Compact, IP67-rated wire-to-wire connectors offer superior economic value and sealing performance for non-USCAR transportation applications

**Features and Benefits**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ring seal and individual wire seals</td>
<td>Ensure IP67 sealing class protection of wired assembly from end-to-end during high-durability cycles</td>
</tr>
<tr>
<td>Highly compact mated interconnect length (43.95 mm)</td>
<td>Provides up to 30% more space-savings than competing equivalents</td>
</tr>
<tr>
<td>Automatic seal positioning (patent pending)</td>
<td>Ensures reliable sealing during repeated mate and un-mate cycles</td>
</tr>
<tr>
<td>Supports up to 12.0A current per blade; 16.0A current per blade option available upon request</td>
<td>Ideal for high and low-current applications</td>
</tr>
<tr>
<td>Choice of 3 keyed, color-coded version interconnects</td>
<td>Differentiates between connectors with identical circuit sizes and prevents mis-mating during final assembly</td>
</tr>
<tr>
<td>Pre-loaded Primary Latch Reinforcement (PLR) feature (optional)</td>
<td>Ensures no accidental terminal back-out of crimped contacts when subject to vibration as per USCAR-2, T3-V1 (Body Profile). Non-PLR feature version gives flexibility in pricing based on customer need</td>
</tr>
<tr>
<td>Pre-plated Tin (Sn) crimps</td>
<td>Prevents corrosion and improve crimp contact and mating</td>
</tr>
<tr>
<td>Clip-slot feature (optional)</td>
<td>Secures the connector to the application chassis for use in high-vibration environment. Non-clip-slot version gives greater pricing flexibility based on customer need</td>
</tr>
</tbody>
</table>

**Applications**

**Automotive (non-USCAR)**
- Cars
- Light Commercial Vehicles (LCV)

**Non-automotive Transportation**
- Motorcycles
- Scooters
- 3-wheelers (auto rickshaws, tuk tuk)
Specifications

Reference Information
Packaging:
- Bag (Housings, Ring Seals and PLR); Reel (Crimps)
Mates With: Male with female connector for corresponding single and dual-row circuit sizes
Use With:
- Series 150148 and 150150 Female Connector is used with Series 150153 Female Crimp Terminal
- Series 150149 and 150151 Male Connector is used with Series 150152 Male Crimp Terminal
Designed In: Millimeters
RoHS: Yes.
Halogen Free: Yes on exemption.
Glow Wire Compliant: NA

Electrical
- Voltage (max.): 12V DC
- Current (max.): 12A (16A Optional)
- Contact Resistance (max.): 10 Milliohms
- Dielectric Withstanding Voltage: 1000V AC
- Insulation Resistance (min.): 20 Megohms

Mechanical
- Contact Insertion Force (max.): 30N
- Contact Retention to Housing (min.): 45N
- Mating Force (max.): 75N
- Unmating Force (max.): 75N
- Durability (min.): 10 cycles

Sealing
- IP67

Physical
- Housing: PA6
- Contact: Copper Alloy
- Plating:
  - Contact Area — Tin (Sn)
- Operating Temperature: -40 to +125°C

Product Configuration – Example: 2-By-3 Circuit MX150 CE Connector Assembly

Exploded view of 2-by-3-circuit MX150 CE Connector Assembly

Housing color options  |  Polarization Angle options
------------------------|---------------------------
Black                   |  60 (L) by 60 (R) degrees
Light Grey              |  50 (L) by 70 (R) degrees
Dark Grey               |  40 (L) by 40 (R) degrees

Figure 6: Key coding options
MX150™ CE Sealed Wire-to-Wire Interconnects

Product Configuration

Dual-row, Female Connector, without PLR,
2 by 3 circuits
(150148-0601)

Dual-row, Female Connector, with PLR,
2 by 3 circuits
(150148-0611)

Dual-row, Female Connector, without PLR,
2 by 6 circuits
(150148-1201)

Dual-row, Female Connector, with PLR,
2 by 6 circuits
(150148-1211)

Dual-row, Male Connector, without PLR,
2 by 3 circuits
(150149-0601)

Dual-row, Male Connector, with PLR,
2 by 3 circuits
(150149-0611)

Dual-row, Male Connector, without PLR,
2 by 6 circuits
(150149-1201)

Dual-row, Male Connector, with PLR,
2 by 6 circuits
(150149-1211)

Single-row, Female Connector, without PLR,
1 by 2 circuits
(150150-0201)

Single-row, Female Connector, with PLR,
1 by 2 circuits
(150150-0211)

Single-row, Female Connector, without PLR,
1 by 3 circuits
(150150-0301)

Single-row, Female Connector, with PLR,
1 by 3 circuits
(150150-0311)

Single-row, Male Connector, without PLR,
1 by 2 circuits
(150151-0201)

Single-row, Male Connector, with Clipslot and PLR,
1 by 2 circuits
(150151-0211)

(Left to right): Male and Female Crimp Terminals
(150152 and 150153 respectively)