CMC Connector System

A sealed, high density and modular connection system for transportation industry
The CMC connector family from Molex is a sealed, high-density connection system developed for the transportation industry. It is a cost-effective, modular, hybrid system that fits with various headers.

Standard version CMC hybrid connectors hold two different terminal sizes, 0.635mm (.025") and 1.50mm (.059"). Power version CMC hybrid connectors hold three different terminal sizes, 0.635mm (.025"), 1.50mm (.059") and 2.80mm (.110"). Both connector versions run at operating temperatures between -40 and +125°C.

**Features and Benefits**

- High performing sealed connection system using matte seal technology for CP 0.635mm (.025") and 1.50mm (.059") terminals and using single wire seal (SWS) technology for CP 2.80mm (.110") terminals
- High density system due to compact connector design and fine pitch size of 2.54mm (.100")
- Hybrid connection system using 3 different terminals sizes CP 0.635mm, CP 1.50mm and CP 2.80mm terminals
- Modular connector system with a choice of different circuit sizes, such as: 22, 24, 28, 32, 36, 48 and 53
- System offers several colour codings and mechanical polarization
- Can perform in sealed applications where IPx9K rating and 500mbar watertightness are required
- Requires reduced space on customer printed circuit boards (PCB) or engine compartments
- Supports low, medium and high current applications from 2.5A up to 21A to perform in harsh environments and high conductivity applications
- Cost effective system; uses same connector type for different harness size needs
- Reduces cycle time during harness assembly due to easy visual installation and avoids mis-mating of the headers and connectors

**Markets and Applications**

CMC can be used in the following markets: cars, trucks, busses, agricultural equipment, motorcycle or marine.

This wire-to-board application can run on Powertrain applications such as Engine Control Units, Gear Boxes, Suspension Controllers but also on Body Electronics like Junction Box, Lightning Control Systems or Electrical Doors.
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<table>
<thead>
<tr>
<th>Circuits</th>
<th>Part No.</th>
<th>Description</th>
<th>Color (Keying)</th>
<th>Wire Output</th>
<th>Matte Seal</th>
<th>Mats with</th>
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### Single Wire Seals

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<th>Color</th>
<th>Mates with</th>
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<tr>
<td>64325-1162</td>
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<td>CMC CP 2.80mm terminal</td>
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### Blind Plugs

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<td>64325-1039</td>
<td>CMC Blind Plug for CP terminal cavity 1.50mm</td>
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### Terminals

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### CMC Hybrid Header Family - Part Number overview list

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<td>36638-0013</td>
<td>64320-2211 or 64320-3211</td>
<td>36-circuit CMC header (Signal pins in all 1.27µ)</td>
<td>30</td>
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<td>48-circuit CMC header</td>
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<td>64320-1311 or 64320-3311</td>
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<td>53</td>
<td>98997-1002</td>
<td>64321-1011 or 64321-2011</td>
<td>55-circuit Header</td>
<td>40</td>
<td>8</td>
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<td>Solder pin</td>
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<td>36638-0001</td>
<td>64320-2219 or 64320-3211</td>
<td>72-circuit Header (60 + 12)</td>
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<td>509225-0801</td>
<td>64320-1319 or 64320-3311</td>
<td>80-circuit Header (48 + 32)</td>
<td>64</td>
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<tr>
<td>96</td>
<td>36638-0011</td>
<td>64320-1319 or 64320-3311</td>
<td>96-circuit Header (48 + 48)</td>
<td>80</td>
<td>16</td>
<td>0</td>
<td></td>
<td></td>
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<tr>
<td>112</td>
<td>64333-0100</td>
<td>64319-2211 or 64320-3311 or 64319-1218</td>
<td>112-circuit Header (32 + 48 + 32)</td>
<td>88</td>
<td>24</td>
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<tr>
<td>154</td>
<td>34763-0001</td>
<td>64321-2011 and 64321-2019 and 64320-1318</td>
<td>154-circuit Header (48 + 53 + 53)</td>
<td>120</td>
<td>24</td>
<td>10</td>
<td></td>
<td>Compliant pin EON style</td>
</tr>
</tbody>
</table>
CMC Hybrid Connector Application Examples

CMC 48-circuit header, 36638 series
Mating to CMC 48-circuit connector, 64320 series,
used for LPG application (LPG = Liquid Power Gas)

CMC 80-circuit header, custom design
Mating to CMC 32- and 48-circuit connector, 64319 and 64320 series,
used for Gear Box application

CMC 28-circuit headers, custom design
Mating to CMC 28-circuit connectors, 64318 series,
used for Fuse Box application

CMC 48-circuit header, 500762 series
Mating to CMC 48-circuit connector, 64320 series,
used for Engine Control Unit

CMC 154-circuit header in compliant pin, 34763 series
Mating to CMC 48-, 53- circuit connector, 64320 and 64321 series,
used for Engine Control Unit
## Features and Benefits

- Small connector size, same size as 32-circuit 64319 series
- 2 x CP 2.80mm (.110") power terminals and 20 x CP 0.635mm (.025") signal pins
- Matte-seal technology used for CP 0.635mm (.025") signal contacts
- Single wire-seal technology used for CP 2.80mm (.110")
- Blind plugs for unused circuits
- Perimeter seal
- Color coding
- Audible 'click' during locking
- Requires small space in the application
- Supports high-current applications but as well applications requiring high number of signal pins
- High-performance sealing due to seal cavity design using several sealing lips
- Secure and reliable sealing for power terminals
- Secure sealing system when flexibility is required for unused cavities with a standard backplate
- Secures sealing between the connector and mating header
- Easy visual installation
- Ensures connector and header are mated securely

## Reference Information

Product Specification: PS-64326-001
Application Specification: AS-64326-001
Sales Drawing: SD-64326-001

## Mechanical

- Contact Insertion Force:
  - CP 0.635mm (.025") terminal: 12.00N max
  - CP 2.80mm (.110") terminal: 25.00N max
- Contact Retention to Housing:
  - CP 0.635mm (.025") terminal: 60.00N min
  - CP 2.80mm (.110") terminal: 100.00N min
- Dielectric Withstanding Voltage:
  - No breakdown
- Insulation Resistance:
  - 100 Megohms min

## Electrical

- Voltage (max.): 250V AC
- Current (max.):
  - CP 0.635mm (.025") terminals - max 4.5A
  - CP 2.80mm (.110") terminals - max 26.0A

### Current (max.): CP 0.635mm (.025") terminals - max 4.5A

- (0.75mm² wire)*
- (5.00mm² wire)*

### Current (max.): CP 2.80mm (.110") terminals - max 26.0A

- (5.00mm² wire)*

* current tested on a fully loaded connector, current for temperature increase of 40°C

## Physical

- Housing: PBT Polyester, Class UL-V0, Glass-filled
- Contact: See details in SD-64324-001
- Contact: See details in SD-64322-001
- Operating Temperature: -40 to +125°C

### Dimensions

- Small connector size, same size as 32-circuit 64319 series
- 2 x CP 2.80mm (.110") power terminals and 20 x CP 0.635mm (.025") signal pins
- Matte-seal technology used for CP 0.635mm (.025") signal contacts
- Single wire-seal technology used for CP 2.80mm (.110")
- Blind plugs for unused circuits
- Perimeter seal
- Color coding
- Audible ‘click’ during locking
- Requires small space in the application
- Supports high-current applications but as well applications requiring high number of signal pins
- High-performance sealing due to seal cavity design using several sealing lips
- Secure and reliable sealing for power terminals
- Secure sealing system when flexibility is required for unused cavities with a standard backplate
- Secures sealing between the connector and mating header
- Easy visual installation
- Ensures connector and header are mated securely

