Industrial Rectangular Connectors
Molex’s line of industrial rectangular connectors offers unique designs and user-friendly features. These connectors have been designed for rugged industrial applications and offer advantages such as space savings and modularity for maximum design flexibility.

The industrial rectangular connector line consists of three sub-families:
- HMC (single and multi-module types)
- Mini-HMC
- CRC (Compact Robotic Connectors)

**FEATURES AND BENEFITS**

**HMC/Mini-HMC**
- Unique rounded-shape metal hood with single action lock for space savings and easy handling
- Easy removal of terminal housings for fast and easy field servicing
- Single or multi-module type (HMC only) for maximum design flexibility
- Die cast covers and shells protect the inner housing from damage resulting from rough handling
- Flexible housing configurations enable various configurations for power and signal applications

**CRC**
- Compact design takes up approximately 1/15th the space of industry-standard heavy duty connectors
- Space savings and full shielding meet the requirements found in various industrial and clean-room applications
- Simplified kit ordering makes managing assembly and inventory easy
- Receptacle shells available for front or rear panel mount to accommodate any application
- Audible and tactile clicks on insertion to facilitate reliable mating

**APPLICATIONS**

**HMC**
- Industrial robotics
- Transportation equipment
- Power generation

**Mini-HMC**
- Semiconductor/LCD manufacturing equipment
- Machinery
- Industrial controls
- Small robots

**CRC**
- Small robots
- Industrial equipment
- Medical equipment
- Instrumentation
- Control boxes

**CHOOSING YOUR RECTANGULAR CONNECTOR**

<table>
<thead>
<tr>
<th></th>
<th>CRC (p. 3-7)</th>
<th>Mini-HMC (p. 9-10)</th>
<th>HMC (Single-module Type) (p. 11-14)</th>
<th>HMC™ (Multi-module Type) (p. 15-19)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Max. Number of Circuits</strong></td>
<td>4</td>
<td>12, 20, 30 and 50</td>
<td>40</td>
<td>36</td>
</tr>
<tr>
<td><strong>Max. Current (per circuit)</strong></td>
<td>15.0A</td>
<td>7.0A</td>
<td>35.0A (10 circuits) 10.0A (2 circuits)</td>
<td>15.0A 20.0A 12.0A</td>
</tr>
<tr>
<td><strong>Wire Range (AWG)</strong></td>
<td>14-18</td>
<td>18-28</td>
<td>18-28</td>
<td>14-16 16-28</td>
</tr>
</tbody>
</table>
Molex’s CRC rectangular I/O connector system provides a compact solution for today’s small industrial robots and factory automation equipment. This panel-mount system takes up only about 1/15th the space of industry-standard heavy-duty connectors. The connector system was designed to meet the space savings and shielding requirements found in various industrial and clean-room applications.

Modular CRC terminal housings can be easily snapped into panel-mount shells without any tools making field installation and maintenance fast and easy. Crimp termination saves additional costs and simplifies wiring.

CRC connectors are delivered in kit form for easy assembly and only one part number to inventory. Housings and shells can accept either male or female inserts for maximum design flexibility.

**ASSEMBLY OVERVIEW**

- Die-cast shell for panel-mount or wire-to-wire applications
- Plastic covers snap together easily and provide protection and easy handles
- Housings and shells can accept either male or female inserts for maximum design flexibility
- Copper foil and inner shell provide full frame grounding and shielding
- Gold-plated contacts provide reliability for repeated mating/unmating
- Modular CRC terminal housings can be easily snapped into panel-mount shells without any tools making field installation and maintenance fast and easy. Crimp termination saves additional costs and simplifies wiring.

