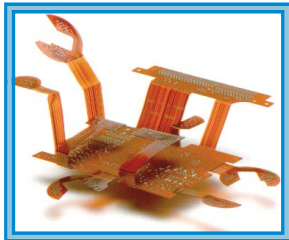


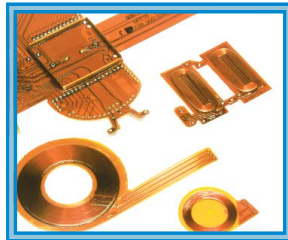
## The Proven Prescription: Products For The Medical Industry

### High-density, high-rel electronic interconnects



#### Flex-circuits

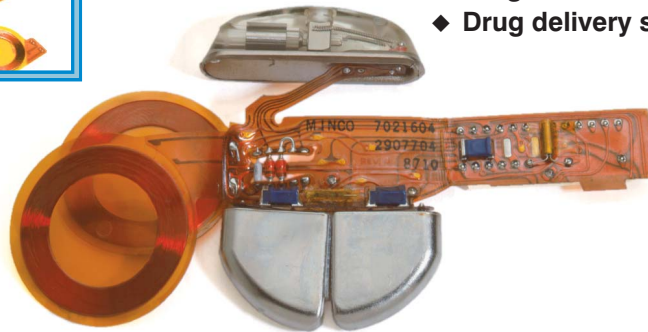
Fine line, single layer through rigid-flex



#### Flex-Coils™

Integral wire-wound inductive coils

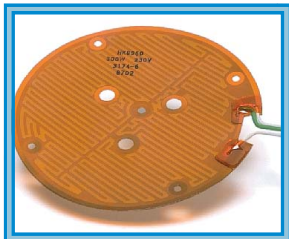
*A Minco flex-circuit links components inside a cardiac pacemaker. Two integral coils act as antennas for telemetry through the skin. The entire package folds inside the pacer's can.*



#### Applications

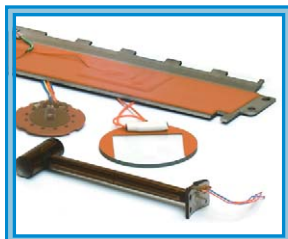
- ◆ Cardiac pacemakers
- ◆ Implanted cardiac defibrillators
- ◆ Nerve stimulators
- ◆ Surgical instruments
- ◆ Drug delivery systems

### Precise temperature control



#### Thermofoil™ heaters

Responsive foil element in any shape



#### Heater assemblies

Factory mounted to heat sinks, integral sensors



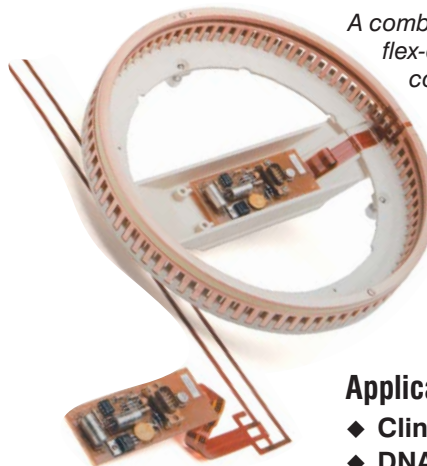
#### Temperature controllers

On/off to PID



#### Temperature sensors

Flexible Thermal-Ribbons™ or ultra-stable RTD probes



*A combination heater/sensor/controller/flex-circuit maintains temperature control of a fluid sample carousel. Minco assembles the entire unit.*

#### Applications

- ◆ Clinical diagnostic instruments
- ◆ DNA thermal cyclers
- ◆ Therapeutic devices
- ◆ Heating oximetry transducers
- ◆ Controlled temperature baths
- ◆ Drug warming
- ◆ NMR coils

**MINCO**  
ISO 9001

#### Minco Products, Inc. (Main Office)

7300 Commerce Lane  
Minneapolis, MN 55432-3177  
U.S.A.

Tel: 1-763-571-3121  
Fax: 1-763-571-0927

Stock order desk:  
Tel: 1-763-571-3123  
Fax: 1-763-571-9142



Internet:  
sales@minco.com  
www.minco.com

#### Minco S.A.

Usine et Service  
Commercial, Z.I.  
09310 Aston, France  
Tel: (33) 5 61 03 24 01  
Fax: (33) 5 61 03 24 09

#### Minco EC

Hirzenstrasse 2  
CH-9244 Niederuzwil  
Switzerland  
Tel: (41) 71 952 79 89  
Fax: (41) 71 952 79 90