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Fibre-optic tethering is a powerful solution for stationary surveillance or electronic warfare environments where radio links cannot survive. It trades range for absolute reliability.

When electronic warfare made standard radio-controlled FPV drones unreliable, engineers ran a hair-thin fiber-optic cable from drone to operator. The result is a weapon that cannot be ...

Fiber optic drones solve RF jamming issues for secure ISR. Learn the tech behind tethered UAS, the critical role of ruggedized fiber, and why PHILISUN interconnects are essential.

On the other hand, the fiber optic transmissions simply cannot be jammed remotely due to the complete immunity of the optical fiber to electro-magnetic interference (EMI).

The Ukrainians recently captured a Russian drone which communicates via a fiber-optic link, making it jam-proof. This looks like a big headache and not just for Ukraine.

Ukraine debuts fiber-optic kamikaze drones that fly 12 miles undetected, bypassing Russian jamming with high-stability, long-range control.

The extracted signal is re-circulated back into the delay line, thereby effectively stretching the sample for highly efficient jamming. The jamming system is effective in countering burst...

This blog explores the principles that make fiber optic communication so secure and immune to interference, drawing lessons from the use of fiber optic drones in modern warfare.

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Electronic warfare is constantly evolving, and fiber optic drones are emerging as an indispensable solution. But what's the reality? Are they the ultimate answer to electromagnetic ...

Fiber-optic FPV drones maintain a physical connection to the operator through spooled optical fiber, eliminating radio frequency communications entirely. The attack surface that jamming ...

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