## Connectors

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Color Key Coding</th>
<th>Wire Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>64326-1001</td>
<td>Black</td>
<td>Right</td>
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<tr>
<td>64326-1005</td>
<td>Brown</td>
<td></td>
</tr>
<tr>
<td>64326-1009</td>
<td>Blue</td>
<td></td>
</tr>
<tr>
<td>64326-1002</td>
<td>Black</td>
<td>Left</td>
</tr>
<tr>
<td>64326-1006</td>
<td>Brown</td>
<td></td>
</tr>
<tr>
<td>64326-1010</td>
<td>Blue</td>
<td></td>
</tr>
</tbody>
</table>

## Wire Cap

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Circuits</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>64319-1201</td>
<td>32</td>
<td>Black</td>
</tr>
</tbody>
</table>

## Blind Plug

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Terminal Width</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>64325-1010</td>
<td>0.635mm (.025&quot;)</td>
<td>White</td>
</tr>
<tr>
<td>64325-1023</td>
<td>1.50mm (.059&quot;)</td>
<td>Orange</td>
</tr>
<tr>
<td>64325-1091</td>
<td>2.80mm (.110&quot;)</td>
<td>Black</td>
</tr>
</tbody>
</table>

## Single Wire Seals

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>64325-1162</td>
<td>For cable 0.30mm to 0.50mm</td>
<td>Red</td>
</tr>
<tr>
<td>64325-1175</td>
<td>For cable 0.30mm to 0.50mm</td>
<td>Green</td>
</tr>
<tr>
<td>64325-1188</td>
<td>For cable 0.30mm to 0.50mm</td>
<td>Gray</td>
</tr>
<tr>
<td>64325-1196</td>
<td>For cable 0.30mm to 0.50mm</td>
<td>Blue</td>
</tr>
</tbody>
</table>
2.54mm (.100")
3.05mm (.118")
6.75mm (.266") Pitch
Wire-to-Board
CMC Power Hybrid Connector

Wire Cap, Plug and Single Wire Seals

64318
28-Circuit Receptacle
Left and right wire output

Features and Benefits
- 3 different color codings
- Mechanical polarization
- Audible ‘click’ during locking
- 5 x CP 2.80mm (.110") power terminals
- Matte seal technology used for CP 0.635mm (.025") and 1.50mm (.059") terminals
- Single wire-seal technology used for CP 2.80mm (.110") terminals
- Blind plugs for unused circuits
- Easy visual installation
- Avoids mis-mating
- Ensures connector and header are mated securely
- Support high-current applications
- High-performing sealing due to seal cavity design using several sealing lips
- Secure and reliable seating for CP 2.80mm (.110") terminals
- Secure sealing system when flexibility is required for unused cavities with a standard backplate

Contact Resistance:
CP 0.635mm (.025"): 8 milliohms max.
CP 1.50mm (.059"): 4 milliohms max.
CP 2.80mm (.110"): 3 milliohms max.

Dielectric Withstanding Voltage:
1000V AC for 1 minute

Insulation Resistance:
100 Megohms min.

Mechanical
Contact Insertion Force:
CP 0.635mm (.025"): 12.00N max.
CP 1.50mm (.059"): 20.00N max.
CP 2.80mm (.110"): 25.00N max.

Contact Retention to Housing:
CP 0.635mm (.025"): 60.00N min.
CP 1.50mm (.059"): 100.00N min.
CP 2.80mm (.110"): 100.00N min

Wire Pull-Out Force: min. 100.00 N

Insertion Force to PCB: N/A

Mating Force: 70.00N max
Unmating Force: 70.00N max
Normal Force: N/A

Durability: 20 mating cycles

Physical
Housing: PBT Glass-filled
Operating temperature: -40 to +125°C

Connectors

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Circuits</th>
<th>Color Key Coding</th>
<th>Wire Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>64318-3011</td>
<td>28</td>
<td>Black</td>
<td>Right</td>
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<tr>
<td>64318-3018</td>
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<td>Grey</td>
<td></td>
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<tr>
<td>64318-3019</td>
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<td>Brown</td>
<td></td>
</tr>
<tr>
<td>64318-1011</td>
<td></td>
<td>Black</td>
<td>Left</td>
</tr>
<tr>
<td>64318-1018</td>
<td></td>
<td>Grey</td>
<td></td>
</tr>
<tr>
<td>64318-1019</td>
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<td>Brown</td>
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</tbody>
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Blind Plug

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Terminal Width</th>
<th>Color</th>
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<tbody>
<tr>
<td>64325-1010</td>
<td>0.635mm (.025&quot;)</td>
<td>White</td>
</tr>
<tr>
<td>64325-1023</td>
<td>1.50mm (.059&quot;)</td>
<td>Orange</td>
</tr>
<tr>
<td>64325-1091</td>
<td>2.80mm (.110&quot;)</td>
<td>Black</td>
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</table>

Wire Cap

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Circuits</th>
<th>Color</th>
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</thead>
<tbody>
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<td>Black</td>
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Single Wire Seals

<table>
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<th>Order No.</th>
<th>Description</th>
<th>Color</th>
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<tbody>
<tr>
<td>64325-1162</td>
<td>For cable 1.29mm to 2.06mm</td>
<td>Red</td>
</tr>
<tr>
<td>64325-1175</td>
<td>For cable 2.06mm to 2.80mm</td>
<td>Green</td>
</tr>
<tr>
<td>64325-1188</td>
<td>For cable 2.80mm to 3.50mm</td>
<td>Grey</td>
</tr>
<tr>
<td>64325-1196</td>
<td>For cable 3.50mm to 4.21mm</td>
<td>Blue</td>
</tr>
</tbody>
</table>
2.54mm (.100”) 3.70mm (.146”) Pitch Wire-to-Board CMC Hybrid Connector

Wire Cap and Plug

64319
32-Circuit Receptacle
Left and right wire output

References Information
Product Specification: PS-64319-001
Application Specification: AS-64319-001
Sales Drawing: SD-64319-001

Mates with:
32-ckt CMC Header – 1 pocket
64334-0100
64334-0300
80-ckt CMC Header – 2 pocket
502225-0001
112-ckt CMC Header – 3 pocket
64333-0100

Use with:
Terminal: 64322 CP 0.635mm (.025”)
64323 CP 1.50mm (.059”)
Plug: 64325-1010 Plug 0.635mm (.025”) cavity
64325-1023 Plug 1.50mm (.059”) cavity
Wire Cap: 64319-1201 CMC Wire Cap for 32 circuit CMC Receptacle

Designed in: Millimeters

Electrical
Voltage: 250V AC

Current: * 6.0A for CP 0.635mm (.025”) terminal (0.75mm² wire) 12.0A for CP 1.50mm (.059”) terminal (2.0mm² wire)

* current tested on a 5 terminals loaded connector; current for temperature increase of 40°C

Features and Benefits
- 4 different color codings
- Mechanical polarization
- Audible ‘click’ during locking
- 24 x CP 0.635mm (.025”) terminals
- Matte seal technology used for CP 0.635mm (.025”) and 1.50mm (.059”) terminals
- Blind plugs for unused circuits
- Easy visual installation
- Avoids mis-mating
- Ensures connector and header are mated securely
- Support low and medium current applications
- High-performing sealing due to seal cavity design using several sealing lips
- Secure sealing system when flexibility is required for unused cavities with a standard backplate

Contact Resistance:
CP 0.635mm (.025”): 8 milliohms max.
CP 1.50mm (.059”): 4 milliohms max.