**Industrial Rectangular Connectors**

**CRC™ (Compact Robotic Connectors)**
Features and Benefits

- Tab-style contact design provides low insertion force and secure electrical contact
- Locking tang secures terminal in housing

Reference Information

Packaging: Reel or Bag
Mates With: 56194
Use With: 55887, 55890
Designed In: Millimeters

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Wire Range (AWG)</th>
<th>Max. Wire Insulation Dia. (in.)</th>
<th>Pin Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strip</td>
<td>Loose</td>
<td></td>
<td></td>
</tr>
<tr>
<td>56193-4028</td>
<td>56193-4128</td>
<td>14-18</td>
<td>Standard</td>
</tr>
</tbody>
</table>

Note: Sales drawings and product specifications available at www.molex.com
features and specifications

CRC™ Shielded Rectangular I/O Female Power Terminal

56194

Features and Benefits

- For power applications
- Locking tang secures terminal in housing

Reference Information

Packaging: Reel or Bag
Mates With: 56193
Use With: 51300 and 51301
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 15.0A max.
Contact Resistance: Terminal-to-Terminal — 10 milliohms max.

Physical

Contact: Copper Alloy
Plating: Contact Area: Gold
Crimp Area: Tin
Underplating: Nickel
Wire Range: 14 to 18 AWG (UL 1015)
Strip Length: 3.70 to 4.10mm (.146 to .161")

Order No. Wire Range (AWG) Max. Wire Insulation Diameter mm (In) Insertion Force
--- --- --- ---
Strip Loose
56194-9028 56194-9128 14-18 3.80 (.150) Normal

Note: Sales drawings and product specifications available at www.molex.com

features and specifications

CRC™ Shielded Rectangular I/O Female Terminal

56120/56121

Features and Benefits

- Longer length can be used to provide first mate/last break connection
- Locking tangs secure terminal in housing

Reference Information

Packaging: Reel or Bag
Mates With: 56120 and 56121
Use With: 54332, 51238

Electrical

Current: 7.0A max.
Contact Resistance: Terminal-to-Terminal — 10 milliohms max.

Physical

Contact: Phosphor Bronze
Plating: Contact Area - Gold
Crimp Area - Tin
Underplating - Nickel
Wire Range: See table

Order No. Wire Range (AWG) Max. Wire Insulation Diameter mm (In) Insertion Force
--- --- --- ---
Strip Loose
56112-8428 56121-8528 18-22 2.20 (.09) Normal
56112-8628 56121-8728 24-28 1.60 (.06) Normal
56120-8428 56120-8528 24-28 1.60 (.06) Normal
56120-8628 56120-8728 24-28 1.60 (.06) Normal

Note: Sales drawings and product specifications available at www.molex.com
FEATURES AND SPECIFICATIONS

Features and Benefits
■ Side latches provide easy mating and audible “click” to confirm mating
■ Kit packaging provides simplified ordering, assembly and inventory

Reference Information
Packaging: Bag
Mates With:
4 Circuits — 55890, 51300
12-50 Circuits — 51233, 51238
Designed In: Millimeters

Electrical
Voltage: 250V
Current: See table
Contact Resistance:
  Terminal-to-Terminal — 10 milliohms max.
  Shell-to-Shell — 50 milliohms max.
Dielectric Withstanding Voltage: 1500V AC/1 min.
Insulation Resistance: 1000 Megohms min.

Physical
Terminal Housing: PBT, Black, UL 94V-0
Plastic Covers: Polycarbonate, Gray, UL 94V-0
Spring Latch: Stainless Steel
Metal Shells: Phosphor Bronze, nickel plate
Cable Clamp: Stainless Steel
Screws: M2.5, Steel
Operating Temperature: -40 to +105°C

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Max. Number of Circuits</th>
<th>Total Max. Current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>Female</td>
<td></td>
</tr>
<tr>
<td>55887-0471</td>
<td>51297-0471</td>
<td>4</td>
</tr>
<tr>
<td>55836-1270</td>
<td>54332-1270</td>
<td>12</td>
</tr>
<tr>
<td>55836-2070</td>
<td>54332-2070</td>
<td>20</td>
</tr>
<tr>
<td>55836-3070</td>
<td>54332-3070</td>
<td>30</td>
</tr>
<tr>
<td>55836-5001</td>
<td>54332-5001</td>
<td>50</td>
</tr>
</tbody>
</table>

