Compact MultiCat Mid-Power Connectors with Precision-Machined Contacts can be mated quickly, ensure superior durability and proper connection via connector position assurance (CPA) making it effective in multiple industry categories

### Features and Advantages

**Mid-power connector system:** Lightweight and compact wire-to-wire, wire-to-board (vertical only). Accommodates between 20 and 28 AWG wire. 8- and 20-circuit inline available. Offers design flexibility for applications requiring mid-range power. Helps mitigate space and weight constraints.

**Connector position assurance (CPA) with visual indicator:**
- Visual assurance that connector is properly engaged
- Latch provides audible feedback
- Completely mated systems allow the CPA to actuate
- Cannot actuate CPA if system is not completely mated
- Prevents accidental latch disengagement

2-piece hermaphroditic backshell
- Secures cable. Provides strain relief.
- Easy access to actuate CPA and locking mechanism without removing backshells for quick mating and unmating.

Mid-power current: 6.5A per contact (target)
- Delivers design flexibility for high- and mid-current applications

### Applications

**Commercial Aviation**
- Unmanned vehicles
- Drones
- Commercial aircraft cabins

**Industrial Automation**
- Industrial motors

**Commercial Vehicle**
- Receivers
- Satellite Dish

**Telecommunications**
- Receivers
- Satellite Dishes

**Manpower**
- Industrial Automation
- Drones
- Satellite Dishes

### Key Features

- **Low contact resistance** (high-power version: \( \leq 1 \) milliohms; mid-power version: 10 milliohms)
  - Offers large mating surface to support maximum current-carrying capacity. Transfers more power than stamped contact in a smaller interface

- **Mating force per contact (max.):**
  - 3.4N; Unmating force per contact (min.): \( \geq 0.2N \)
  - Enables easy connection/disconnection. Mitigates operator fatigue

- **Solid mass contact**
  - Provides reliability and long life cycle. Resistant to damage in blind-mate applications
Specifications

REFERENCE INFORMATION
Packaging: See Packaging Spec
UL File No.: E29179
Terminal Used: Crimp
Designed In: Millimeters
RoHS: Compliant by Exemption
Halogen Free: No
Glow Wire Compliant: No

ELECTRICAL
Voltage (max.): 500V AC/DC
Current (max.): 6.5A per Contact
Contact Resistance (max.): < 5 milliohms
Dielectric Withstanding Voltage: 2000V AC

MECHANICAL
Contact Insertion Force into Housing (max.): 30N
Contact Retention to Housing (min.): 50N
Latch Strength (min.): 150N
Mating Force (max.): 3.4N per Circuit
Unmating Force (min.): .2N per Circuit
Durability (max.): 500 cycles

PHYSICAL
Housing: PEI
Contact: Copper (Cu) alloy
Plating:
  Contact Area — Gold (Au)
PCB Thickness: 2.50mm
Operating Temperature: -40 to +150°C

Ordering Information

Multicat Connector System

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Component</th>
<th>Current Rating</th>
<th>Circuit Size</th>
<th>2 polarization options and colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>205925</td>
<td>Inline Plug Housing</td>
<td>6.5A</td>
<td>8 and 20</td>
<td>2 polarization options and colors</td>
</tr>
<tr>
<td>205926</td>
<td>Inline Receptacle Housing</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>205927</td>
<td>Inline Vertical Header</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>205929</td>
<td>Hermaphroditic Backshell</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>202935</td>
<td>Male Terminal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>202936</td>
<td>Female Terminal</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Cable Assemblies

<table>
<thead>
<tr>
<th>Custom Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Molex</td>
<td>MultiCat Cable Assemblies</td>
</tr>
</tbody>
</table>