Dielectric Withstanding Voltage:
1000V AC for 1 minute

Insulation Resistance:
100 Megohms min.

Mechanical
Contact Insertion Force:
CP 0.635mm (.025”): 12.00N max.
CP 1.50mm (.059”): 25.00N max.

Contact Retention to Housing:
CP 0.635mm (.025”): 60.00N min.
CP 1.50mm (.059”): 100.00N min.

Wire Pull-Out Force: min. 100.00 N

Insertion Force to PCB: N/A
Mating Force: 70.00N max
Unmating Force: 70.00N max
Normal Force: N/A

Durability: 20 mating cycles

Physical
Housing: PBT Glass-filled
Operating Temperature: -40 to +125°C

Order No. Circuits Color Key Coding Wire Output
64319-3211 32 Black
64319-3216 Blue
64319-3218 Grey
64319-3219 Brown
64319-1211 Black Left
64319-1216 Blue
64319-1218 Grey
64319-1219 Brown
64319-2211 Black – Row 1 closed Left
64319-2216 Blue – Row 4 closed Left
64319-2218 Grey – Row 1 closed Right
64319-2219 Black
64319-4211 Black – Row 1 closed Right
64319-4216 Blue – Row 4 closed Right
64319-4218 Grey

Connectors

Blind Plug

Order No. Terminal Width Color
64325-1010 0.635mm (.025”) White
64325-1023 1.50mm (.059”) Orange

Wire Cap

Order No. Circuits Color
64319-1201 32 Black
**Features and Benefits**

- 4 different color codings
- Mechanical polarization
- Audible ‘click’ during locking
- 24 x CP 0.635mm (.025") terminals
- 8 x CP 1.50mm (.059") terminals
- Matte seal technology used for CP 0.635mm (.025") and 1.50mm (.059") terminals
- Blind plugs for unused circuits
- Easy visual installation
- Avoids mis-mating
- Ensures connector and header are mated securely
- Support low and medium current applications
- High-performing sealing due to seal cavity design using several sealing lips
- Secure sealing system when flexibility is required for unused cavities with a standard backplate

**Contact Resistance:**

- CP 0.635mm (.025") : 8 milliohms max.
- CP 1.50mm (.059") : 4 milliohms max.

**Dielectric Withstanding Voltage:**

- 1000V AC for 1 minute

**Insulation Resistance:**

- 100 Megohms min.

**Mechanical**

- **Contact Insertion Force:**
  - CP 0.635mm (.025") : 12.00N max.
  - CP 1.50mm (.059") : 25.00N max.
- **Contact Retention to Housing:**
  - CP 0.635mm (.025") : 60.00N min.
  - CP 1.50mm (.059") : 100.00N min.
- **Wire Pull-Out Force**: min. 100.00 N
- **Insertion Force to PCB**: N/A
- **Mating Force**: 70.00N max
- **Unmating Force**: 70.00N max
- **Normal Force**: N/A
- **Durability**: 20 mating cycles

**Physical**

- **Housing**: PBT Glass-filled
- **Operating Temperature**: -40 to +125°C

### Connector Specifications

**Order No.** | **Circuits** | **Color Key Coding** | **Wire Output**
--- | --- | --- | ---
64320-3311 | 48 | Black | Right
64320-3315 | 48 | Green | Right
64320-3318 | 48 | Grey | Right
64320-3319 | 48 | Brown | Right
64320-1311 | 36 | Black | Left
64320-1315 | 36 | Green | Left
64320-1318 | 36 | Grey | Left
64320-1319 | 36 | Brown | Left
64320-2311 | 24 | Black – Row 1 closed | Left
64320-2315 | 24 | Brown – Row 1 closed | Left
64320-4311 | 24 | Black – Row 1 closed | Right
64320-4319 | 24 | Brown – Row 1 closed | Right

### Wire Cap and Plug

**Reference Information**

- **Product Specification**: PS-64319-001
- **Application Specification**: AS-64319-001
- **Sales Drawing**: SD-64320-001

**Mates with:**

- 48-ckt CMC Header - 1-pocket
  - 500762-0481
  - 36638-0002 / -0004
  - 36638-0003 / -0005
- 50-ckt CMC Header - 2-pocket
  - 502225-0501
- 112-ckt CMC Header - 3-pocket
  - 64333-0100
- 154-ckt CMC Header - 3-pocket
  - 34763-000x

**Use with:**

- **Terminal**: 64322 CP 0.635mm (.025")
  - 64323 CP 1.50mm (.059")
- **Plug**: 64325-1010 Plug 0.635mm (.025") cavity
  - 64325-1023 Plug 1.50mm (.059") cavity
- **Wire Cap**: 64320-1301 CMC Wire Cap for 48 circuit and 28 circuit CMC Receptacle

**Designed in**: Millimeters

**Electrical**

- **Voltage**: 250V AC

**Current:**

- 6.0A for CP 0.635mm (.025") terminal (0.75mm² wire)
- 12.0A for CP 1.50mm (.059") terminal (2.0mm² wire)

*Current tested on a 5 terminals loaded connector, current for temperature increase of 40°C

**Contact Resistance:**

- CP 0.635mm (.025") : 8 milliohms max.
- CP 1.50mm (.059") : 4 milliohms max.

**Dielectric Withstanding Voltage:**

- 1000V AC for 1 minute

**Insulation Resistance:**

- 100 Megohms min.

**Mechanical**

- **Contact Insertion Force:**
  - CP 0.635mm (.025") : 12.00N max.
  - CP 1.50mm (.059") : 25.00N max.
- **Contact Retention to Housing:**
  - CP 0.635mm (.025") : 60.00N min.
  - CP 1.50mm (.059") : 100.00N min.
- **Wire Pull-Out Force**: min. 100.00 N
- **Insertion Force to PCB**: N/A
- **Mating Force**: 70.00N max
- **Unmating Force**: 70.00N max
- **Normal Force**: N/A
- **Durability**: 20 mating cycles

**Physical**

- **Housing**: PBT Glass-filled
- **Operating Temperature**: -40 to +125°C

**Features and Benefits**

- Easy visual installation
- Avoids mis-mating
- Ensures connector and header are mated securely
- Support low and medium current applications
- High-performing sealing due to seal cavity design using several sealing lips
- Secure sealing system when flexibility is required for unused cavities with a standard backplate

**Contact Resistance:**

- CP 0.635mm (.025") : 8 milliohms max.
- CP 1.50mm (.059") : 4 milliohms max.

**Dielectric Withstanding Voltage:**

- 1000V AC for 1 minute

**Insulation Resistance:**

- 100 Megohms min.