*Assembly kit includes terminal housing (1); shell body (1); shell cover (1); cable clamp (1); cross-recessed head screw (2); cover A (1); cover B (1)
Note: Sales drawings and product specifications available at www.molex.com
FEATURES AND SPECIFICATIONS

CRC™
Shielded Rectangular I/O
Panel Mount Receptacle Shell

56377

Features and Benefits
- Accepts male or female receptacle housings
- “One-touch” spring lock enables housing to be easily removed for field servicing
- Front and rear panel-mount options
- Side locks provide full frame grounding and audible “click” to confirm mating
- Rugged metal shell provides protection and shielding

Reference Information
Packaging: Tray
Use With: 55890, 51300, 51233, 51238
Designed In: Millimeters

Physical
Material: Zinc Alloy, Nickel plating
Operating Temperature: -40 to +105°C

Order No. | Rear Mount | Front Mount | Max. Number of Circuits |
---|---|---|---|
56377-1201 | 56377-1200 | 4 |
56377-2001 | 56377-2000 | 12 |
56377-3001 | 56377-3000 | 20 |
56377-5001 | 56377-5000 | 30 |

Note: Sales drawings and product specifications available at www.molex.com

FEATURES AND SPECIFICATIONS

CRC™
Shielded Rectangular I/O
Receptacle Housing

55890/51300/51233/51238

Features and Benefits
- Two styles to accept male or female terminals
- Can be used in panel-mount or wire-to-wire applications
- Side locks provide full frame grounding and audible “click” to confirm mating
- “One-touch” spring lock enables easy housing insertion and extraction for field servicing
- Fully shrouded to protect terminals

Reference Information
Packaging: Tray
Mates With: 55887, 51297, 55836, 54332
Use With: 56377
Designed In: Millimeters

Order No. | Male | Female | Max. Number of Circuits | Total Max. Current (A) |
---|---|---|---|---|
55890-0411 | 51300-0411 | 4 | 50.0 |
51233-1211 | 51238-1211 | 12 | 48.0 |
51233-2011 | 51238-2011 | 20 | 70.0 |
51233-3011 | 51238-3011 | 30 | 90.0 |
51233-5011 | 51238-5011 | 50 | 125.0 |

Note: Sales drawings and product specifications available at www.molex.com

Electrical
Voltage: 250V
Current: See table
Contact Resistance: Shell-to-Shell: 50 milliohms max.
Dielectric Withstanding Voltage: 1500V AC/1 min.
Insulation Resistance: 1000 Megohms min.

Physical
Housing: PBT, Black, UL 94V-0
Spring: Stainless steel
Operating Temperature: -40 to +105°C
The HMC and Mini-HMC have been designed with many features that make them unique and an ideal connector for many applications requiring a rugged, high pin count solution. The crescent-shaped metal hoods provide space savings and easy handling. A spring lock enables the lever to be easily engaged and held firmly in place for a secure connection when parts are mated. Terminal housings are inserted and removed from the back side of the plug and receptacle shells, providing a cost savings on back side harnessing. The terminal housings also include a unique locking feature that eliminates the need for screws, special hardware or tools during installation or removal. Both connector systems are environmentally sealed with an IP65 rating to prevent the ingress of dust and water when mated.

The HMC is available in single- or multi-module type, and the Mini-HMC is multi-module type only. The multi-module type accommodates several housing configurations for maximum flexibility, while the single module type HMC can simplify inventory when multiple configurations may not be necessary.

