OUR AMAZING WINDING CAPABILITIES

1000+ Turns: 6 Layers
58 AWG | 0.107 mm Diameter

CLEAN ROOM
Our clean room facilities are flexible and expandable. They can be configured to meet the specific needs of each unique project with maximum efficiency.

The clean room facility is ISO 14644 compliant, Class 100,000 (ISO8). It can be divided into two sections, each performing at different classification levels.

APPLICATIONS
- Surgical navigation & tracking
- Catheter positioning coils
- ENT probe positioning
- Implanted monitoring devices
- CT, PET and MRI scan coils
- Virtual reality training & rehabilitation
- Sensor enabled implants

MINIATURIZATION BENEFITS
- Design flexibility
- Less invasive
- Safe & accurate placement
- Enhanced sensing capability
- Reach otherwise inaccessible parts of body

Ultra-Fine Wire Winding
- In-house clean room
- 58 AWG
- Angular wire winding
- Value-add services
What is Ultra-Fine Wire Winding?

Ultra-fine wire winding is film insulated copper magnet wire of AWG 45 (.0018) to AWG 60 (.000309) that is wound with specialized winding and dereeling equipment designed to handle extremely small and delicate wire. These wires can be as small as 1/10th the diameter of a human hair, allowing for noteworthy miniaturization potential in inductive charging and signal receiving devices for a number of industries.

Patented technology and industry-leading expertise sets TT Electronics apart in the field of ultra-fine wire winding.

Ferrite Core
- 400 turns
- 48 AWG

Metal Core
- 1500 turns
- 58 AWG

Air Core
- 1200 turns
- 40 AWG

In-House Clean Room
- 1,000 square feet
- Class 100,000 (ISO8), ISO: 14644 compliant
- Scalable to individual projects

Angular Wire Winding
- Unique-in-the-industry angular winding configurations
- 55° angle to the coil axis
- Improve signal intensity for optimal sensing performance

Value-Add Services
- Full product integration
- Design expertise
- Expert handling
- Special fixtures
- Terminations/connections
- Microscopic soldering
- Testing

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