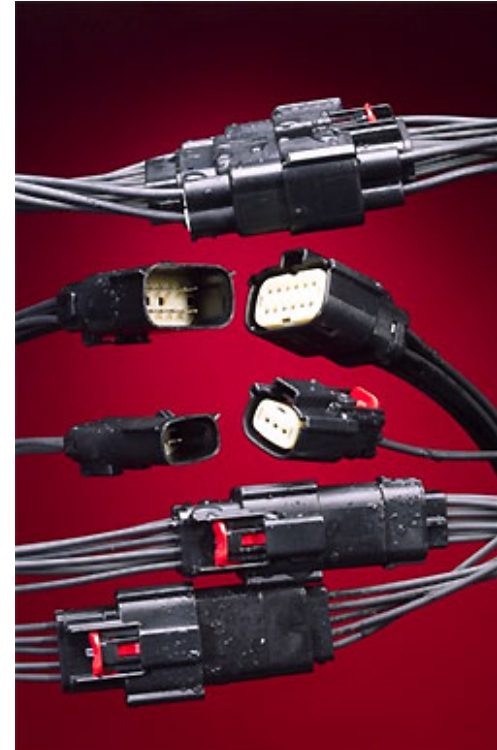# MX150L Connector Systems

- **Developed for the transportation industry to stand up to the harsh environments which create mechanical stresses and extreme exposure to the elements**
- **High power sealed system**
  - **Up to 40 amps per circuit**
  - **8-22awg**
  - **Up to 16 circuits per connector**
  - **Used with thick insulation wires**
- **Supports OEM requirements**
  - **High corrosion resistance**
  - **Ease of assembly**
  - **Reduction of OEM warranty issues**
  - **USCAR II Class 3 & UL1977 rated**

molex

Features and Benefits

- **Superior Performance**
  - **Superior electrical performance & reliability**
  - **IP67 rated**
- **Easy to Use**
  - **Product shipped in one piece**
    - **No loose parts to assemble – TPA, CPA seals etc…**
  - **Matte seal technology - no wire seal crimping**
- **Simple to service**
  - **Needle nose pliers, standard screwdriver**
  - **Terminal extraction tool**

molex

Variations

- **Positive lock for connector mating assurance**
- **Loud audible click**
- **Sold with or without CPA**
- **Low applied cost solution: matte seal design vs. individual wire seal design**
- **Pre-loaded TPA**
- **Multiple configurations**
  - **Wire to wire**
  - **Wire to board**
  - **Wire to panel mount**
- **Panel mount option with mounting flange**
  - **Includes a separate molded seal that can be applied on either side of the flange**

molex®

Sealing Strengths

Competition

MX150

No rear cap:

- **When wires are pulled to the side, the seal has the potential to open which exposes the connector to leaks**

With rear cap:

- **Seals are imbedded inside the connector. The bend radius starts past the end of the seal to eliminate separation and leaks**
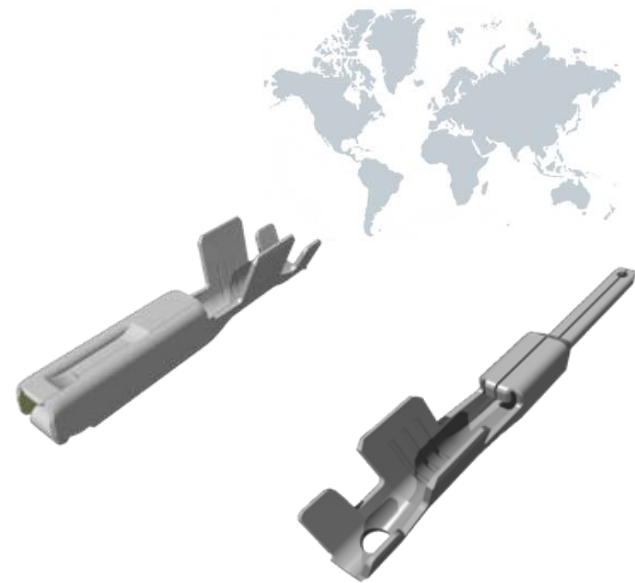
molex