To make a fully mated HMC or Mini-HMC connection, the following components are required:

**Plug (cable mount):**
- Male or female crimp terminals
- Male or female terminal housing
- Plug shell assembly
- Plug cover
- End bell cap assembly

**Receptacle (cable or panel mount):**
- Male or female crimp terminals
- Male or female terminal housing
- Receptacle shell assembly
- Receptacle cover (for cable mount configuration)
- End bell cap assembly (for cable mount configuration)
**Features and Benefits**

- Can be used with plug or receptacle shell assemblies for design flexibility
- “One touch” lock and removable housings simplify assembly
- Utilizes the same terminals as CRC connectors
- Ideal for smaller industrial robotic applications

**Reference Information**

Packaging: Bag
Mates With: 500812 mates with 500813
Use With: See table
Flammability: UL 94V-0

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**Mini-HMC™ Rectangular Industrial Connector System Terminal Housing**

**500812, 500813**

**Male Housing**

**Female Housing**

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**Mini-HMC™ Rectangular Industrial Connector System Shell Assembly**

**500809, 500810**

**Plug**

**Receptacle**

---

**Order No.**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Gender</th>
<th>Use With</th>
<th>Max. Number of Circuits</th>
</tr>
</thead>
<tbody>
<tr>
<td>500812-1000</td>
<td>Male</td>
<td>56118, 56119</td>
<td>10</td>
</tr>
<tr>
<td>500813-1000</td>
<td>Female</td>
<td>56120, 56121</td>
<td></td>
</tr>
</tbody>
</table>

**Order No.**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Type</th>
<th>Max. Number of Circuits</th>
</tr>
</thead>
<tbody>
<tr>
<td>500810-0000</td>
<td>Plug</td>
<td>40 (fully loaded)</td>
</tr>
<tr>
<td>500809-0000</td>
<td>Receptacle</td>
<td></td>
</tr>
</tbody>
</table>

Note: Sales drawings and product specifications available at www.molex.com
**Features and Benefits**

- Provides the ruggedness of traditional heavy duty connectors in a smaller form factor
- Ideal for smaller industrial robotic applications

**Reference**

Packaging: Bag
Use With: 500810, 58550

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**Physical**

- Material: Aluminum Alloy, Nickel plate
- Cover Lock Pin: Stainless Steel
- Lever Spring: Stainless Steel
- Durability: 50 cycles
- Operating Temperature: -55 to +105°C

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**Order No.**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Cable Diameter mm (In.)</th>
<th>Cable Gland</th>
</tr>
</thead>
<tbody>
<tr>
<td>58550-0000</td>
<td>14-18 (0.55-0.71)</td>
<td>Blue</td>
</tr>
<tr>
<td>58550-0001</td>
<td>17-22 (0.67-0.83)</td>
<td>Brown</td>
</tr>
<tr>
<td>58550-0002</td>
<td>20-25 (0.79-0.98)</td>
<td>Orange</td>
</tr>
<tr>
<td>58550-0003</td>
<td>24-28 (0.94-1.10)</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

Note: Sales drawings and product specifications available at www.molex.com
FEATURES AND SPECIFICATIONS

HMC™ Rectangular Industrial Connector System
Single-Module Type
Male Crimp Terminal

55124/55125

Features and Benefits
- Can be used for signal, power or grounding applications
- Long contact area maximizes contact area and contact wipe
- Molded spring-lock retainer provides secure terminal retention
- Retainers are color coded for easy identification

Reference Information
Packaging: Bag
Mates With: 55124 mates with 54296
55125 mates with 54297
Use With: See table
Designed In: Millimeters

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Wire Range (AWG)</th>
<th>Retainer Color</th>
<th>Max. Wire Insulation Dia. mm (In.)</th>
<th>Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>55124-4131</td>
<td>22-26</td>
<td>Red</td>
<td>3.60 (.142)</td>
<td>55347</td>
</tr>
<tr>
<td>55124-4331</td>
<td>18</td>
<td>Blue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>55124-4431</td>
<td>16</td>
<td>White</td>
<td></td>
<td></td>
</tr>
<tr>
<td>55125-4131</td>
<td>12</td>
<td>White</td>
<td>5.00 (.197)</td>
<td>55348</td>
</tr>
<tr>
<td>55125-4231</td>
<td>10</td>
<td>Black</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Sales drawings and product specifications available at www.molex.com

