The high-performance, compact MXP120™ Sealed Connection System is designed to perform in harsh environments and can replace common 1.50mm systems in space-constrained safety-restraint, body electronics and powertrain applications.

**Features and Benefits**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Versatile sealed connection system using space-saving 1.20mm terminals on 4.00mm pitch</td>
<td>Meets power requirements up to 13.0A Suitable for sealed safety-restraint, body electronics and powertrain applications</td>
</tr>
<tr>
<td>Single wire seal (SWS) connection system with robust perimeter seal</td>
<td>IP68 rated. IPX9K under evaluation Withstands high-pressure spray environments</td>
</tr>
<tr>
<td>Reduced package size when compared to existing 1.50mm connection systems</td>
<td>Offers significant space-savings for confined design parameters</td>
</tr>
<tr>
<td>Accommodates wire gauges up to 1.00mm²</td>
<td>Limits connector pitch to 4.00mm with SWS</td>
</tr>
<tr>
<td>Compatible with AK and USCAR interfaces; designed using worldwide AK cavity definition</td>
<td>Confirms global acceptance and marketability</td>
</tr>
<tr>
<td>Female receptacles feature medium or long shrouds for 1-by-4 circuit and above (short shrouds for below 4-circuit)</td>
<td>Ensures all circuit sizes and keying options are scoop proof</td>
</tr>
<tr>
<td>Female receptacles with Independent Secondary Locking (ISL)</td>
<td>Ensures efficient terminal positioning and detection of partial installation of terminals</td>
</tr>
<tr>
<td>Male blade connectors with Primary Lock Reinforcement (PLR)</td>
<td>Secure mating performance</td>
</tr>
<tr>
<td>Female receptacles feature integral locking-latch with bridge protection and audible click</td>
<td>Avoids damage to the latch during packaging and transit</td>
</tr>
</tbody>
</table>

Black Housings: Body Electronics & Powertrain Applications

![Black Housings: Body Electronics & Powertrain Applications](image)

Yellow Housings: Safety Applications

![Yellow Housings: Safety Applications](image)
MXP120™ Sealed Connector System
34900, 34899, 160091

Applications

MXP120™ Sealed Connector System
Sealed applications in automotive and commercial vehicles:

Black Outer Housings:
Body electronics connections in wet areas T3-V1-S2 with tin terminals; T3-V2-S2 with silver terminals:
- Exterior lighting
- Turn signals (indicators)
- Door-lock mechanisms
Powertrain (T4-V4-S3 - 155°C high-vibration for severe applications, high-pressure jets)
- Fuel injection
- Emission controls
- Ignition coil

Yellow Outer Housings:
Safety systems T3-V2-S2 125°C on-engine vibration:
- Supplemental Inflatable Restraints (SIR)
- Safety Restraint Systems (SRS)
- Seat-belt pretensioners
- Airbags - steering wheel / side / curtain

Specifications

REFERENCE INFORMATION
Packaging:
Housings – 4-cell bulk pack
Use With:
Receptacle terminals – 1.2 LL SWS from Tyco and Kostal
Blade terminals – 1.2 CB SWS from Tyco
Cavity Plugs – Tyco
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

ELECTRICAL
Voltage (max.): 500V DC
Current (max.): 13.0A
Contact Resistance: 8 milliohms max.
Dielectric Withstanding Voltage:
1000V AC min for 60sec.
Insulation Resistance: 100 Megohms min.

PHYSICAL
Housing: PA SPS resin
Operating Temperature: -40 to +125°C
Flammability: Per ISO3795 or GMW3191
Burn rate: 100mm/ Mn max.
Material self-extinguishing

For full Product Specification please refer to:
PS-34900-0001

Ordering Information

<table>
<thead>
<tr>
<th>Gender</th>
<th>Circuit Size</th>
<th>Series No.</th>
<th>Outer Shroud Size</th>
<th>Housing Colour</th>
<th>Cavity Insert Color</th>
<th>Coding</th>
<th>Clip Slot†</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>1x2</td>
<td>34900</td>
<td>Short</td>
<td>Yellow</td>
<td>Black, Light Grey</td>
<td>A</td>
<td>-</td>
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<tr>
<td></td>
<td>1x3</td>
<td></td>
<td>Medium</td>
<td>Black</td>
<td>Light Grey</td>
<td>B</td>
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<tr>
<td></td>
<td>1x4</td>
<td></td>
<td>Long</td>
<td>Dark Grey</td>
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<td>C</td>
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<tr>
<td></td>
<td>1x6</td>
<td></td>
<td></td>
<td>Stone Grey</td>
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<td>D</td>
<td>-</td>
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<tr>
<td>Male</td>
<td>34899</td>
<td></td>
<td></td>
<td>Black</td>
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<td>E</td>
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<td></td>
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<td>Light Grey</td>
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<td></td>
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<td></td>
<td></td>
<td>Dark Grey</td>
<td></td>
<td></td>
<td>- 7mm (USCAR)</td>
</tr>
</tbody>
</table>

† Custom clip-slots available, volume dependant - contact Molex

www.molex.com/dpb/mxp120.html