**Mechanical**

- **Contact Insertion Force:**
  - CP 0.635mm (.025") : 12.00N max.
  - CP 1.50mm (.059") : 25.00N max.
- **Contact Retention to Housing:**
  - CP 0.635mm (.025") : 60.00N min.
  - CP 1.50mm (.059") : 100.00N min.
- **Wire Pull-Out Force**: min. 100.00 N
- **Insertion Force to PCB**: N/A
- **Mating Force**: 70.00N max
- **Unmating Force**: 70.00N max
- **Normal Force**: N/A
- **Durability**: 20 mating cycles

**Physical**

- **Housing**: PBT Glass-filled
- **Operating Temperature**: -40 to +125°C

---

**Connectors**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Circuits</th>
<th>Color Key Coding</th>
<th>Wire Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>64320-3311</td>
<td>48</td>
<td>Black</td>
<td>Right</td>
</tr>
<tr>
<td>64320-3315</td>
<td>48</td>
<td>Green</td>
<td>Right</td>
</tr>
<tr>
<td>64320-3318</td>
<td>48</td>
<td>Grey</td>
<td>Right</td>
</tr>
<tr>
<td>64320-3319</td>
<td>48</td>
<td>Brown</td>
<td>Right</td>
</tr>
<tr>
<td>64320-1311</td>
<td>36</td>
<td>Black</td>
<td>Left</td>
</tr>
<tr>
<td>64320-1315</td>
<td>36</td>
<td>Green</td>
<td>Left</td>
</tr>
<tr>
<td>64320-1318</td>
<td>36</td>
<td>Grey</td>
<td>Left</td>
</tr>
<tr>
<td>64320-1319</td>
<td>36</td>
<td>Brown</td>
<td>Left</td>
</tr>
<tr>
<td>64320-2311</td>
<td>24</td>
<td>Black – Row 1 closed</td>
<td>Left</td>
</tr>
<tr>
<td>64320-2315</td>
<td>24</td>
<td>Brown – Row 1 closed</td>
<td>Left</td>
</tr>
<tr>
<td>64320-4311</td>
<td>24</td>
<td>Black – Row 1 closed</td>
<td>Right</td>
</tr>
<tr>
<td>64320-4319</td>
<td>24</td>
<td>Brown – Row 1 closed</td>
<td>Right</td>
</tr>
</tbody>
</table>

**Blind Plug**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Terminal Width</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>64325-1010</td>
<td>0.635mm (.025&quot;)</td>
<td>White</td>
</tr>
<tr>
<td>64325-1023</td>
<td>1.50mm (.059&quot;)</td>
<td>Orange</td>
</tr>
</tbody>
</table>

**Wire Cap**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Circuits</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>64320-1301</td>
<td>48</td>
<td>Black</td>
</tr>
</tbody>
</table>
Connectors

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Circuits</th>
<th>Color Key Coding</th>
<th>Wire Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>64321-2011</td>
<td>53</td>
<td>Black</td>
<td>Right</td>
</tr>
<tr>
<td>64321-2018</td>
<td></td>
<td>Grey</td>
<td></td>
</tr>
<tr>
<td>64321-2019</td>
<td></td>
<td>Brown</td>
<td></td>
</tr>
<tr>
<td>64321-1011</td>
<td></td>
<td>Black</td>
<td>Left</td>
</tr>
<tr>
<td>64321-1018</td>
<td></td>
<td>Grey</td>
<td></td>
</tr>
<tr>
<td>64321-1019</td>
<td></td>
<td>Brown</td>
<td></td>
</tr>
</tbody>
</table>

Blind Plug

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Terminal Width</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>64325-1010</td>
<td>0.635mm (.025&quot;)</td>
<td>White</td>
</tr>
<tr>
<td>64325-1023</td>
<td>1.50mm (.059&quot;)</td>
<td>Orange</td>
</tr>
<tr>
<td>64325-1091</td>
<td>2.80mm (.110&quot;)</td>
<td>Black</td>
</tr>
</tbody>
</table>

Features and Benefits

- 3 different color codings
- Mechanical polarization
- Audible ‘click’ during locking
- 40 x CP 0.635mm (.025") terminals
- 8 x CP 1.50mm (.059") terminals
- 5 x CP 2.80mm (.110") terminals
- Matte seal technology used for CP 0.635mm (.025") and 1.50mm (.059") terminals
- Single wire-seal technology used for CP 2.80mm (.110") terminals
- Blind plugs for unused circuits
- Easy visual installation
- Avoids mis-mating
- Ensures connector and header are mated securely
- High-performing sealing due to seal cavity design using several sealing lips
- Secure and reliable sealing for CP 2.80mm (.110") terminals
- Secure sealing system when flexibility is required for unused cavities with a standard backplate
- Support low, medium and high current applications
- Blind plugs for unused circuits
- Matte seal technology used for CP 0.635mm (.025") and 1.50mm (.059") terminals
- Single wire-seal technology used for CP 2.80mm (.110") terminals
- Blind plugs for unused circuits

Wire Cap

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Circuits</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>64321-1101</td>
<td>53</td>
<td>Black</td>
</tr>
</tbody>
</table>

Single Wire Seals

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>64325-1162</td>
<td>For cable 1.29mm to 2.06mm</td>
<td>Red</td>
</tr>
<tr>
<td>64325-1175</td>
<td>For cable 2.06mm to 2.80mm</td>
<td>Orange</td>
</tr>
<tr>
<td>64325-1188</td>
<td>For cable 2.80mm to 3.50mm</td>
<td>Grey</td>
</tr>
<tr>
<td>64325-1196</td>
<td>For cable 3.50mm to 4.21mm</td>
<td>Blue</td>
</tr>
</tbody>
</table>
0.635mm (.025") Width Terminal Female Crimp CMC CP Terminal 64322

Features and Benefits
- 2 piece terminal design
- Tang locking system
- Robust design with fully protected beam
- Various ISO wire size compatibility
- Available in tin and gold plating

Reference Information
Product Specification:
  please refer to product specification of the relevant CMC connector
Crimping Specification:
  CS-64322-001
Sales Drawing:
  SD-64322-001 and SD-64322-002 for the HP version (High-Performance)
Mates with:
  CMC connector series 64318, 64319, 64320, 64321
Designed in: Millimeters

Electrical
Voltage: 250V AC
Current: 6.0A for CP 0.635mm (.025") terminal (0.75mm² wire)
  * current tested on a 5 terminals loaded connector, current for temperature increase of 40°C
Contact Resistance:
  CP 0.635mm (.025"): 8 milliohms max.
Dielectric Withstanding Voltage:
  1000V AC for 1 minute
Insulation Resistance:
  100 Megohms min.