FEATURES AND SPECIFICATIONS

HMC™ Rectangular Industrial Connector System
Single-Module Type
Female Crimp Terminal

54296/54297

Features and Benefits
- Can be used for signal, power or grounding applications
- Long contact area maximizes contact area and contact wipe
- Molded spring-lock retainer provides secure terminal retention
- Retainers are color coded for easy identification

Reference Information
Packaging: Bag
Mates With: 54296 mates with 55124,
54297 mates with 55125
Use With: See table
Designed In: Millimeters

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Wire Range (AWG)</th>
<th>Retainer Color</th>
<th>Max. Wire Insulation Dia. mm (In.)</th>
<th>Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>54296-9131</td>
<td>22-26</td>
<td>Red</td>
<td>3.60 (.142)</td>
<td>54478</td>
</tr>
<tr>
<td>54296-9331</td>
<td>18</td>
<td>Blue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54296-9431</td>
<td>16</td>
<td>White</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54297-9131</td>
<td>12</td>
<td>White</td>
<td>5.00 (.197)</td>
<td>54479</td>
</tr>
<tr>
<td>54297-9231</td>
<td>10</td>
<td>Black</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Sales drawings and product specifications available at www.molex.com
FEATURES AND SPECIFICATIONS

Features and Benefits
- Can be used with receptacle or plug shell assemblies
- Spring-touch lock snaps firmly into shell and allows easy removal for field servicing
- Polarization features facilitate insertion and prevent mis-mating

Reference Information
Packaging: Bag
Mates With: 55348 mates with 54479
55347 mates with 54478
Use With: 55124, 55125, 54296, 54297
Designed In: Millimeters

Order No. | Male | Female | Max. Number of Circuits
--- | --- | --- | ---
55348-1215 | 54479-1215 | 12
55347-4015 | 54478-4015 | 40
55347-5215 | 54478-5215 | 52

Note: Sales drawings and product specifications available at www.molex.com

Electrical
Voltage:
- 12-circuit — 380V AC, 450V DC
- 40, 52-circuit — 250V AC/300V DC
Dielectric Withstanding Voltage:
- 12-circuit — 2250V AC/1 minute
- 40, 52-circuit — 1750V AC/1 minute
Insulation Resistance: 1000 Megohms min.

Physical
Housing: Polycarbonate, Gray, UL 94V-0
Spring: Stainless steel
Operating Temperature: -40 to +125°C

HMC™
Rectangular Industrial Connector System
Single-Module Type
Terminal Housing

55347/55348/
54478/54479

Male
Female
**Features and Benefits**
- Accepts male and female housings for maximum flexibility
- Rigid ground terminals provide shielding and first mate/last break
- Polarization features facilitate module insertion and prevent mis-mating
- Screw attachments can be removed to allow housing to snap out for easy field servicing
- Durable aluminum alloy provides protection to terminals and withstands harsh environments

**Reference Information**
- Packaging: Bag
- Mates With: 58783
- Use With: 55348, 55347, 54479, 54478
- Designed In: Millimeters

**Physical**
- Shell: Aluminium alloy
- Ground Terminal: Brass, Nickel plating
- Screws: M3x5, Steel, Nickel plating
  - M2.5x6, Steel, Nickel plating
- Operating Temperature: -40 to +125°C

**Order No.** | **Number of Circuits**
--- | ---
58782-0011 | 12
58782-0011 | 40
58782-0010 | 52

Note: Sales drawings and product specifications available at www.molex.com

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**Features and Benefits**
- Accepts male and female housings for maximum flexibility
- Cut-away in shell allows housing to be easily removed after panel-mounting for field servicing
- Rigid ground terminals provide shielding and first mate/last break
- Polarization features facilitate module insertion and prevent mis-mating
- Rubber ring provides sealing to prevent the ingress of dust and water, maintaining the integrity of the connection
- Stainless steel locking pin provides secure attachment to plug latch

