

Specialty Optical Delay Coil

Optical Fibre Delay Coil

Optical signal can not only transmit signal through optical fibre delay coil, but also obtain optical signal with delay. The delay of optical fibre delay line is determined by the length of the optical fibre and the propagation speed of the light in the optical fibre. Optical fibre delay coil of YOFC is wound by precision winding machine, which has high delay precision, compact structure, anti-seismic and anti-radiation design. We can customize different types and lengths of optical fibre delay coil according to customers' requirements.

Characteristics

- Customized delay length
- Various models of optical fibre
- Broad-spectrum respond
- Low vibration sensitivity
- Low additional loss

Applications

- Optical buffer in photosystems
- Time delay of photoelectric oscilloscope
- Phased array radar
- Switching, buffering and routing of optical packets



Specifications

Product Type	DA-a-b/b-c/c-d*①
Wavelength (nm)	850, 1310, 1550
Delay Time Range (μs)	0.1 - 300
Delay Time Accuracy	±0.01μs@0.1 - 10μs
	±0.1%@10 - 300μs
Insertion Loss (dB)	0.1 (dB/μs) × Delay(μs) + 1.0
Relative Variation of Delay with Temperature (ppm/°C)	≤6.5
Return Loss (dB)	≤55.0
Extinction Ratio (PMF)(dB)	≤ -30 @0.1 μs
Operating Temperature Range (°C)	-40 to +85
Storage Temperature Range (°C)	-60 to +85

*①DA-a-b/b-c/c-d, a means delay time, b/b means connector type, c/c means skeleton and shell type, and d means fibre type