



Fiber Coil Winding Service

1st.Capablities

With a 5 year legacy of winding all types of precision optical fiber coils, Idealphotonics has the coil winding business unit with a team of highly experienced scientists, engineers, and winders, together capable of winding the best in optical fiber coils in accordance with customers' requirements. Cost effective and fast winding systems allow Idealphotonics to provide a complete range of products, from simple delay lines and payout spools to strategic quadrupole gyro coils of several kilometers in length. We provide optical fibers and then put them on the most appropriate stands whatever the material they are made of is (copper, aluminium, plastic...). We can also work without stand and realize optical fibers crowns. Otherwise, a wide range of optical fibers types (single-mode, multi-mode, PM, from UV to IR) and dimensions are available, a well as coating materials (polymer, polyimide...).

Finally, we are at your disposal in order to meet your expectations and to solve yours problems as regards fiber optic coil winding, size and components integration among others.

Our optical fibers spools lead to numerous applications in the fields of optical sensors, delay lines and fiber optic launch cables in particular.

2nd .Feathures

- •Using the quadruple method without paper in the process;
- High crosstalk and low attenuation;
- •It can be customized with different precious requirements;
- •The crosstalk is little change in full temperature condition;
- Flexible installation.

3rd .Application

- FOG
- FOCT
- Optoelectronic sensor system

4^{th} .Ordering information







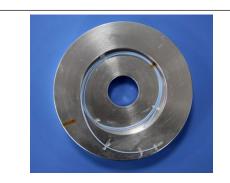
a.Coil structure parameters

specifications		
Fiber core diameter	From 13 mm to 500 mm	
Fiber external diameter	From 30 µm to 600 µm	
Fiber length	Up to 50 km	
Turn number per layer	From 8 to 250 turn	
Fiber tension	From 20 g to 2 kg	
Coating material	Polymer, polyimide, others	
Spool stand	Copper, aluminium, plastic, others	

b.Coil properlities

Items	Parameter	Unit
Coil inner diamete	1310/1550	nm
Crosstalk	<-18	dB
Attenuation	<1.0	dB/km

All kinds of fiber coil



Current Transformer Delay Coil

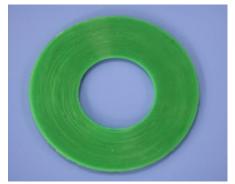


Large-size High-precision Coil









Small Size Without Skeleton Coil



All Off Fiber Optic Coil



Oval Coil



High Precision Side Tropsch Coil



Small Size Cylindrical Coil



Small Size Oval Coil