Mechanical
Contact Insertion Force between male and female terminal:
  CP 0.635mm (.025"): 4.00N max.
Contact Insertion Force into Housing (sealed connector):
  CP 0.635mm (.025"): 12.00N min.
Wire Pull-Out Force:
  min. 100.00N for wire size of 0.50mm²
Mating / Unmating Force:
  Please refer to product specification of the relevant CMC connector the terminal is used with
Durability: 20 mating cycles

Physical
Contact: Phosphor Bronze
Plating: available in tin and gold
Insulation diameter: see table

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Width</th>
<th>Plating</th>
<th>Wire Size in mm²</th>
<th>Wire Insulation Diameter in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>64322-1019</td>
<td>0.635mm (.025&quot;)</td>
<td>Tin (Sn)</td>
<td>0.35</td>
<td>1.25 - 1.40</td>
</tr>
<tr>
<td>64322-1029</td>
<td>0.635mm (.025&quot;)</td>
<td>Tin (Sn)</td>
<td>0.75</td>
<td>1.60 - 1.90</td>
</tr>
<tr>
<td>64322-1039</td>
<td>0.635mm (.025&quot;)</td>
<td>Tin (Sn)</td>
<td>0.50</td>
<td>1.40 - 1.70</td>
</tr>
<tr>
<td>64322-1219</td>
<td>1.27µm Gold (Au)</td>
<td></td>
<td>0.35</td>
<td>1.25 - 1.40</td>
</tr>
<tr>
<td>64322-1229</td>
<td>1.27µm Gold (Au)</td>
<td></td>
<td>0.75</td>
<td>1.60 - 1.90</td>
</tr>
<tr>
<td>64322-1239</td>
<td>1.27µm Gold (Au)</td>
<td></td>
<td>0.50</td>
<td>1.40 - 1.70</td>
</tr>
<tr>
<td>64322-1339</td>
<td>0.635mm (.025&quot;) HP</td>
<td></td>
<td>0.35</td>
<td>1.25 - 1.40</td>
</tr>
<tr>
<td>64322-1349</td>
<td>0.635mm (.025&quot;) HP</td>
<td></td>
<td>0.50</td>
<td>1.40 - 1.70</td>
</tr>
</tbody>
</table>

www.molex.com
1.50mm (.059”) Width
Terminal
Female Crimp
CMC CP Terminal
64323

Features and Benefits

- 2 piece terminal design
- Tang locking system
- Robust design with fully protected beam
- Various ISO wire size compatibility
- Available in tin and gold plating

Reference Information

Product Specification:
please refer to product specification of the relevant CMC connector

Crimping Specification:
CS-64323-001

Sales Drawing:
SD-64323-001

Mates with:
CMC connector series 64318, 64319, 64320, 64321

Designed in: Millimeters

Electrical

Voltage: 250V AC

Current: *
12.0A for CP 1.50mm (.059”) terminal (2.00mm² wire)

* current tested on a 5 terminals loaded connector; current for temperature increase of 40°C

Contact Resistance:
CP 1.50mm (.059”): 4 milliohms max.

Dielectric Withstanding Voltage:
1000V AC for 1 minute

Insulation Resistance:
100 Megohms min.

Mechanical

Contact Insertion Force between male and female terminal:
CP 1.50mm (.059”): 5.50N max.

Contact Insertion Force into Housing (sealed connector):
CP 1.50mm (.059”): 25.00N min.

Wire Pull-Out Force:
min. 100.00N for wire size of 0.50mm²

Mating / Unmating Force:
Please refer to Product Specification of the relevant CMC connector the terminal is used with

Durability: 20 mating cycles

Physical

Contact: Phosphor Bronze
Plating: available in tin and gold
Insulation diameter: see table

<table>
<thead>
<tr>
<th>Terminals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order No.</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>64323-1029</td>
</tr>
<tr>
<td>64323-1039</td>
</tr>
<tr>
<td>64323-1219</td>
</tr>
</tbody>
</table>

Contact Resistance:
CP 1.50mm (.059”): 4 milliohms max.

Dielectric Withstanding Voltage:
1000V AC for 1 minute

Insulation Resistance:
100 Megohms min.

Mechanical

Contact Insertion Force between male and female terminal:
CP 1.50mm (.059”): 5.50N max.

Contact Insertion Force into Housing (sealed connector):
CP 1.50mm (.059”): 25.00N min.

Wire Pull-Out Force:
min. 100.00N for wire size of 0.50mm²

Mating / Unmating Force:
Please refer to Product Specification of the relevant CMC connector the terminal is used with

Durability: 20 mating cycles

Physical

Contact: Phosphor Bronze
Plating: available in tin and gold
Insulation diameter: see table

Order No. | Width | Plating | Wire Size in mm² | Wire Insulation Diameter in mm |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>64323-1029</td>
<td>1.50mm (.059”)</td>
<td>Tin (Sn)</td>
<td>0.50 to 1.00</td>
<td>1.40 – 2.15</td>
</tr>
<tr>
<td>64323-1039</td>
<td>&gt; 1.00 to 2.00</td>
<td>2.10 – 2.80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>64323-1219</td>
<td>1.27µm Gold (Au)</td>
<td>0.50 to 1.00</td>
<td>1.40 – 2.15</td>
<td></td>
</tr>
</tbody>
</table>
**2.80mm (.110”) Width Terminal**

**Female Crimp**

**CMC CP Terminal**

**Single Wire Seal**

64324

64325

---

### Reference Information

- **Product Specification:** please refer to product specification of the relevant CMC connector
- **Crimping Specification:** CS-64324-001
- **Sales Drawing:** SD-64324-001

### Mates with:

CMC connector series 64318, 64321

### Used with:

- Single Wire Seals: 64325-1162, 64325-1175, 64325-1188, 64325-1196

### Designed in: Millimeters

---

### CP Terminals

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Width</th>
<th>Plating</th>
<th>Wire Size in mm²</th>
<th>Wire Insulation Diameter in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>64224-1019</td>
<td>2.80mm (.110”)</td>
<td>Tin (Sn)</td>
<td>&gt; 3.00 to 5.00</td>
<td>3.40 – 4.00</td>
</tr>
<tr>
<td>64324-1029</td>
<td></td>
<td></td>
<td>&gt; 2.80 to 3.00</td>
<td>2.65 – 3.65</td>
</tr>
<tr>
<td>64324-1039</td>
<td></td>
<td></td>
<td>&gt; 1.00 to 2.00</td>
<td>2.10 – 2.80</td>
</tr>
<tr>
<td>64224-1049</td>
<td></td>
<td></td>
<td>0.50 to 1.00</td>
<td>1.40 – 2.15</td>
</tr>
<tr>
<td>64224-1119</td>
<td>1.37µm Gold (Au)</td>
<td></td>
<td>&gt; 3.00 to 5.00</td>
<td>3.40 – 4.00</td>
</tr>
<tr>
<td>64224-1129</td>
<td></td>
<td></td>
<td>&gt; 2.00 to 3.00</td>
<td>2.65 – 3.65</td>
</tr>
<tr>
<td>64224-1139</td>
<td></td>
<td></td>
<td>&gt; 1.00 to 2.00</td>
<td>2.10 – 2.80</td>
</tr>
<tr>
<td>64224-1149</td>
<td></td>
<td></td>
<td>0.50 to 1.00</td>
<td>1.40 – 2.15</td>
</tr>
</tbody>
</table>

### Single Wire Seals

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Description</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>64225-1162</td>
<td>For cable 1.29mm to 2.06mm</td>
<td>Red</td>
</tr>
<tr>
<td>64225-1175</td>
<td>For cable 2.03mm to 2.80mm</td>
<td>Green</td>
</tr>
<tr>
<td>64225-1188</td>
<td>For cable 2.80mm to 3.50mm</td>
<td>Gray</td>
</tr>
<tr>
<td>64225-1196</td>
<td>For cable 3.50mm to 4.21mm</td>
<td>Blue</td>
</tr>
</tbody>
</table>

---

### Features and Benefits

- 2 piece terminal design
- Tang locking system
- Robust design with fully protected beam
- Various ISO wire size compatibility
- Available in tin and gold plating

### Contact Resistance:

CP 2.80mm (.110”): 3 milliohms max.

