



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.



Product line **PERFES**

MAIN CHARACTERISTICS

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

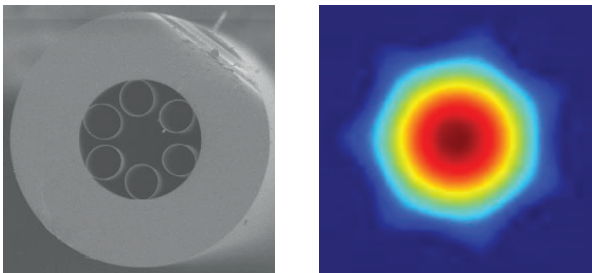
APPLICATIONS

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

| CABLE SPECIFICATIONS | 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 ⁽¹⁾ |
| Cable and Termination | For indoor and outdoor use |

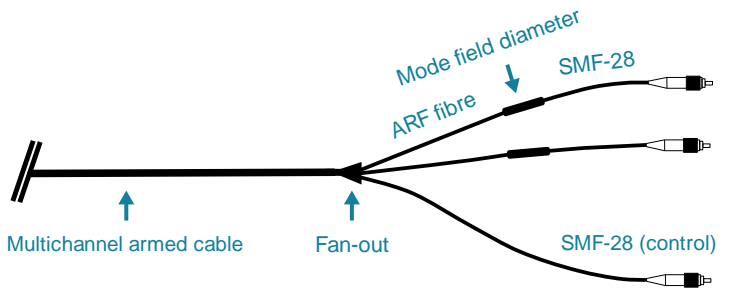
⁽¹⁾ 50 % faster than in solid core fibres

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



Multiple options and configurations are available. Please contact Photonics Bretagne to find the best fit.
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