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

- Crimp or solder cable and PCB termination options
  - Meets a wide range of design requirements for a variety of applications

- IP67 sealing of connector interface
  - Protects from ingress in harsh environments

- Even power distribution
  - Simplifies circuitry and provides better heat dissipation

- 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

- Made from copper alloy with gold plating options
  - Provides robust contact with low resistance
FCT Precision Machined Contacts

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

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: ≤ 3.4N
Unmating Force per Signal Contact: ≥ 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: ≤ 3.4N
Unmating Force per Signal Contact: ≥ 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: ≤ 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

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