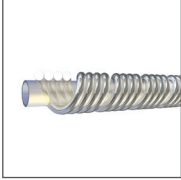
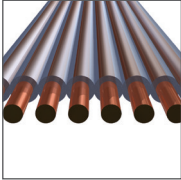
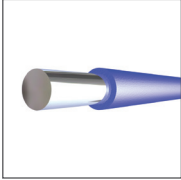
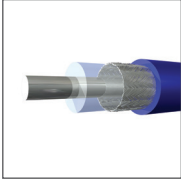


Precision manufacturer of specialty micro-miniature wire, cable, ribbon and coils for demanding applications. Value added services available.

Medical

Implantable and Minimally Invasive Wire and Cable

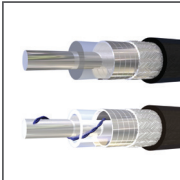
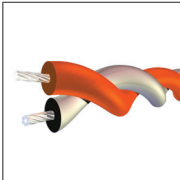
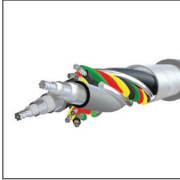
	APPLICATION	KEY FEATURES	CONSTRUCTION
Temp-Flex® MediSpec™ Micro Miniature Coil (MMC)  Series 100059	Implantable Neurological: Pain management and stimulation Cardiac rhythm management: pacemaker and defibrillator Minimally Invasive Catheter	Continuous length Outer jacket optional Stacked tolerances to $\pm 0.0254\text{mm}$ (0.001") OD down to 0.254mm (0.010") Highly flexible Biocompatible materials High dielectric withstanding voltage: >500V AC Pin-hole free insulation	Retractable mandrel Inner liner tube (<i>optional</i>): ETFE, others Conductors: 1 - 8 filars Insulation (<i>optional</i>) Jacket (<i>optional</i>): ETFE, Polyurethane, PFA, other biocompatible polymers
Temp-Flex® MediSpec™ High-Density Micro-Ribbon Cable  Series 100061	Implantable Therapeutics Pain management Glucose monitoring Minimally Invasive Imaging Endoscopy Ultrasound Flex circuit replacement Thermocouple	High density Tight pitch tolerance: $\pm 0.0127\text{mm}$ (0.0005") tolerance Lower Dielectric Constant than flex circuits: 2.1 Dielectric Constant (<i>Dk</i>) Pinhole free insulations Long continuous lengths Biocompatible materials Optional: Intermittent ribbon	Conductor Size down to 50 AWG Conductor Type: SPC, MP35N, precious metals, stainless steel Insulation: ETFE, PFA, nylon, others Pitch: Down to 0.076mm (0.003") Braid shield optional
Temp-Flex® MediSpec™ Micro Extrusion Primary Wires  Series 100060	Implantable Therapeutics Cardiac rhythm management leads Pain management Neuro leads Cochlear implants Minimally Invasive Catheters Endoscopy	Pin-hole free insulation Biocompatible materials Tight tolerance down to 5% Wire OD Thin wall Tightly controlled mechanical and electrical characteristics	Conductor Size: 52 to 36 AWG Conductor Geometry: Solid or stranded Conductor Type: SPC, MP35N, precious metals, stainless steel Insulation: ETFE, PFA and FEP fluoropolymers, nylon, PEEK, others Wall Thickness: Down to 0.00762mm (.0003") depending on wire gauge
Temp-Flex® MediSpec™ Micro Coaxial Cable  Series 100065	Ultrasound Patient monitoring Medical probe	Robust and flexible dielectric Alternative to PTFE and ePTFE tape wrapped constructions OD down to 0.24mm (0.0093") Optional ribbon and intermittent ribbon Biocompatible materials	Conductor size down to 44 AWG Conductor Material: SPC or high strength copper alloy (<i>solid, stranded</i>) Core (<i>Dielectric</i>): FEP, PFA Shield: Serve or braid (<i>SPC, high strength copper alloy, TPC</i>) Jacket Material: ETFE, FEP, PFA, THV, others

Medical

Implantable and Minimally Invasive Wire and Cable

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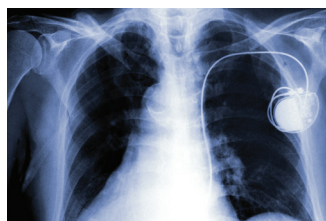
Precision manufacturer of specialty micro-miniature wire, cable, ribbon and coils for demanding applications. Value added services available.

	APPLICATION	KEY FEATURES	CONSTRUCTION
Temp-Flex® Microwave Coaxial Cable 	RF ablation Imaging	70 - 88% velocity of propagation Flexible Shielding effectiveness > 100 dB Down to 0.076mm (0.033") OD Time delay tolerance <±5 ps/ft Impedance: 50 ohms ±1 ohm	Signal Conductor Size: 32 to 17 AWG Solid or stranded conductors Signal Conductor Type: SPC Dual Monofilament: PFA Core Tube: High purity FEP Braid Type: SPC Jacket Material: FEP, Polyurethane, others
Series 100067 and 100054			
Temp-Flex® Twisted Pair 	Imaging catheters Ultrasound	Pin-hole free insulation Biocompatible materials Tight tolerance down to 5% wire OD Thin wall Tightly controlled mechanical and electrical characteristics	Conductor Size: 46 to 36 AWG Conductor Geometry: Solid or stranded Conductor Type: SPC, MP35N, precious metals, stainless steel Insulation: ETFE, PFA and FEP, others Shielding (<i>optional</i>)
Series 100064			
Temp-Flex® Bundled Cable 	Surgical instruments Imaging Ultrasound Endoscopy Diagnostics	Cabling our competencies into a robust solution Highly customizable	Choose Components: Primary, twisted pair, coax, twinax, triax, quad, ribbon cable Optional Shield: Serve, braid, foil Jacket: ETFE, FEP, PFA THV, PVDF, Polyurethane
Series 100062			

Temp-Flex products have applications in a variety of industries including:

Aerospace and Defense
Alternative Energy Source
Automotive
Commercial Vehicle
Consumer
Data/Computing
Industrial Automation
Telecommunications/Networking
Test and Measurement

Medical



www.molex.com/tempflex