

# MultiCat Mid-Power Connector System with Precision-Machined Contacts

**molex**

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



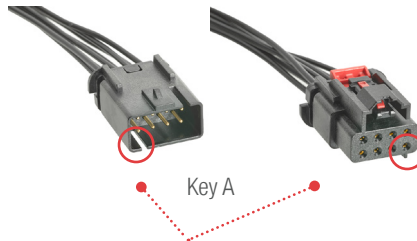
MultiCat Mid-Power Connector System

### Manual mating / unmating

Facilitates quick assembly. No tooling or hardware required. Prevents mis-mating

### 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



### 2 keying options; 2 housing color options. Polarization incorporated into latch

Eliminates assembly errors. Removes need for separate polarizing tabs

### Mid-power current: 6.5A per contact (target)

Delivers design flexibility for high- and mid-current applications

### Mating cycles: at least 500

Provides longer life. Withstands high-mating cycle applications



Mid-Power Contacts

### 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.): $\geq 0.2$ N

Enables easy connection/disconnection. Mitigates operator fatigue

### Solid mass contact

Provides reliability and long life cycle. Resistant to damage in blind-mate applications

## Applications

### Commercial Aviation

- Unmanned vehicles
- Drones
- Commercial aircraft cabins

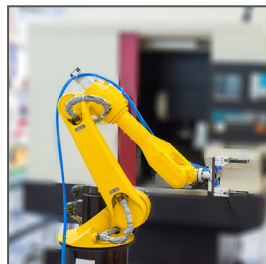
### Industrial Automation

- Industrial motors

### Commercial Vehicle

### Telecommunications

- Receivers
- Satellite Dish



Industrial Automation



Drones



Satellite Dishes

# MultiCat Mid-Power Connector System with Precision-Machined Contacts



## 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

Series No.	Component	Current Rating	Circuit Size	2 polarization options and colors
<a href="#">205925</a>	Inline Plug Housing	6.5A	8 and 20	2 polarization options and colors
<a href="#">205926</a>	Inline Receptacle Housing			
<a href="#">205927</a>	Inline Vertical Header			
<a href="#">205929</a>	Hermaphroditic Backshell			N/A
<a href="#">202935</a>	Male Terminal			
<a href="#">202936</a>	Female Terminal			

### Cable Assemblies

Custom Product	Description
<a href="#">Contact Molex</a>	MultiCat Cable Assemblies

[www.molex.com/link/multicat.html](http://www.molex.com/link/multicat.html)

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