

Delay Coil for Current Transformer

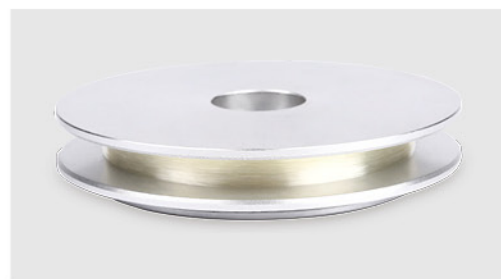
High birefringence polarization-maintaining fibre is selected as the delay coils for YOFC current transformer. The whole winding process is controlled by low tension and special solidified adhesive to ensures the overall polarization-maintaining performance of the delay coil. The full-temperature crosstalk has less fluctuation, and it has excellent temperature characteristics and environmental stability. It can be used in optical fibre current sensor and other fields. The size of this series of delay coils can be customized according to the special needs of customers.

Characteristics

- Low polarization crosstalk
- Small temperature error
- High long reliability
- Customized size

Applications

- All-fibre-optical current transducer
- Current transformers for high accuracy



Specifications

Product Type	CN1-a/a-PMb-c* ^①
Geometric Parameter	
Optical Fibre Length (m)	80 - 500
Optical Fibre Coil I.D. (mm)	15 - 250
Optical Fibre Coil O.D. (mm)	25 - 260
Optical Fibre O.D. (μm)	135, 165, 250
Optical Parameter	
Wavelength (nm)	1310 or 1550
Polarization Crosstalk (dB)	≤ -30
Full-temperature Crosstalk Change (dB)	≤ 1.0
Loss (dB/km)	≤ 1.0
Operating Temperature Range (°C)	-45 to +85

*^①CN1-a/a-PMb-c, a/a means skeleton type, b means PM fibre type, and c means coil length