



Supporting Pulsed Field Ablation (PFA)



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Pulsed Field Ablation (PFA) is a technique used to treat damaged cardiac tissue that is responsible for causing irregular heartbeats. It utilizes electrophysiology, sending high voltage, short electrical pulses to treat specific areas of cardiac tissue. These pulses create electric fields that ablate, or destroy, the targeted areas of heart tissue responsible for arrhythmias. PFA uses non-thermal energy, which reduces the risk of damaging surrounding tissues. This precision allows for more targeted treatments and can lead to faster recovery times and less overall damage to healthy tissue.

Onanon's Role in PFA Applications

Onanon is a leader in medical connectors, with extensive experience in developing and implementing advanced PFA solutions. Onanon's MagConnect® HV is performance engineered to be the most intuitive interconnect in the world for PFA. This medical interconnect is a game-changer in PFA due to its intuitive self-mating design, embedded programmable EEPROM, and integrated LEDs for secure mating confirmation. Most importantly, while most PFA solutions deliver 6,000 – 8,000 volts of electrical current, Onanon's high voltage connector is rated to 12,000 volts, essential for effectively treating calcium buildup in denser heart tissue in cardiac PFA. Onanon's MagConnect® sets a new standard in user-focused, high-performance PFA solutions.

Supporting the Medical Device Industry

Onanon's expertise is founded on decades of experience in custom interconnect design and the development of cutting-edge technologies, positioning us at the forefront of innovation. With a proven track record of designing and manufacturing medical connectors and cable assemblies for leading OEMs, we have established ourselves as a trusted partner in the medical industry. Our commitment to ongoing research and development drives us to explore emerging trends and translate this knowledge into patented innovations, enabling us to deliver state-of-the-art interconnect and cable assembly solutions in the medical device industry and beyond.



PFA Interconnect Capabilities

Environmental & Mechanical

Operating Temp Range: -55deg C to +135deg C
Mechanical endurance: 5k cycles
Vibration: >1μs @ 10-2000HZ, 20G
Shock: >1μs @ 50g
Locking System: Magnetic
Retention Force: 4lbs

Electrical Data

Contact resistance: <10mΩ
Test Voltage: 12k VDC
Current rating: 3A @ 10deg C temp rise

Certification

ISO13485 Certified

Global Manufacturing

Onanon's manufacturing facilities in the US (Silicon Valley) and Mexico enable us to provide both rapid prototyping and large-scale manufacturing solutions to our global customers.

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