

FCT High-Voltage and Pneumatic Contacts

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FCT High-Voltage and Pneumatic Contacts are precision machined and deliver a wide range of capabilities for effective use in FCT Mixed-Layout D-Sub Connectors

Features and Advantages

Machined contacts

Offers contact variety and plating options. Provides high mating cycles and increased strength over stamped contacts

Quick connection/disconnection

Works well with other contacts in a mixed-layout d-sub connector



Pneumatic Contact, Plug

Pneumatic Contact, Receptacle

Proof voltage of 4 kV/50 Hz

Ideal for mixed-layout d-sub connectors needing high-voltage contacts



High-Voltage Contact, Receptacle

High-Voltage Contact, Plug

Pneumatic contacts effective up to 101.5 psi, 7 bar (at 20°C)

Designed for maximum pressure

High-voltage contacts designed for several types of terminations

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



FCT Mixed-Layout D-Sub Connectors and Backshells

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

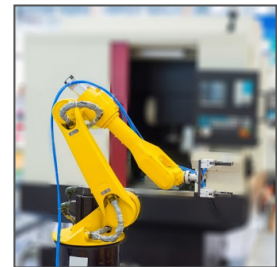
- IP67 breakout cables/overmolding
- Power/signal distribution

Telecommunications

- Receivers
- Satellite dishes



Application



Industrial Motor Applications



MRI Equipment



High-Speed Train



Satellite Dishes

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Specifications

High-Voltage Size 8 Contact

ELECTRICAL

Insulation Resistance: $\geq 2 \times 10^{10}$ Megohms
Proof Test Voltage: 4kV/50 Hz
Current Rating: 2.0A

MECHANICAL

Mating Force per Contact: ≤ 5 N
Unmating Force per Contact: ≥ 0.2 N
Durability (min.): 500

PHYSICAL

Contact Material: Copper Alloy
Plating Material: Gold over Nickel
Insulator Material: PTFE
Operating Temperature: -55 to +125°C

Pneumatic Size 8 Contact

TECHNICAL DATA

Contact Material: Nickel Alloy
O-ring Material: Viton
Max Pressure (20°C/68 F): 101.5 psi, 7 bar
Operating Temperature: -10 to +60°C

www.molex.com/link/dsubconnectors.html

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