FCT High-Voltage and Pneumatic Contacts

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

**Proof voltage of 4 kV/50 Hz**
- Ideal for mixed-layout d-sub connectors needing high-voltage contacts

**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)

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

**MRI Equipment**

**Application**

**High-Speed Train**

**Satellite Dishes**
Specifications

High-Voltage Size 8 Contact

**ELECTRICAL**
- Insulation Resistance: $\geq 2 \times 10^7$ Megohms
- Proof Test Voltage: 4kV/50 Hz
- Current Rating: 2.0A

**MECHANICAL**
- Mating Force per Contact: $\leq 5$N
- Unmating Force per Contact: $\geq 0.2$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