### Dielectric Withstanding Voltage:

1000V AC for 1 minute

### Insulation Resistance:

100 Megohms min.

### Mechanical

- Contact Insertion Force between male and female terminal: CP 2.80mm (.110”): 7.00N max.
- Contact Insertion Force into Housing (sealed connector): CP 2.80mm (.110”): 25.00N min
- Wire Pull-Out Force: min. 100.00N for wire size of 0.50mm²
- Mating / Unmating Force:
  - Please refer to product specification of the relevant CMC connector the terminal is used with
- Durability: 20 mating cycles

### Electrical

- **Voltage:** 250V AC
- **Current:** *21.0A for CP 2.80mm (.110”) terminals (5.00mm²)*
  - *current tested on a fully loaded connector, current for temperature increase of 40°C*

### Physical

- **Contact:** Phosphor Bronze
- **Plating:** available in tin and gold
- **Insulation diameter:** see table
Blind Plug
CMC Hybrid Connector
CMC Blind Plug
For CP terminal cavity 0.635mm (.025”)
CP terminal cavity 1.50mm (.059”)
CP terminal cavity 2.80mm (.110”)
64325

Features and Benefits

- CMC Blind plugs secure a high performing CMC sealing system, when flexibility is required for unused cavities

Reference Information

Product Specification:
please refer to product specification of the relevant CMC connector

Application Specification:
please refer to application specification of the relevant CMC connector

Sales Drawing: SD-64325-001 for CP 0.635mm (.025”) cavity
SD-64325-002 for CP 1.50mm (.059”) cavity
SD-64325-004 for CP 2.80mm (.110”) cavity

Mates with: CMC Plug 0.635mm (.025”) and CMC Plug 1.50mm (.059”):
with CMC connector series 64318, 64319, 64320, 64321
CMC Plug 2.80mm (.110”):
with CMC connector series 64318, 64321

Designed in: Millimeters

Electrical
Voltage: N/A
Current: N/A
Contact Resistance: N/A
Dielectric Withstanding Voltage: N/A
Insulation Resistance: N/A

Mechanical
Contact Insertion Force: N/A
Contact Retention to Housing: N/A
Wire Pull-Out Force: N/A
Insertion Force to PCB: N/A
Mating Force: N/A
Unmating Force: N/A
Normal Force: N/A
Durability: N/A

Physical
CMC CP Plug 0.635mm (.025“):
Polyamid - White color
CMC CP Plug 1.50mm (.059“):
Polyamid - Orange color
CMC CP Plug 2.80mm (.110“):
Rubber - Black color

Operating Temperature:
-40 to +125°C

Blind Plug
CMC Hybrid Connector
CMC Blind Plug
For CP terminal cavity 0.635mm (.025”) CP terminal cavity 1.50mm (.059”) CP terminal cavity 2.80mm (.110”) 64325

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Terminal Width</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>64325-1010</td>
<td>0.635mm (.025”)</td>
<td>White</td>
</tr>
<tr>
<td>64325-1023</td>
<td>1.50mm (.059”)</td>
<td>Orange</td>
</tr>
<tr>
<td>64325-1091</td>
<td>2.80mm (.110”)</td>
<td>Black</td>
</tr>
</tbody>
</table>
2.54mm (.100"")
3.70mm (.146"") Pitch
Wire-to-Board
1 pocket
CMC Header

64334
32-circuit

Features and Benefits
- 32-circuit, single-pocket, right-angle header
- Terminals mate with CP 0.635mm (.025") and CP 1.50mm (.059") solder-mount terminals
- Designed to CMC standard interface
- Housing made out of high flammability V0 plastic material
- Plastic material is suitable for epoxy adhesion
- Plastic material is hydrolytically stable
- Headers are off shelf available

Reference Information
Product Specification:
please refer to product specification of the relevant mating CMC connector

Packaging: Trays in carton box
Mates With: 64319-3211 32ckt Connector black
64319-3219 32ckt Connector brown

Use With: 64325-1010 Blind Plug 0.635mm
64325-1023 Blind Plug 1.50mm
64319-1201 32ckt Wire Cap
64322 series CP Terminals 0.60mm (.025")
64323 series CP Terminals 1.50mm (.059")

Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

Electrical
Voltage: 250V AC
Current: *
CP 0.635mm (.025") terminals — max 6.0A (0.75mm² wire)*
CP 1.50mm (.059") terminals — max 12.0A (2.00mm² wire)*

Mechanical
Contact Insertion Force: 0.635mm (.025") terminal: 12.00N max, 1.50mm (.059") terminal: 25.00N max
Contact Retention to Housing: 0.635mm (.025") terminal: 60.00N min, 1.50mm (.059") terminal: 100.00N min
Wire Pull-Out Force: min 100.00N
Mating Force: 70.00N max
Unmating Force: 70.00N max
Durability: 20 mating cycles

Physical
Housing: PBT, Glass-filled
Lead-Free: Yes
Operating Temperature: -40 to +125°C

Contact Resistance:
0.635mm (.025") terminals: 8 milliohms max.
1.50mm (.059") terminals: 4 milliohms max.

Dielectric Withstanding Voltage:
1000V AC for 1 minute

Insulation Resistance:
100 Megohms min.

Order No. Circuits Mates with Pin Count 0.63mm Pin Count 1.50mm Terminal Type
64334-0100 32 64319-3211 24 8 Solder pin
64334-0300

* current tested on a 5 terminals loaded connector, current for temperature increase of 40°C

Header

www.molex.com
2.54mm (.100”)  
3.70mm (.146”) Pitch  
Wire-to-Board  
1 pocket  
CMC Header

500762-0481  
48-circuit

Features and Benefits
- 48-circuit, 1-pocket, right-angle header
- Compact design of CMC header
- Terminals mate with CP 0.635mm (.025”) and CP 1.50mm (.059”) solder-mount terminals
- Housing made out of high flammability V0 plastic material
- Plastic material is suitable for epoxy adhesion
- Plastic material is hydrolytically stable
- Headers are off shelf available
- Mates with CMC receptacle 48-circuit connector
- Needs less space
- For low- and medium-current applications
- Achieves OEM specification requirements
- Allows glueing process at Engine Control Unit manufacturer
- Suitable for sealed applications
- No custom tooling costs

Reference Information
Product Specification: Please refer to product specification of the relevant mating CMC connector.

Packaging: Trays in carton box

Mates With: 64320-1311 or 64320-3311

Use With:
- On Connector side: 64325-1010 Blind Plug 0.635mm
- 64325-1023 Blind Plug 1.50mm
- 64320-1301 48ckt Wire Cap
- 64322 series CP Terminals 0.60mm (.025”)
- 64323 series CP Terminals 1.50mm (.059“)

Designed In: Millimeters  
RoHS: Yes  
Halogen Free: Yes

Electrical
Voltage: 250V AC
Current: *CP 0.635mm (.025”) terminals — max 6.0A (0.75mm² wire)**  
CP 1.50mm (.059”) terminals — max 12.0A (2.00mm² wire)**

* current tested on a 5 terminals loaded connector; current for temperature increase of 40°C

Contact Resistance: 0.635mm (.025”) terminals: 8 milliohms max.  
1.50mm (.059”) terminals: 4 milliohms max.

Dielectric Withstanding Voltage: 1000V AC for 1 minute

Insulation Resistance: 100 Megohms min.

