

## Antennas improve signal propagation, save space



W. L. Gore & Associates has developed new cable-based antennas (often referred to as leaky lines or leaky feeders) that improve signal propagation without increasing the amount of hardware required on an airplane. Ideal for both wide-body and single-aisle passenger aircraft, GORE Cable-Based Antennas provide reliable access to different wireless protocols so passengers can easily connect to in-flight entertainment, Internet servers, and email accounts. GORE Cable-Based Antennas are easily installed along the length of the cabin ceiling, and passengers are assured reliable access. Passengers' signals are transmitted via a signal network computer and outside antenna to satellites that connect to the worldwide network. Unlike typical broadband technology, the versatile GORE Cable-Based Antenna reduces airline costs, requiring only one set of hardware to service the entire aircraft. This lightweight antenna sends and receives signals in frequencies ranging from 400 megahertz to 6 gigahertz, so it's compatible with numerous communication standards, including Bluetooth, DECT, DECT2, Global Star, GSM, IRIDIUM Sat, MMS, PDC, TETRA, UMTS, WLAN 802.11 a/b/g, and WiMAX.

W.L. Gore and Associates

+44 1382 569245, [www.gore.com/aerospace](http://www.gore.com/aerospace) [1].

**Source URL (retrieved on 01/29/2015 - 3:47pm):**

[http://www.ecnmag.com/products/2012/07/antennas-improve-signal-propagation-save-space?qt-video\\_of\\_the\\_day=0](http://www.ecnmag.com/products/2012/07/antennas-improve-signal-propagation-save-space?qt-video_of_the_day=0)

**Links:**

## **Antennas improve signal propagation, save space**

Published on Electronic Component News (<http://www.ecnmag.com>)

---

[1] <http://www.gore.com/aerospace>