CMX Sealed Connectors
55- and 65-Circuit 2.50mm, 3.70mm Pitch

High-density CMX Sealed Connectors are designed to meet the low- and medium-current requirements of space-constrained electronic control units and other wire-to-board transportation applications

Features and Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-row connector design with fine pitch of 2.50 and 3.70mm</td>
<td>Requires reduced space on customer printed circuit boards (PCBs) or engine compartments</td>
</tr>
<tr>
<td>Hybrid connection system uses 2 different, high-conductivity, copper-alloy terminal sizes: CTX 064 (0.64mm) and CTX 150 (1.50mm)</td>
<td>Supports low and medium current applications from 2.5A up to 6.0A. Copper alloy allows excellent stress relaxation and current-carrying properties</td>
</tr>
<tr>
<td>CTX 064 and CTX 150 terminals are one-piece, clean-body type</td>
<td>Lower cost than two-piece CP terminals</td>
</tr>
<tr>
<td>Connectors feature matte-seal (also known as grommet seal) technology for CTX 064 and CTX 150 terminals</td>
<td>Ultimate sealing protection for terminals; connectors can perform in sealed applications where IPx9K rating and 500mbar water-tightness are required</td>
</tr>
<tr>
<td>Actuating the connector lever engages the interfacial-seal protector. Sophisticated design of the interfacial-seal protector surrounds the CMX connector whilst also protecting the interfacial (also known as perimeter) seal</td>
<td>Ensures that connector remains fully sealed before mating and during mating and unmating operations; meets quality demands from harness makers</td>
</tr>
<tr>
<td>Rear seal-cover can be molded with breakable dummy-plugs for the CTX terminal cavities. Alternatively, blind plugs are available for each cavity size</td>
<td>Allows greater flexibility for customers requiring voided cavities. Breakable dummy-plugs remove a process and therefore reduce assembly cycle-time and applied costs for harness makers</td>
</tr>
<tr>
<td>CMX system offers several colour codings and mechanical polarization. High-density, space-saving system</td>
<td>Reduces cycle-time during harness assembly due to easy visual installation. Avoids mis-mating of the headers and connectors</td>
</tr>
</tbody>
</table>

Applications

Wire-to-board applications:

**Powertrain**
- Electronic Control Unit (ECU)
- Gear box
- Suspension controller
- Electronic parking brake

**Body Electronics**
- Junction/fuse box
- Lighting control system
- Electric doors

**Automotive and Commercial Vehicles**:
- Cars
- Motorcycles
- 3-wheelers
- 4-wheelers, Golf carts
- Light Goods Vehicles
- Boats, Jet Skis
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55- and 65-Circuit 2.50mm, 3.70mm Pitch

Specifications

REFERENCE INFORMATION
Packaging: Carton box
Mates With: Please contact Product Manager; currently no mating standard CMX header available
Use With:
Terminals:
Series 34803 CTX 064
Series 34805 CTX 150
Blind plugs:
For CTX 064 cavity: 64325-1010
For CTX 150 cavity: 64325-1023
(Use blind plugs only if rear seal-cover is not molded with breakable dummy-plugs)
Wire Caps:
55-Circuit: 502730-5501
65-Circuit: 502730-6501
Designed In: mm
RoHS: Yes
Halogen Free: Yes

PHYSICAL
Housing: PBT GF 20%
Operating Temperature: -40 to +120°C
Connector loading:
65-Circuit CMX Connector:
0.64mm cavity × 55
1.50mm cavity × 10
55-Circuit CMX Connector:
0.64mm cavity × 35
1.50mm cavity × 20

MECHANICAL
Contact Retention to Housing:
CTX 064 terminal: 60N
CTX 150 terminal: 98N
Mating Force: 60N max.
Unmating Force: 60N max.
Durability (max.): 20 cycles

ELECTRICAL
Current (max.):
CTX 064 terminal: 2.0A (0.85mm² wire)
CTX 150 terminal: 7.5A (0.85mm² wire)
Contact Resistance: (100mA 50mV)
CTX 064 terminal: 30m ohms max..
CTX 150 terminal: 10m ohms max.
Dielectric Withstanding Voltage:
1000V AC for 1 minute
Insulation Resistance: 100 Megohms min.

Ordering Information

Connector

<table>
<thead>
<tr>
<th>Order No.</th>
<th>No. of Circuits</th>
<th>Colour Coding</th>
<th>Wire Output</th>
<th>Wire Cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>34885-5511</td>
<td>55</td>
<td>Black</td>
<td>Right</td>
<td>502730-5501</td>
</tr>
<tr>
<td>34885-5512</td>
<td></td>
<td>Brown</td>
<td>Left</td>
<td>502730-5501</td>
</tr>
<tr>
<td>34885-5521</td>
<td></td>
<td>Brown</td>
<td>Right</td>
<td>502730-5501</td>
</tr>
<tr>
<td>34885-5522</td>
<td></td>
<td>Brown</td>
<td>Left</td>
<td>502730-5501</td>
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<tr>
<td>34885-6511</td>
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<td>Brown</td>
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<td>502730-5501</td>
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<td>Brown</td>
<td>Left</td>
<td>502730-5501</td>
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<tr>
<td>34885-6522</td>
<td></td>
<td>Brown</td>
<td>Left</td>
<td>502730-5501</td>
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</tbody>
</table>

CTX Terminals

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Terminal Type</th>
<th>Plating</th>
<th>Wire Size in mm²</th>
<th>Blind Plugs</th>
</tr>
</thead>
<tbody>
<tr>
<td>34803-0211</td>
<td>CTX 064</td>
<td>Tin</td>
<td>0.30</td>
<td>64325-1010</td>
</tr>
<tr>
<td>34803-0212</td>
<td></td>
<td></td>
<td>0.50 - 0.85</td>
<td>64325-1010</td>
</tr>
<tr>
<td>34803-0111</td>
<td>CTX 150</td>
<td></td>
<td>0.50</td>
<td>64325-1023</td>
</tr>
<tr>
<td>34803-0112</td>
<td></td>
<td></td>
<td>0.75 - 1.25</td>
<td>64325-1023</td>
</tr>
<tr>
<td>34803-0113</td>
<td></td>
<td></td>
<td>1.25 - 2.00</td>
<td>64325-1023</td>
</tr>
</tbody>
</table>

www.molex.com/link/cmx.html