Mechanical
Contact Insertion Force: 0.635mm (.025”) terminal: 12.00N max  
1.50mm (.059”) terminal: 25.00N max

Contact Retention to Housing: 0.635mm (.025”) terminal: 60.00N min.  
1.50mm (.059”) terminal: 100.00N min

Wire Pull-Out Force: min 100.00N

Mating Force: 70.00N max.  
Unmating Force: 70.00N max.

Durability: 20 mating cycles

Physical
Housing: PBT, Glass-filled  
Lead-Free: Yes

Operating Temperature: -40 to +125°C

Order No. Circuits  Mates with  Pin Count 0.63mm  Pin Count 1.50mm  Terminal Type
500762-0481 48 64320-1311 or 64320-3311 40 8 Solder pin
2.54mm (.100")
3.50mm (.138")
7.00mm (.276") Pitch
Wire-to-Board
1 pocket
CMC Header

98997-1002
53-circuit

Features and Benefits
- 53-circuit, 1-pocket, right-angle header
- Offers a power connection using 2.80mm tabs
- Terminals mate with CP 0.635mm (.025"), CP 1.50mm (.059") and CP 2.80mm (.110") solder-mount terminals
- Plastic material is suitable for epoxy adhesion
- Headers are off shelf available

Reference Information
Product Specification:
Please refer to product specification of the relevant mating CMC connector.

Packaging: Trays in carton box

Mates With:
64321-1011 or 64321-2011

Use With:
On Connector side: 64325-1010 Blind Plug 0.635mm
64325-1023 Blind Plug 1.50mm
64325-1091 Blind Plug 2.80mm
64321-1101 53ckt Wire Cap
64322 series
CP Terminals 0.60mm (.025")
64323 series
CP Terminals 1.50mm (.059")
64324 series
CP Terminals 2.80mm (.110")

Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

Electrical
Voltage: 250V AC

Current: *
2.5A for CP 0.635mm (.025") terminal (0.75mm² wire)
12.0A for CP 1.50mm (.059") terminal (2.0mm² wire)
21.0A for CP 2.80mm (.110") terminals (5.00mm²)

Contact Resistance:
CP 0.635mm (.025"): 8 milliohms max.
CP 1.50mm (.059"): 4 milliohms max.
CP 2.80mm (.110") : 3 milliohms max.

Dielectric Withstanding Voltage:
1000V AC for 1 minute

Insulation Resistance:
100 Megohms min.

Mechanical
Contact Insertion Force:
CP 0.635mm (.025") : 12.00N max.
CP 1.50mm (.059") : 20.00N max.
CP 2.80mm (.110") : 25.00N max.

Contact Retention to Housing:
CP 0.635mm (.025") : 60.00N min.
CP 1.50mm (.059") : 100.00N min.
CP 2.80mm (.110") : 100.00N min.

Wire Pull-Out Force: min. 100.00N

Insertion Force to PCB: N/A
Mating Force: 80.00N max
Unmating Force: 80.00N max
Normal Force: N/A

Durability: 20 mating cycles

Physical
Housing: PBT Glass-filled
Operating Temperature: -40 to +125°C

Header

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Circuits</th>
<th>Mates with</th>
<th>Pin Count 0.63mm</th>
<th>Pin Count 1.50mm</th>
<th>Pin Count 2.80mm</th>
<th>Terminal Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>98997-1002</td>
<td>53</td>
<td>64321-1011 or 64321-2011</td>
<td>40</td>
<td>8</td>
<td>5</td>
<td>Solder pin</td>
</tr>
</tbody>
</table>
2.54mm (0.100")
3.70mm (0.146") Pitch
Wire-to-Board
2 pocket
CMC Header

502225-0801
80-circuit

Features and Benefits
- 80-circuit, 2-pocket, right-angle header
- Compact design of CMC header
- Terminals mate with CP 0.635mm (.025") and CP 1.50mm (.059") solder-mount terminals
- Housing made out of high flammability V0 plastic material
- Plastic material is suitable for epoxy adhesion
- Plastic material is hydrolytically stable
- Headers are off shelf available

Reference Information
Product Specification: Please refer to product specification of the relevant mating CMC connector.

Packaging: Trays in carton box
Mates With: 64320-1319 and 64319-3211
Use With:
On Connector side: 64325-1010 Blind Plug 0.635mm 64325-1023 Blind Plug 1.50mm
64319-1201 32ckt Wire Cap 64320-1301 48ckt Wire Cap
64322 series CP Terminals 0.60mm (.025")
64323 series CP Terminals 1.50mm (.059")

Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

Electrical
Voltage: 250V AC
Current: *
CP 0.635mm (.025") terminals — max 6.0A (0.75mm² wire)*
CP 1.50mm (.059") terminals — max 12.0A (2.00mm² wire)*

* current tested on a 5 terminals loaded connector; current for temperature increase of 40°C

Physical
Housing: PBT, Glass-filled
Load-Free: Yes
Operating Temperature: -40 to +125°C

Header

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Circuits</th>
<th>Mates With</th>
<th>Pin Count 0.63mm</th>
<th>Pin Count 1.50mm</th>
<th>Terminal Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>502225-0801</td>
<td>80 (32 + 48)</td>
<td>64320-1319 and 64319-3211</td>
<td>64</td>
<td>16</td>
<td>Solder pin</td>
</tr>
</tbody>
</table>

Contact Resistance:
- 0.635mm (.025") terminals: 8 milliohms max.
- 1.50mm (.059") terminals: 4 milliohms max.

Dielectric Withstanding Voltage:
- 1000V AC for 1 minute

Insulation Resistance:
- 100 Megohms min.

Mechanical
Contact Insertion Force:
- 0.635mm (.025") terminal: 12.00N max
- 1.50mm (.059") terminal: 25.00N max

Contact Retention to Housing:
- 0.635mm (.025") terminal: 60.00N min
- 1.50mm (.059") terminal: 100.00N min

Wire Pull-Out Force:
- min 100.00N

Mating Force: 70.000N max.
Unmating Force: 70.000N max.

Durability: 20 mating cycles

Contact Resistance:
- 0.635mm (.025") terminals: 8 milliohms max.
- 1.50mm (.059") terminals: 4 milliohms max.
2.54mm (.100")
3.70mm (.146") Pitch
Wire-to-Board
1 pocket
CMC Header

36-circuit and
48-circuit

2 pocket
CMC Header

72-circuit and
96-circuit

36638

Features and Benefits
- 1 or 2-pocket CMC header in right-angled version
- Different circuit sizes options for 1 and 2 pocket headers
- Offers optional a snap-in peg
- Terminals mate with CP 0.635mm (.025") and CP 1.50mm (.059") solder-mount terminals
- Mounting to customer box by screwing
- Headers are off shelf available
- Mates with CMC receptacle 48-circuit connector
- Provides configuration flexibility
- Supports retention of the header to the PCB
- For low- and medium-current applications
- Safe and robust mounting
- No custom tooling costs needed

Reference Information
Product Specification:
Please refer to product specification of the relevant mating CMC connector.

