

# Off-the-Shelf (OTS) Discrete Wire Cable Assemblies



OTS MultiCat Discrete Cable Assemblies with precision-machined contacts deliver high power, superior durability and proper connection via connector position assurance (CPA), making it effective in multiple industry categories

## Features and Advantages

### 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

### MultiCat Cable Assembly delivers a 16.0 to 40.0A current rating with connector position assurance (CPA) in a small package

Provides high power and a locking mechanism without sacrificing compactness

### UL 10669 discrete wires

Ready to use in electronic appliance applications. Provide ease of design, prototyping and production

### Manual mating / unmating

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

### Mating cycles: at least 500

Provides longer life. Withstands high-mating cycle applications

### Assembled in ISO/TS16949-certified facilities

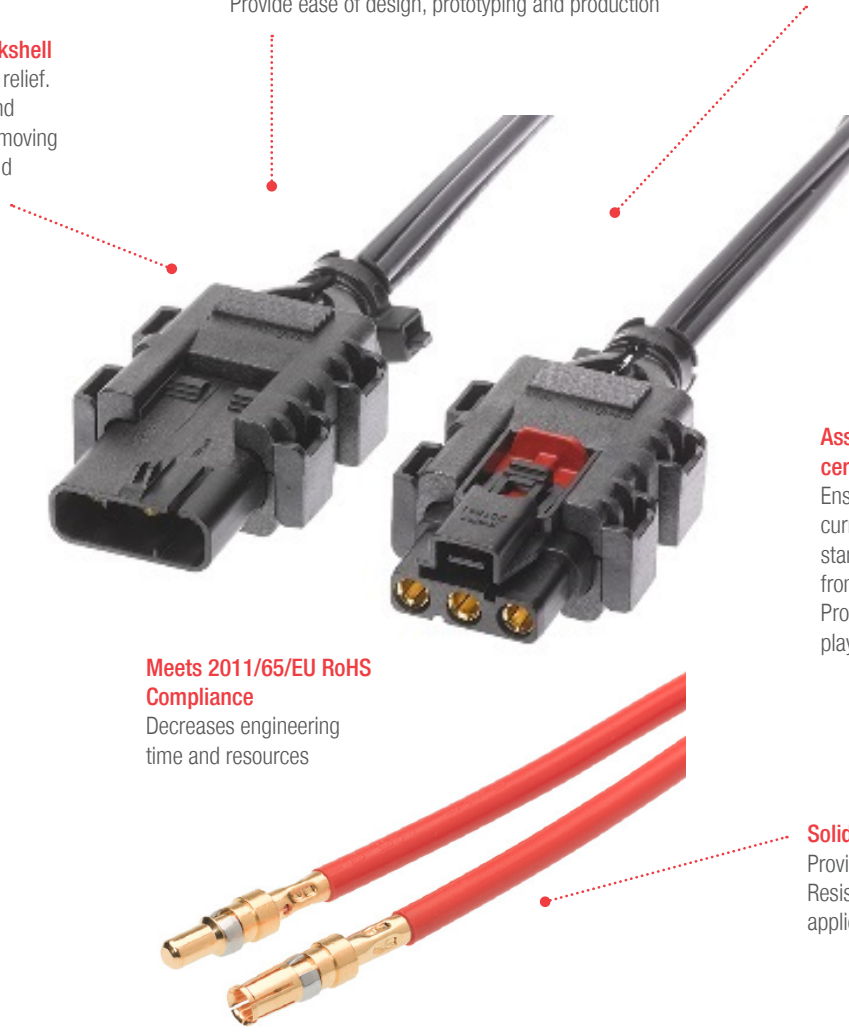
Ensures high quality. Meets current automotive industry standards. Pin-to-pin mapping from receptacle to PCB header. Provides ready-to-use, plug-and-play connections

### Meets 2011/65/EU RoHS Compliance

Decreases engineering time and resources

### Solid mass contact

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



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## Applications

### Aerospace and Defense

- Unmanned vehicles
- Drones

### Commercial aircraft cabins

### Industrial Automation

- Industrial motors

### Medical

- Diagnostic equipment

### Telecommunications

- Receivers
- Satellite Dish



MRI Equipment



Industrial Automation



Drones

## Specifications

### MultiCat OTS Discrete Wire Cable Assemblies

#### REFERENCE INFORMATION

Packaging: See Packaging Spec  
 UL File No.: E29179  
 Terminal Used: Crimp  
 Use with: UL 10669  
 Designed In: Millimeters  
 RoHS: Compliant by Exemption  
 Halogen Free: TBD  
 Glow Wire Compliant: No

#### ELECTRICAL

Voltage (max.): 1000V AC/DC  
 Current (max.): 40.0A per Contact  
 Contact Resistance (max.): 1 milliohms  
 Dielectric Withstanding Voltage: 3000V AC

#### MECHANICAL

Contact Insertion Force into Housing (max.): 40N  
 Contact Retention to Housing (min.): 175N  
 Latch Strength (min.): 200N  
 Insertion Force to PCB: TBD  
 Mating Force (max.): 24N per Circuit  
 Unmating Force (min.): 5N 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 +105°C

## Ordering Information

Series No.	Component	Type	Circuits	Length (mm)
<a href="#">45141</a>	MultiCat Receptacle	Single Row	3 and 4	300 and 1,000
<a href="#">45142</a>	MultiCat Plug			

Custom Product	Description
<a href="#">Contact Molex</a>	MultiCat Custom lengths and other options

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

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