

LED Video Panel

LED video panels are the backbone of many large-scale displays in concert venues, stadiums, and digital advertising. Their performance is highly dependent on a reliable network and power connection. These systems are subjected to physical movement, high-bandwidth signal transmission, and power fluctuations, all of which can compromise video quality and system stability.

Operational Challenges in LED Video Panels

- **High-Bandwidth Signal Transmission:** Video panels require a clean and stable signal to display content correctly, with any interference causing visual artifacts or a complete loss of signal.
- **Physical Stress:** Frequent setup, teardown, and live event conditions subject cables to bending, pulling, and crushing, leading to wear and tear.
- **Vibration and Shock:** Loud music, heavy foot traffic, and physical movement can dislodge standard connectors, causing power or data interruptions.
- **Remote & Temporary Setups:** Locations with limited access and high stakes demand long-life, low-maintenance solutions that can be deployed quickly and reliably.

Cable & Connector Applications in Key Systems

- **Live Event Production:** Cables ensure seamless video, audio, and control transmission for concerts, festivals, and televised events, where a signal loss is unacceptable.
- **Stadium & Arena Displays:** High-performance cables support real-time video and graphics, critical for scoreboards, instant replays, and crowd engagement.
- **Mobile & Temporary Setups:** Secure, durable connectors are essential for quick and reliable deployment and tear-down, reducing setup time and potential for error.

Commonly Used Connectors and Cables

- **Etherlatch:** These cables and connectors feature a latching mechanism that ensures a secure, locked connection that prevents accidental disconnection for the category cable connection. The cables are available in Cat 5e and Cat 6 variants, providing robust and reliable data transmission.
- **Powerlatch:** These cables and connectors are designed specifically for power needs, the secure latching connection guarantees a consistent power supply, preventing power drops that can cause panels to flicker or shut down.

LED Video Panel