Product Features

Terminal Design

Terminal design

- Engineered balance between opposing requirements
  - Low insertion force
  - Superior electric performance
  - Proven mechanical reliability
- Plating options
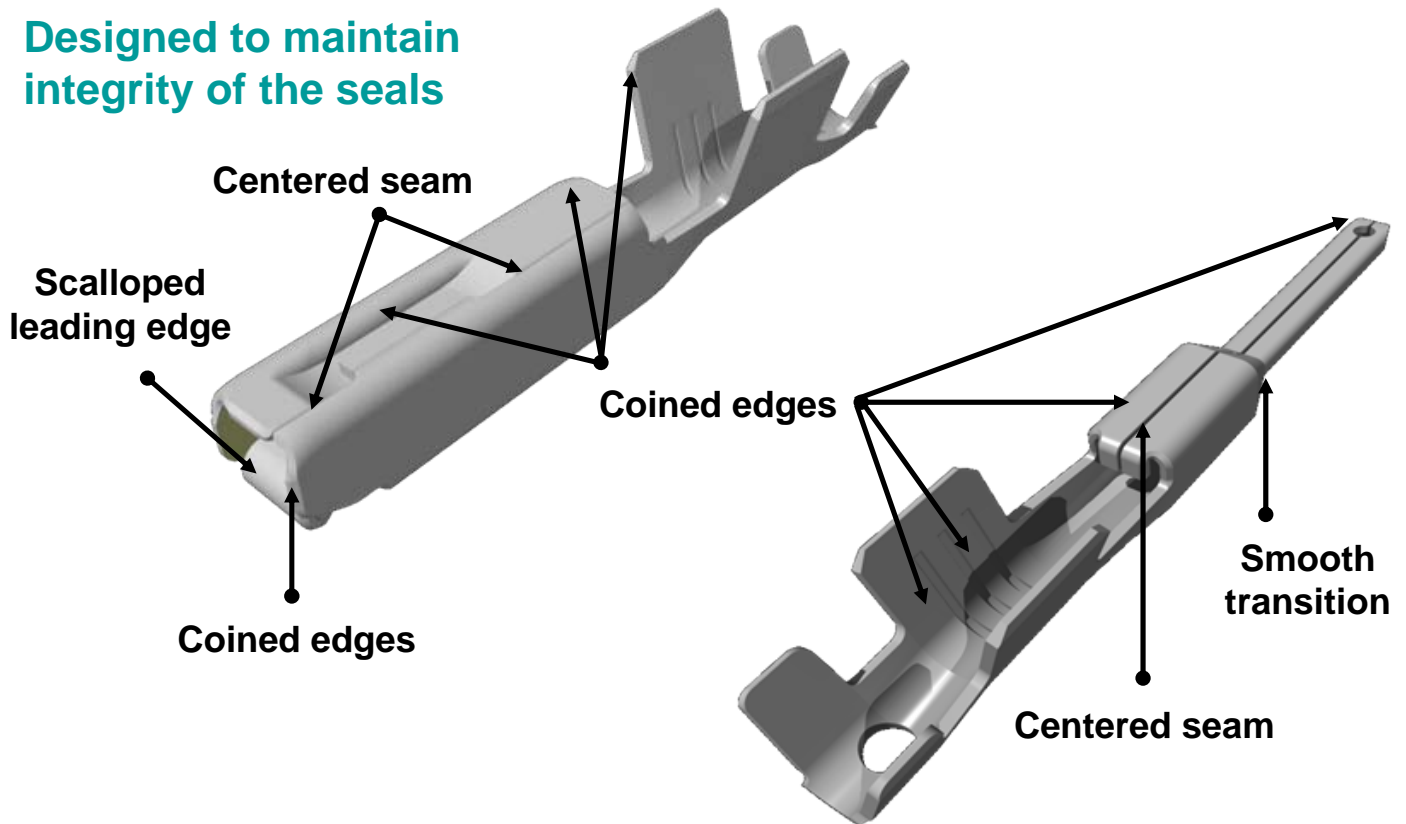 - Tin (matte finish)
  - Gold (30 µ" min.)
  - Silver (semi-bright)

molex

Product Details

Matte seal friendly terminal features

Designed to maintain integrity of the seals

Centered seam

Scalloped leading edge

Coined edges

Coined edges

Smooth transition

Centered seam

molex

Tooling

- **Industry standard applicators**
- **Hand crimp tools for field repairs**
- **Terminal extraction tool (right) for field servicing**