

FCT Precision Machined Contacts



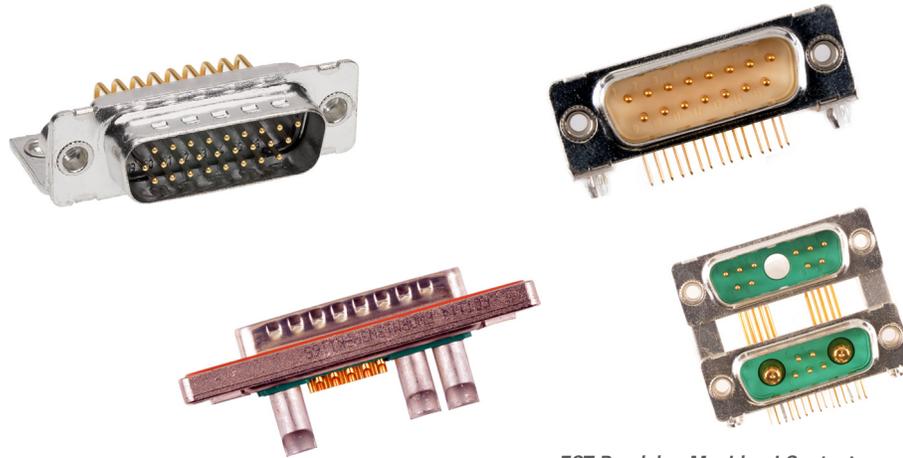
FCT Precision Machined Contacts are solid metal contacts that offer greater power density, lower contact resistance and higher current than stamped contacts, providing better strength and durability

Features and Advantages

Available in 3 types: standard density, high density and high power
Well-suited for both signal and power transmission
Suitable for various cable ranges



FCT Precision Machined Contacts



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Crimp or solder cable and PCB termination options

Meets a wide range of design requirements for a variety of applications



Even power distribution

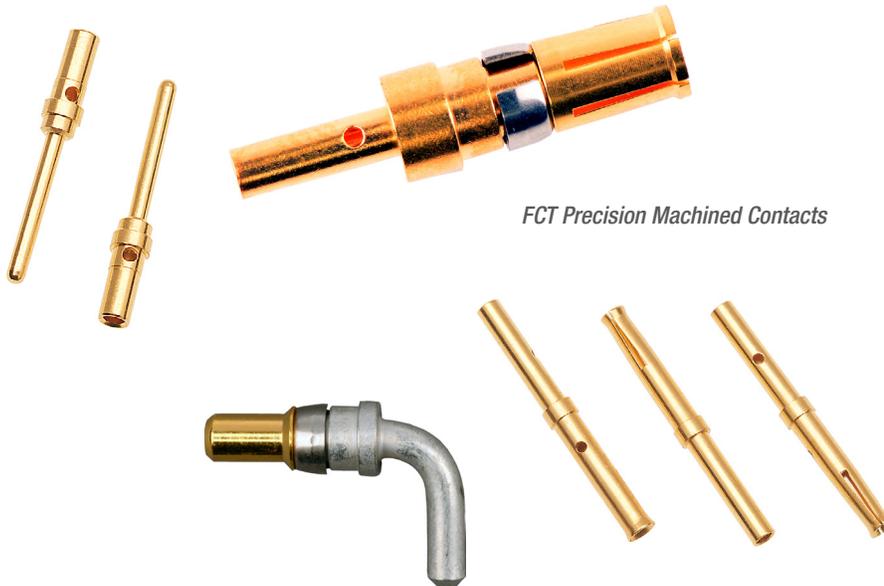
Simplifies circuitry and provides better heat dissipation

IP67 sealing of connector interface

Protects from ingress in harsh environments

Various sizes, options and accessories for use in FCT D-Sub Connectors

Offer optimal design flexibility and provide a wide range of contact options including non-magnetic applications



FCT Precision Machined Contacts



Made from copper alloy with gold plating options

Provides robust contact with low resistance

Markets and Applications

Industrial Automation

- Manufacturing equipment
- Control panels
- CNC machines

Commercial Aviation

- Aircraft cabins and galleys
- In-seat power distribution

Medical

- MRI equipment
- Patient monitoring
- Diagnostic equipment

Scientific

- Testing equipment
- Control devices

Commercial vehicle

- GPS
- Telemetry



Testing Equipment



Aircraft Cabin



MRI Equipment

Specifications

REFERENCE INFORMATION

Packaging: Carton, Tray, Reel

STANDARD DENSITY SIZE 20

ELECTRICAL

- Current (max.): 7.5A
- Contact Resistance:
 - Straight contacts ≤ 10 milliohms
 - Right-angled contacts ≤ 25 milliohms
 - Right-angled contacts 50 way ≤ 35 milliohms

MECHANICAL

- Mating Force per Signal Contact: $\leq 3.4N$
- Unmating Force per Signal Contact: $\geq 0.2N$
- Mating Cycles: (see part details)

PHYSICAL

- Contact: Copper Alloy
- Plating Material:
 - Gold over Nickel
 - Gold over Copper (non-magnetic)

HIGH DENSITY SIZE 22

ELECTRICAL

- Current (max.): 5.0A
- Contact Resistance:
 - Straight contacts ≤ 15 milliohms
 - Right-angled contacts ≤ 15 milliohms

MECHANICAL

- Mating Force per Signal Contact: $\leq 3.4N$
- Unmating Force per Signal Contact: $\geq 0.2N$
- Mating Cycles: (see part details)

PHYSICAL

- Contact: Copper Alloy
- Plating Material:
 - Gold over Nickel
 - Gold over Copper (non-magnetic)

HIGH POWER SIZE 8

ELECTRICAL

- Current (max.): 10.0A, 20.0A, 30.0A or 40.0A
- Contact Resistance:
 - Straight contacts ≤ 1 milliohm
 - Right-angled contacts ≤ 1 milliohm

MECHANICAL

- Mating Force per Signal Contact: $\leq 7N$
- Unmating Force per Signal Contact: approx. 5N
- Temperature Range: -55 to 155°C
- Mating Cycles (standard): ≤ 500
- Mating Cycles (low cost): ≤ 200

PHYSICAL

- Contact: Copper Alloy
- Plating Material:
 - Gold over Nickel
 - Gold over Copper (non-magnetic)

www.molex.com/link/dsubconnectors.html