**Reference Information**
- Packaging: Bag
- Waterproof/Dustproof: IP65
- Mates With: 58782
- Use With: 55348, 55347, 54479, 54478
- Designed In: Millimeters

**Physical**
- Shell: Aluminium alloy
- Ground Terminal: Brass, Nickel plating
- Gasket: Synthetic rubber
- Locking Pin: Stainless steel
- Sleeve: Stainless steel
- Screws: M2.5x4, Steel, Nickel plating
  - M3x5, Steel, Nickel plating
- Operating Temperature: -40 to +125°C

**Order No.** | **Max. Number of Circuits**
--- | ---
58783-0011 | 12
58783-0011 | 40
58783-0010 | 52

Note: Sales drawings and product specifications available at www.molex.com
**Features and Benefits**

- Rounded shape metal hood provides space savings and user-friendly handling
- Spring action lever provides smooth locking and secure mating retention
- Durable metal shell for harsh environments

**Reference Information**

**Packaging:** Bag
**Use With:** 58550  
58462 uses 58782  
58474 uses 58783
**Designed In:** Millimeters

**Physical**

- Cover: Aluminum Alloy
- Spring (plug): Stainless Steel
- Locking Pin (plug): Stainless Steel
- Lever (plug): Steel
- Knob (plug): Polyester, Black, UL 94V-0
- Operating Temperature: -40 to +125°C

**Order No.**

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Plug</th>
<th>Receptacle</th>
<th>Total Number of Circuits</th>
</tr>
</thead>
<tbody>
<tr>
<td>58462-0011</td>
<td>58474-0001</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>58462-0011</td>
<td>58474-0001</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>58462-0010</td>
<td>58474-0000</td>
<td>52</td>
<td></td>
</tr>
</tbody>
</table>

*Note: Sales drawings and product specifications available at www.molex.com*
Features and Benefits

- Can be used for signal, power or grounding applications
- Long contact area maximizes contact area and contact wipe

Reference Information

Packaging: Reel or Bag
Mates With: 5558 mates with 5556
50638 mates with 50637
503195 mates with 503196

Use With: See table
Designed In: Millimeters

Features and Benefits

- Can be used for signal, power or grounding applications
- Long contact area maximizes contact area and contact wipe

Reference Information

Packaging: Reel or Bag
Mates With: 5556 mates with 5558
50637 mates with 50638
503196 mates with 503195

Use With: See table
Designed In: Millimeters

### Electrical

Current: 50638 — 20.0A max.
5558 — 12.0A max.
503195 — 15.0A max.

Contact Resistance: 20 milliohms max.

### Physical

Contact: Brass (50638/5558)
Copper Alloy (503195)

Plating:
- Contact Area: Gold
- Crimp Area: Tin
- Underplating: Nickel

### Order No.

<table>
<thead>
<tr>
<th>Strip</th>
<th>Loose</th>
<th>Wire Range (AWG)</th>
<th>Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>39-00-0432</td>
<td>39-00-0433</td>
<td>22-28</td>
<td>51203</td>
</tr>
<tr>
<td>39-00-0430</td>
<td>39-00-0431</td>
<td>18-24</td>
<td></td>
</tr>
<tr>
<td>50638-9028</td>
<td>50638-9128</td>
<td>14-16</td>
<td>51194</td>
</tr>
</tbody>
</table>

Note: Sales drawings and product specifications available at www.molex.com
**Features and Benefits**

- Can be used with plug or receptacle shell assemblies
- User-friendly latches enable easy housing insertion and removal for field servicing
- Polarization features facilitate insertion and prevent mis-mating
- Fully shrouded to protect terminals
- Locking ribs provide secure housing retention

**Reference Information**

**Packaging:** Bag

**Designed In:** Millimeters

**Use With:** See table

**Electrical**

- Voltage: 250V AC / 300V DC
- Dielectric Withstand Voltage: 1750V AC/1 minute
- Insulation Resistance: 1000 Megohms min.

