

Aerospace Electronics Ukraine s Fiber Optic Passive Components

The development of Ukrainian fiber-optic-controlled UAS began in 2023 in response to the demands of Ukrainian service members. During testing, the drones successfully navigated water ...

Ukrainian engineers have developed a drone powered by a fiber-optic cable, making it impervious to enemy electronic warfare (EW) and radio reconnaissance systems

Both Russia and Ukraine are using "jam-proof" drones that use fiber-optic cables. However, these drones have vulnerabilities that both countries will soon exploit.

Fiber-optic drones are a major challenge for Ukrainian forces. Discover how the military is countering this threat, from nets to mobile shooter teams.

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Over seven months of fighting, Russian fiber-optic drones helped render Ukraine's presence in the Kursk region increasingly unsustainable. Ukrainian forces ultimately withdrew back ...

Since the beginning of 2025, the Defense Procurement Agency of the Ministry of Defense of Ukraine has signed over 40 contracts for the supply of drones equipped with fiber optic ...

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According to Smetanin, the drones are capable of covering significant distances, and the use of fiber-optic systems makes them immune to enemy radio interference, greatly increasing their ...

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Across the battlefield, both Ukraine and Russia are using fiber optic cables instead of radio waves to connect many of their first-person view (FPV) drones with their controllers.

The company's operational experience with fiber-optic systems on the Ukrainian frontline has generated valuable insights for improving both training protocols and technical procedures.

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Production has expanded steadily, supported in part by new European facilities supplying components and propellants to reduce the vulnerability of Ukraine"s domestic drone industry to ...

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