



IDIL and Photonics Bretagne launch a new range of anti-resonant hollow-core fibre optic cables. They combine low latency data transmission, high bandwidth connections and low loss; three features highly sought after by high frequency trading.

### Main characteristics

- Low latency data transmission
- High bandwidth transmission
- Easy to integrate into existing networks
- Custom lengths, number of fibres, connectors...

### Applications

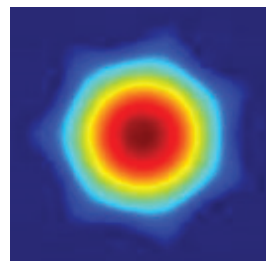
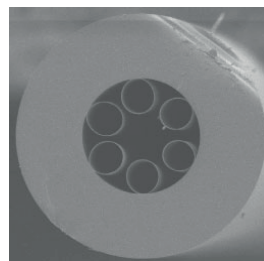
- Telecom & 5G mobile networks
- Financial trading
- Data centre
- Cloud computing
- Quantum communication

### Cable specifications

Type	Hollow-core cables
Operating temperature range (°C)	-40 to +60
Traction (N)	1000
Loss @ 1550nm (dB/km)	< 10
Transmission L=100m (Gb/s NRZ)	10
Inter server distance	From few meters to kms
Light speed gain (µs/km)	+ 1,7 <sup>(1)</sup>
Cable and termination	For indoor and outdoor use

<sup>(1)</sup> 50 % faster than in solid core fibres

### ARF : Anti-Resonant Fibres



Optical signal in the fibre propagates in an air core surrounded by single ring of anti-resonant tube elements

### Example of fibre terminations

