

INO – CAT6A U/FTP

CAT6A U/FTP – 8 m/16 m/33 m



INO – CAT6A U/FTP

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INO-CAT6A U/FTP cable – Optimized for U-BRIDGE 3 and TOGGLE ROOMS XT

High-performance CAT6A U/FTP cable for seamless, secure, and reliable high-speed data transmission.



The INO-CAT6A U/FTP cable, designed to optimize INOGENI's [TOGGLE ROOMS XT](#) (4K BYOD/BYOM 3 host switcher for USB/HDMI with an extension) and [U-BRIDGE 3](#) (USB 3.2



tested with HDBaseT 3.0 standard. This solid copper wire cable ensures rapid, stable, and secure data transfer. It is perfect for critical pro-AV applications. Its individually foil-shielded design minimizes external and internal interference. Backed by INOGENI's renowned engineering and 2-year warranty, this cable guarantees the utmost stability, protection, and data integrity.

U/FTP Design: The U/FTP (Unshielded Foiled Twisted Pair) construction adds an extra shielding layer around each wire, providing enhanced protection against crosstalk and EMI/RFI. This design ensures clean, uninterrupted data transmission, which is essential for high-performance AV data transmission.

Key features & benefits:

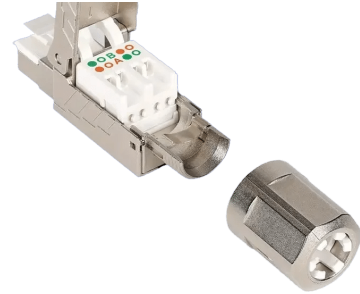
- **HDBaseT 3.0 standard:** Tested to meet HDBaseT 3.0 standard and optimized for U-BRIDGE 3 and TOGGLE ROOMS XT
- **Superior shielding:** Individually foil-shielded pairs eliminate internal and external alien crosstalk, ensuring excellent signal isolation and data integrity.
- **EMI/RFI protection:** Provides outstanding protection against electromagnetic and radio frequency interference, critical for maintaining data security in busy environments.
- **Durable solid copper construction:** Built with 23 AWG solid copper wires for enhanced durability, long-term stability, and better performance compared to traditional cables.
- **Fire safety rated:** CMR (riser) fire rating guarantees the highest safety standards for building installations.
- **Enhanced performance headroom:** Optimized design increases CAT6A performance beyond standard cables, delivering better reliability
- **High-quality shielded modular plugs,** optimizing transmission speed, integrity and stability. The module plug can be **re-terminated** to the INO-CAT6A cable to adjust the appropriate length.



compatible products.

INOGENI SKUs (Made in Canada)

- | | |
|--------------------|---------------------|
| » INO-CAT6A – 8 M | 8 meters (25 ft.) |
| » INO-CAT6A – 16 M | 16 meters (50 ft.) |
| » INO-CAT6A – 33 M | 33 meters (100 ft.) |



- **Backed by INOGENI's 2-year warranty:** Built to last with the reliability, stability, and top-notch performance INOGENI is known for, supported by a comprehensive 2-year warranty.

Specifications:

- **Meet HDBaseT 3.0 standard**
- **Shielding:** U/FTP (Unshielded Foiled Twisted Pair)
- **Conductor Type:** Solid copper
- **Gauge:** 23 AWG
- **Fire rating:** FT4/CMR/FPLR
- **Color:** White
- **High-quality metal/plastic cover connectors**
- **Made in Canada and a 2-year warranty**

Choose the Right Cable for Reliable Signal Transmission

INO-CABLE CAT6A: Unmatched Performance & Stability

INOGENI recommends using the **INO-CABLE CAT6A** to ensure optimal signal transmission and maximum reliability. While other cable manufacturers may provide varying performance levels, INOGENI's lab has conducted extensive tests to give you the flexibility to choose your preferred cable brand.

How we conduct the CAT6A U/FTP test

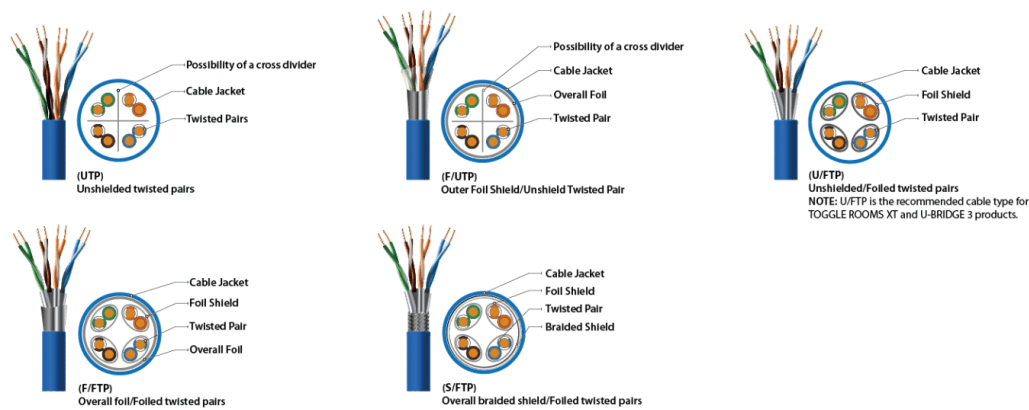
Comprehensive integrity testing of the CAT6a cable with the HDBaseT 3.0 protocol for videoconferencing applications was conducted to ensure flawless performance in high-demand environments. The test involved uncompressed 4K video at 30 and 60 frames per second (4K30 and 4K60) and audio data transfer in videoconferencing mode.

