

# FCT High-Power Contacts



**FCT High-Power Contacts are precision machined and deliver up to a 40.0A current rating, making them ideal for FCT Mixed-Layout D-Sub Connectors**

## Features and Advantages

### Machined contacts

Superior current-carrying capacity. Offers contact variety and plating options. Provides high mating cycles and increased strength over stamped contacts

### High-current rating from 10.0 to 40.0A

Ideal for mixed layout connectors requiring high power

### Designed for several types of terminations

Delivers design flexibility. Effective for cable terminations (crimp, solder) or PCB terminations (e.g., straight or right-angled, press-fit)



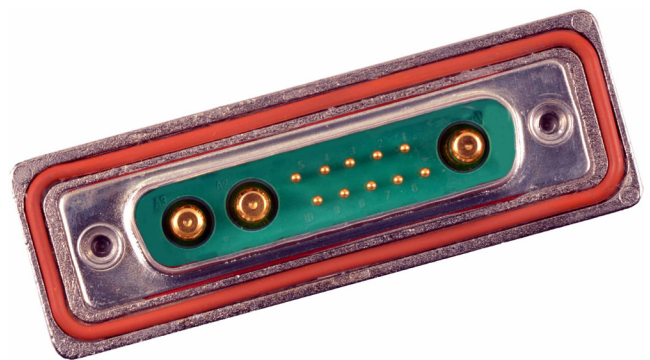
FCT Mixed-Layout D-Sub Connectors and Backshells



High-Powered Machined Contact, Plug



High-Powered Machined Contact, Receptacle



Mixed-Layout D-Sub Connector with High-Power Machined Contacts

## Markets and Applications

### Commercial Aviation

- Unmanned vehicles
- Commercial aircraft cabins

### Consumer

- Drones

### Industrial Automation

- Motion control
- Robotics
- Power/signal distribution
- Control panels

### Medical

- Non-ferrous environments

### Commercial Vehicle

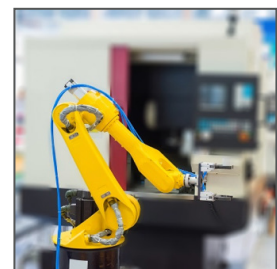
- IP67 breakout cables/overmolding
- Power/signal distribution

### Telecommunications

- Receivers
- Satellite dishes



Application



Industrial Motor Applications



MRI Equipment



High-Speed Train



Satellite Dishes

## Specifications

### *ELECTRICAL*

Current (max.): 10.0, 20.0, 30.0 and 40.0A  
Contact Resistance:  $\leq 1$  milliohms

### *MECHANICAL*

Mating Force per High-Power Contact:  $\leq 7$ N  
Unmating Force per High-Power Contact:  $\geq 5$ N  
Durability (min.):  
Standard — 500 Mating Cycles  
Low-Cost — 200 Mating Cycles

### *PHYSICAL*

Contact Material: Copper Alloy  
Plating Material: Gold over Nickel  
Operating Temperature: -55 to +155°C