header |
| 5-PN-4 | 24 Position Header |

Note: To select the complete part number:

- Use 3- prefix for dual row headers up to 8 positions.
- Use 4- prefix for dual row headers from 10 to 18 positions.
- Use 5- prefix for dual row headers from 20 to 24 positions.
- The -X suffix indicates number of positions.

(Example: 3-794630-4 would be a 4 position header.
4-794630-4 would be a 14 position header. 5-794630-4 would be a 24 position header.)

| HOUSINGS | | | | | | | | |
|-----------------|-------------|------|------------|------------|------------|--------------|-------------|--|
| No. of Circuits | Part No. | Plug | Receptacle | Single Row | Double Row | Free Hanging | Panel Mount | With Mates |
| 2-12 | x-1445049-x | x | | x | | x | | x-1445022-x |
| 2-12 | x-1445048-x | x | | x | | | x | x-1445022-x |
| 2-24* | x-794616-x | x | | | x | x | | x-794617-x |
| 2-24* | x-794615-x | x | | | x | | x | x-794617-x |
| 2-12 | x-1445022-x | | x | x | | | | x-1445049-x, x-1445048-x All single row headers |
| 2-24* | x-794617-x | | x | | x | | | x-794616-x, x-794615-x, All double row headers |

Note: Use the prefix and suffix to indicate position size. (Example: 794617-2 would be a 2 position housing and 2-794617-4 would be a 24 position housing.)

| SELECT 18 AWG RECEPTACLE HOUSINGS | | | | | |
|-----------------------------------|-----------------------|------------------------------|-------|-----------|------------|
| No. of Position | Part No. ¹ | 18 AWG Circuits ² | Black | Top Latch | Side Latch |
| 2 | 2008570-2 | 1, 2 | x | | x |
| 3 | 2008570-3 | 1, 3 | x | | x |
| 4 | 2008570-4 | 1, 4 | x | | x |
| 5 | 2008570-5 | 1, 3, 5 | x | | x |
| 6 | 2008570-6 | 1, 3, 6 | x | | x |
| 2 | 2008571-2 | 1, 2 | x | x | |
| 3 | 2008571-3 | 1, 3 | x | x | |
| 4 | 2008571-4 | 1, 4 | x | x | |
| 5 | 2008571-5 | 1, 3, 5 | x | x | |
| 6 | 2008571-6 | 1, 3, 6 | x | x | |

Notes: 1. For natural color add 1- prefix to base part number.
2. Remaining circuits accommodate 20 AWG wire or smaller using standard contacts.



| LOW PROFILE RECEPTACLE HOUSINGS | | |
|---------------------------------|------------------|-----------|
| Positions | Color & Part No. | |
| | Natural | Black |
| 2 | 2029102-2 | 2029047-2 |
| 3 | 2029102-3 | 2029047-3 |
| 4 | 2029102-4 | 2029047-4 |

| LOW PROFILE RIGHT ANGLE SURFACE MOUNT | | |
|---------------------------------------|------------------|-----------|
| Positions | Color & Part No. | |
| | Natural | Black |
| 2 | 2029104-2 | 2029030-2 |
| 3 | 2029104-3 | 2029030-3 |
| 4 | 2029104-4 | 2029030-4 |



| ADDITIONAL CONNECTOR KITS AVAILABLE | |
|-------------------------------------|--|
| Kit Part No. | Kit Description |
| 2-2110852-2 | Micro MATE-N-LOK Single Row Plug and Receptacle Connector Kit |
| 2-2110852-3 | Micro MATE-N-LOK Dual Row Plug and Receptacle Connector Kit |
| 2-2110852-4 | Micro MATE-N-LOK Through Hole Single Row Vertical Header and Receptacle Connector Kit |
| 2-2110852-5 | Micro MATE-N-LOK Through Hole Single Row Right Angle Header and Receptacle Connector Kit |
| 2-2110852-6 | Micro MATE-N-LOK Through Hole Dual Row Vertical Header and Receptacle Connector Kit |
| 2-2110852-7 | Micro MATE-N-LOK Through Hole Dual Row Right Angle Header and Receptacle Connector Kit |
| 2-2110852-8 | Micro MATE-N-LOK Surface Mount Single Row Right Angle Header and Receptacle Connector Kit |
| 2-2110852-9 | Micro MATE-N-LOK Deluxe Single and Dual Row Vertical and Right Angle Header, Plug and Receptacle Kit |