Packaging: Trays in carton box
Mates With: 64320 series
Use With: On Connector side: 64425-1010 Blind Plug 0.635mm 64425-1023 Blind Plug 1.50mm
64319-1201 32ckt Wire Cap
64320-1301 48ckt Wire Cap
6422 series
CP Terminals 0.60mm (.025")
6423 series
CP Terminals 1.50mm (.059")

Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

Electrical
Voltage: 250V AC
Current: *
CP 0.635mm (.025") terminals — max 6.0A (0.75mm² wire)*
CP 1.50mm (.059") terminals — max 12.0A (2.00mm² wire)*
* current tested on a 5 terminals loaded connector, current for temperature increase of 40°C

Contact Resistance:
0.635mm (.025") terminals: 8 milliohms max.
1.50mm (.059") terminals: 4 milliohms max.

Dielectric Withstanding Voltage: 1000V AC for 1 minute
Insulation Resistance:
100 Megohms min.

Mechanical
Contact Insertion Force:
0.635mm (.025") terminal: 12.00N max
1.50mm (.059") terminal: 25.00N max

Contact Retention to Housing:
0.635mm (.025") terminal: 60.00N min
1.50mm (.059") terminal: 100.00N min

Wire Pull-Out Force:
min 100.00N

Mating Force: 70.00N max.
Unmating Force: 70.00N max.

Durability: 20 mating cycles

Physical
Housing: PBT, Glass-filled
Lead-Free: Yes
Operating Temperature: -40 to +125°C

Features and Benefits
- Mates with CMC receptacle 48-circuit connector
- Provides configuration flexibility
- Supports retention of the header to the PCB
- For low- and medium-current applications
- Safe and robust mounting
- No custom tooling costs needed

Order No. Circuits Mates with Pin Count 0.63mm Pin Count 1.50mm Terminal Type Plating
36638-0001 72 (36 + 36) 64320-2319 and 64320-4311 60 12 Solder tin
36638-0002 48 64320-1311 or 64320-3311 40 8
36638-0003 48 64320-1319 or 64320-3319 40 8
36638-0004 48 64320-1311 or 64320-3311 40 8
36638-0005 48 64320-1319 or 64320-3319 40 8
36638-0006 36 64320-2311 or 64320-4311 30 6
36638-0007 36 64320-2319 or 64320-4319 30 6
36638-0008 36 64320-2311 or 64320-4311 30 6
36638-0009 36 64320-2319 or 64320-4319 30 6
36638-0010 72 (36 + 36) 64320-2319 and 64320-4311 60 12
36638-0011 48 (48) 64320-1319 and 64320-3319 88 24
36638-0012 48 (48) 64320-1319 and 64320-3319 88 24
36638-0013 26 64320-2311 or 64320-4311 30 6 Gold 1.27µ Signal pins

www.molex.com
**Features and Benefits**
- 112-circuit, three-pocket, right-angle header
- Terminals mate with CP 0.635mm (.025") and CP 1.50mm (.059") solder-mount terminals
- Housing made out of high flammability V0 plastic material
- Plastic material is suitable for epoxy adhesion
- Plastic material is hydrolytically stable
- Headers are off shelf available

**Reference Information**
- Product Specification: please refer to product specification of the relevant mating CMC connector
- Packaging: trays in carton box
- Mates With: 64319-3211 and 64320-3319 and 64319-1218
- Use With: On Connector side: 64325-1010 Blind Plug 0.635mm 64325-1023 Blind Plug 1.50mm 64319-1201 32ckt Wire Cap 64320-1301 48ckt Wire Cap 64322 series CP Terminals 0.60mm (.025") 64323 series CP Terminals 1.50mm (.059")

**Design**
- Designed In: mm
- RoHS: Yes
- Halogen Free: Yes

**Electrical**
- Voltage: 250V AC
- Current: * 
  - CP 0.635mm (.025") terminals — max 6.0A (0.75mm² wire)*
  - CP 1.50mm (.059") terminals — max 12.0A (2.00mm² wire)*

* current tested on a 5 terminals loaded connector, current for temperature increase of 40°C

---

**Order No.** | **Circuits** | **Mates with** | **Pin Count 0.63mm** | **Pin Count 1.50mm** | **Terminal Type**
--- | --- | --- | --- | --- | ---
64333-0100 | 112 (32 + 48 + 32) | 64319-3211 and 64320-3319 and 64319-1218 | 48 | 24 | Solder pin
2.54mm (.100"")
3.50mm (.138"")
7.00mm (.276"") Pitch

Wire-to-Board
3 pocket
CMC Header

Compliant Pin
Press-fit terminals

34763-0001
154-circuit

**Features and Benefits**

- 154-circuit, 3-pocket, right-angle header with compliant pin terminals for solder-free processing
- 154-circuit header features 120 x 0.635mm (.025") signal pins, 24 x 1.50mm (.110") terminals and 10x28mm (.110") power pins
- Sophisticated new robust design of integral guiding plate on 154-circuit header
- 154-circuit connection system is designed to perform up to 50 mating cycles
- 154-circuit header is designed with option for potting before adhesion to the casting

**Reference Information**

Product Specification:
please refer to product specification of the relevant mating CMC connector.

Packaging: Trays in carton box

Mates With:
- 64321-2011
- 64321-2019
- 64320-1318

Use With:

<table>
<thead>
<tr>
<th>On Connector side</th>
<th>64325-1010 Blind Plug 0.635mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>64325-1023 Blind Plug 1.50mm</td>
</tr>
<tr>
<td></td>
<td>64325-1091 Blind Plug 2.80mm</td>
</tr>
<tr>
<td></td>
<td>64321-1101 53ckt Wire Cap</td>
</tr>
<tr>
<td>64322 series</td>
<td>CP Terminals 0.60mm (.025&quot;)</td>
</tr>
<tr>
<td>64323 series</td>
<td>CP Terminals 1.50mm (.059&quot;)</td>
</tr>
<tr>
<td>64324 series</td>
<td>CP Terminals 2.80mm (.110&quot;)</td>
</tr>
</tbody>
</table>

Designed In: Millimeters
RohS: Yes
Halogen Free: Yes

**Electrical**

Voltage: 250V AC

Current:
- 2.5A for CP 0.635mm (.025") terminal (0.75mm² wire)
- 12.0A for CP 1.50mm (.059") terminal (2.0mm² wire)
- 21.0A for CP 2.80mm (.110") terminals (5.0mm²)

*Current tested on a fully loaded connector, current for temperature increase of 40°C

**Mechanical**

Contact Insertion Force:
- CP 0.635mm (.025") : 12.00N max.
- CP 1.50mm (.059") : 20.00N max.
- CP 2.80mm (.110") : 25.00N max.

Contact Retention to Housing:
- CP 0.635mm (.025") : 60.00N min.
- CP 1.50mm (.059") : 100.00N min.
- CP 2.80mm (.110") : 100.00N min

Wire Pull-Out Force:
min. 100.00 N

Insertion Force to PCB: N/A
Mating Force: 80.00N max
Unmating Force: 80.00N max
Normal Force: N/A

Durability: 20 mating cycles

**Physical**

Housing: PBT Glass-filled
Operating temperature: -40 to +125°C

**Header**

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<th>Pin Count 0.63mm</th>
<th>Pin Count 1.50mm</th>
<th>Pin Count 2.80mm</th>
<th>Terminal Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>34763-0001</td>
<td>154</td>
<td>64321-2011</td>
<td>120</td>
<td>24</td>
<td>10</td>
<td>Compliant Pin, Press-fit style (Eye-of-Needle)</td>
</tr>
</tbody>
</table>

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