**Physical**

- Housing: Glass-filled Nylon, Natural, UL 94V-0
- Operating Temperature: -40 to +125°C

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### Order No.

<table>
<thead>
<tr>
<th>Male</th>
<th>Female</th>
<th>Max. Number of Circuits</th>
<th>Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>503193-0600</td>
<td>503194-0600</td>
<td>6</td>
<td>58687, 58691</td>
</tr>
<tr>
<td>51194-0800</td>
<td>51195-0800</td>
<td>8</td>
<td>58721, 58719</td>
</tr>
<tr>
<td>51203-1200</td>
<td>51204-1200</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

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Note: Sales drawings and product specifications available at www.molex.com
HMC™ Rectangular Industrial Connector System
Multi-Module Type Plug Shell Assembly

58687/58721

Features and Benefits
- Accepts male and female housings for maximum flexibility
- Rigid ground terminals provide shielding and first mate/last break
- Polarization features facilitate housing insertion and prevent mis-mating
- Housings can be easily removed for field servicing

Reference Information
Packaging: Bag
Mates With: 58687 mates with 58691
58721 mates with 58719
Use With: See table
Designed In: Millimeters

Physical
Shell: Aluminium alloy
Ground Terminal: Brass, Nickel plating
Screws: M3x5, Steel, Nickel plating
M2.5x8, Steel, Nickel plating
Operating Temperature: -40 to +125°C

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Max. Number of Circuits</th>
<th>Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>58687-0010</td>
<td>36</td>
<td>503194, 503195</td>
</tr>
<tr>
<td>58721-0010</td>
<td>48</td>
<td>51194, 51195</td>
</tr>
<tr>
<td>58721-0010</td>
<td>72</td>
<td>51203, 51204</td>
</tr>
</tbody>
</table>

Note: Sales drawings and product specifications available at www.molex.com

HMC™ Rectangular Industrial Connector System
Multi-Module Type Receptacle Shell Assembly

58691/58719

Features and Benefits
- Accepts male and female housings for maximum flexibility
- Cut-away in shell allows housings to be easily removed after panel-mounting for field servicing
- Rigid ground terminals provide shielding and first mate/last break
- Polarization features facilitate housing insertion and prevent mis-mating
- Gasket provides sealing to prevent the ingress of dust and water, maintaining the integrity of the connection
- Stainless steel locking pin provides secure attachment to plug latch

Reference Information
Packaging: Bag
Waterproof/Dustproof: IP65
Mates With: 58691 mates with 58687
58719 mates with 58721
Designed In: Millimeters
Use With: See table

Physical
Shell: Aluminium alloy
Ground Terminal: Brass, Nickel plating
Locking Pin: Stainless steel
Gasket: NBR
Screws: M2.5x6, Steel, Nickel plating
M3x5, Steel, Nickel plating
Operating Temperature: -40 to +125°C

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Max. Number of Circuits</th>
<th>Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>58691-0010</td>
<td>36</td>
<td>503194, 503195</td>
</tr>
<tr>
<td>58719-0010</td>
<td>48</td>
<td>51194, 51195</td>
</tr>
<tr>
<td>58719-0010</td>
<td>72</td>
<td>51203, 51204</td>
</tr>
</tbody>
</table>

Note: Sales drawings and product specifications available at www.molex.com
**FEATURES AND SPECIFICATIONS**

**HMC™ Rectangular Industrial Connector System Multi-Module Type Plug Cover Assembly**

58696/58723

**Features and Benefits**
- Rounded-shape metal hood provides space savings and user-friendly handling
- Spring-action lever provides smooth locking and secure mating retention
- Durable metal shell for rugged environments

