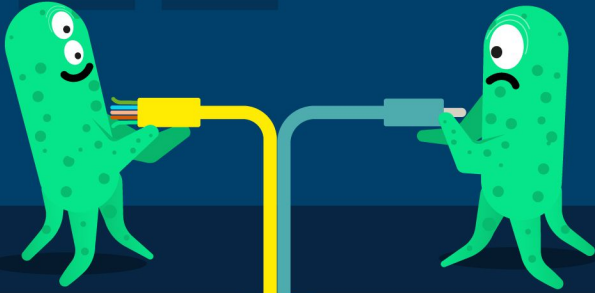


# Fiber vs Coax - a compelling comparison

Simplify the solution with *ViaLite's* RF over Fiber

**ViaLite RFoF links have far greater capacity than traditional coaxial cable.**

*ViaLite* offers up to 96 simultaneous channels with DWDM compared to coax's solitary one channel.

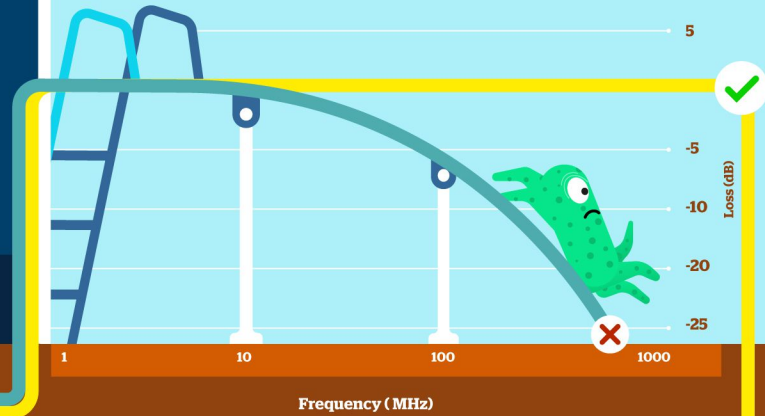


— Fiber wire  
— Coax wire

**Coax loss slides off the chart!**

Single mode fiber has very low loss over long distances (less than 0.5 dB/km) maintaining the dynamic range.

**Loss vs Frequency Comparison for 1 km Fiber & 100 m Coaxial Cable**



**Light signals sent over fiber cannot be intercepted without breaking cables; providing security against signal interception.**

Coax can be intercepted without the receiver noticing!



**ViaLite's RFoF is not distance-limited, covering over 600 km+ unlike coax which only goes to 100 m (approx.).**

Plus, the cost of fiber cable is on its way down while the cost of copper is going up!

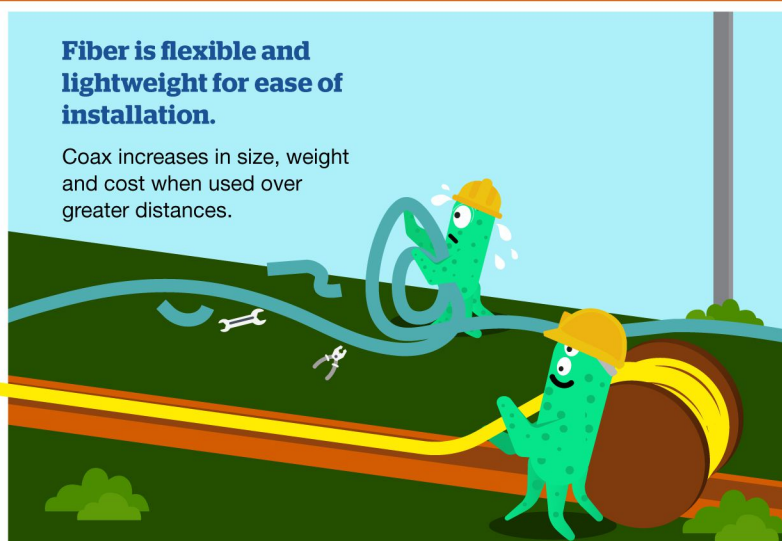


**Unlike coax, fiber is non-conductive making it immune to EMI, RFI and the effects of a lightning strike.**



**Fiber is flexible and lightweight for ease of installation.**

Coax increases in size, weight and cost when used over greater distances.



**Go further with fiber**

Source: [www.vialite.com](http://www.vialite.com)

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