The following configurations were utilized:

- **USB transmission** via HDBaseT-USB3 for the **U-BRIDGE 3**
- **USB and HDMI transmission** via HDBaseT 3.0 for the **TOGGLE ROOMS XT**.

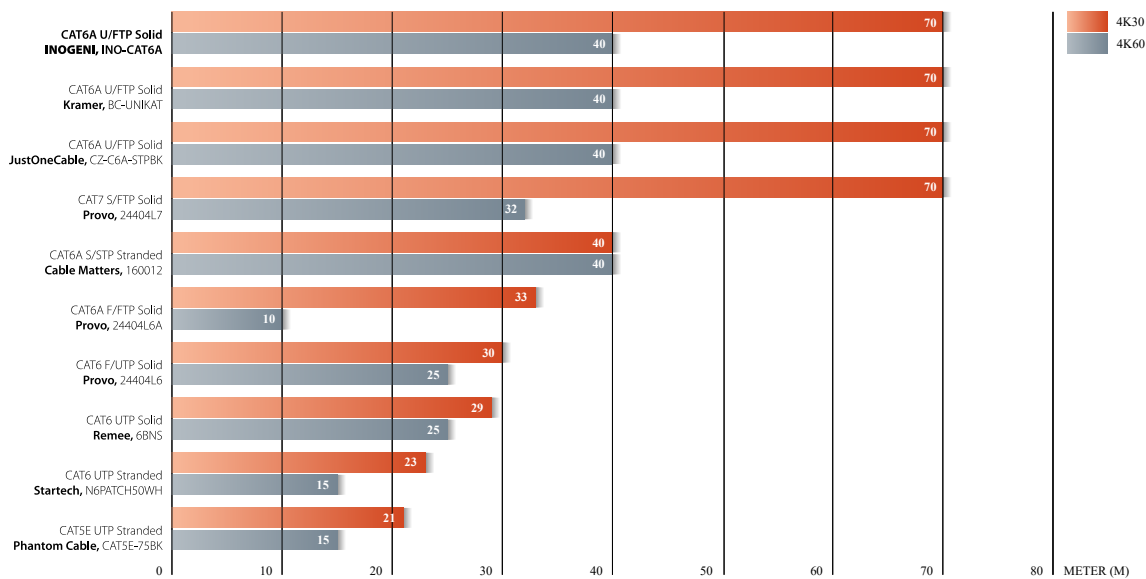
Data transfer was maintained at a high bit rate, including 4K60, over a continuous **2-hour transmission period**. This rigorous evaluation ensures that the CAT6a cable consistently delivers reliable, high-performance data transfer for critical AV and conferencing setups.

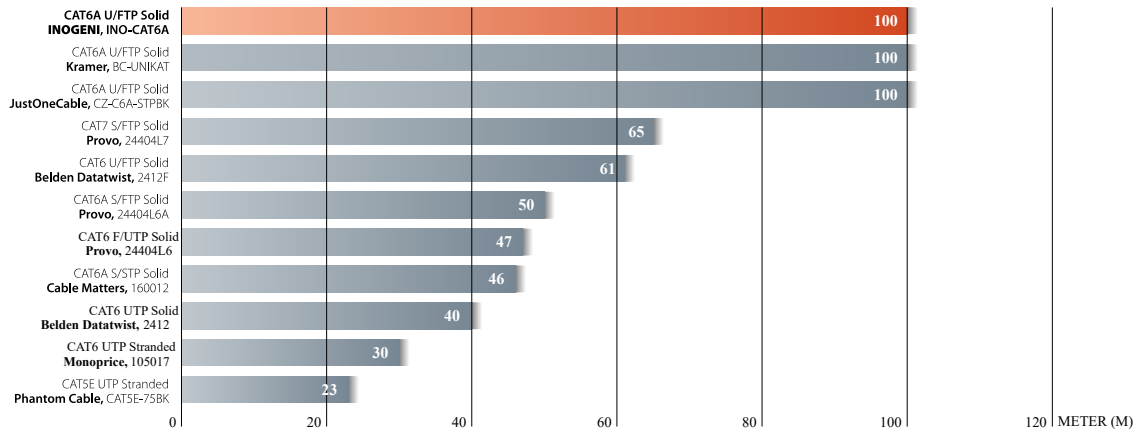




Test results:

TOGGLE ROOMS XT - 3 HOST SWITCHER FOR USB/HDMI WITH AN EXTENSION
4K30 and 4K60 transmission integrity testing over CAT6A U/FTP via HDBaseT 3.0
Cable length achieving the performance (m)





NOTES:

- We do not recommend using a crimp tool for attaching terminations. Instead, we highly recommend utilizing toolless terminations to ensure the preservation of signal integrity.
- The measures above are taken from a direct point-to-point connection without patch cords. If your install uses patch cords, the range and signal integrity might be reduced depending on the type of patch cord used. For example, CAT7 patch cords are better in terms of signal integrity conservation than CAT6A.
- HDBaseT 3.0 recommends CAT6A U/FTP cables. They offer the best range and signal integrity.
- CAT7 and CAT6A S/STP cables seem to be the best alternatives without significant distance loss.
- Not all CAT6A cables work well with HDBaseT 3.0.
- Bare/structural cable is ~30% better than stranded cable.
- INOGENI conducted these tests in our video lab using our devices and equipment from major videoconferencing brands. These results are for reference only and may vary with other labs or manufacturers. We offer no warranty for compatibility or performance with brands other than INOGENI products.



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