**Reference Information**
Packaging: Bag
Use With: 58696 uses 58687
58723 uses 58721
Designed In: Millimeters

**Physical**
Cover: Aluminum Alloy
Lever Spring: Stainless Steel
Locking Pin: Stainless Steel
Lever: Steel
Operating Temperature: -40 to +125°C

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Max. Number of Circuits</th>
</tr>
</thead>
<tbody>
<tr>
<td>58696-0010</td>
<td>36</td>
</tr>
<tr>
<td>58723-0010</td>
<td>48</td>
</tr>
<tr>
<td>58723-0010</td>
<td>72</td>
</tr>
</tbody>
</table>

**Note:** Sales drawings and product specifications available at www.molex.com

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**HMC™ Rectangular Industrial Connector System Multi-Module Type Receptacle Dust Cover**

51201/51202

**Features and Benefits**
- Used to protect terminals from dust and contaminants when unmated
- Easily snaps onto receptacle

**Reference Information**
Packaging: Bag
Use With: 58691, 58719
Designed In: Millimeters

**Physical**
Material: ABS, Black, UL 94V-2
Operating Temperature: -40 to +125°C

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Use With</th>
</tr>
</thead>
<tbody>
<tr>
<td>51201-0001</td>
<td>58691</td>
</tr>
<tr>
<td>51202-0001</td>
<td>58719</td>
</tr>
</tbody>
</table>

Note: Sales drawings and product specifications available at www.molex.com
Rectangular Industrial End Bell Cap Assembly

58550

Features and Benefits
- Removable cable cap provides wire organization and protection
- PVC cable gland protects against water and contaminant ingress around cable
- Cable gland comes in multiple sizes depending on cable outside diameter accommodating a wide range of cable types
- Cable glands are color coded for easy identification during assembly

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Wire Size (mm) (dia.)</th>
<th>Cable Gland</th>
</tr>
</thead>
<tbody>
<tr>
<td>58550-0000</td>
<td>14.00 to 18.00</td>
<td>Blue</td>
</tr>
<tr>
<td>58550-0001</td>
<td>17.00 to 21.00</td>
<td>Brown</td>
</tr>
<tr>
<td>58550-0002</td>
<td>20.00 to 25.00</td>
<td>Orange</td>
</tr>
<tr>
<td>58550-0003</td>
<td>24.00 to 28.00</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

Note: Sales drawings and product specifications available at www.molex.com

Reference Information
- Packaging: Bag
- Waterproof/Dustproof: IP65
- Use With: 58462, 58474 and 58696
- Designed In: Millimeters

Physical
- Cable Cap: Brass, Nickel plating
- Cable Gland: PVC

Rectangular Industrial End Bell Cap Assembly

58866

Features and Benefits
- Removable cable cap provides wire organization and protection
- PVC cable gland protects against water and contaminant ingress around cable
- Cable gland comes in multiple sizes depending on cable outside diameter accommodating a wide range of cable types
- Cable glands are color coded for easy identification during assembly

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Wire Size (mm) (dia.)</th>
<th>Cable Gland</th>
</tr>
</thead>
<tbody>
<tr>
<td>58866-0000</td>
<td>29.00 to 33.00</td>
<td>Black</td>
</tr>
<tr>
<td>58866-0001</td>
<td>24.00 to 28.00</td>
<td>Yellow</td>
</tr>
<tr>
<td>58866-0002</td>
<td>14.00 to 18.00</td>
<td>Blue</td>
</tr>
<tr>
<td>58866-0003</td>
<td>20.00 to 25.00</td>
<td>Orange</td>
</tr>
</tbody>
</table>

Note: Sales drawings and product specifications available at www.molex.com

Reference Information
- Packaging: Bag
- Waterproof/Dustproof: IP65
- Use With: 58723
- Designed In: Millimeters

Physical
- Cable Cap: Brass, Nickel plating
- Cable Gland: Black PVC