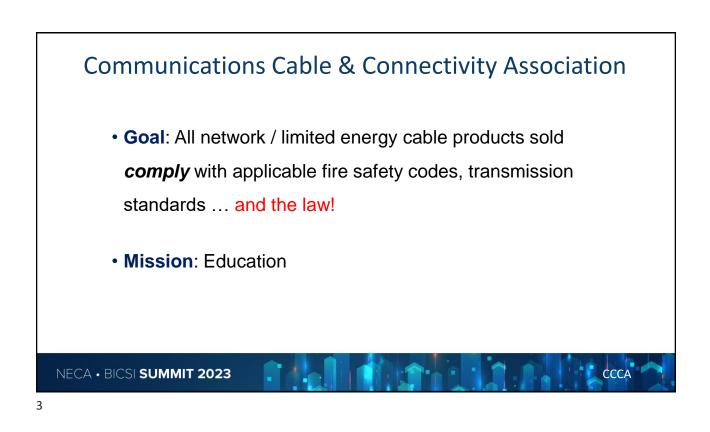
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Non-Compliant and Counterfeit Cable

How smart infrastructure can become dangerously dumb

David B. Kiddoo
Communications Cable & Connectivity Association







National Electrical Code Requirements



800.179 Communications Wires and Cables "Communications wires and cables shall be listed in accordance with 800.179(A) through (I) and marked in accordance with Table 800.179. Conductors in

communications cables, other than in a coaxial cable, shall be copper."

- **CMP** Communications Plenum
- **CMR** Communications Riser
- CM Communications General Purpose

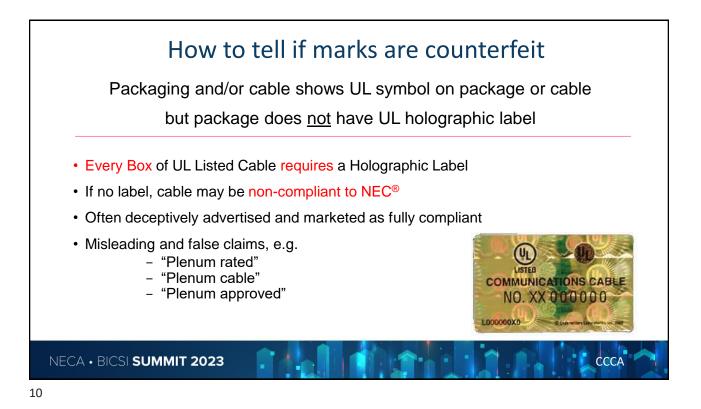


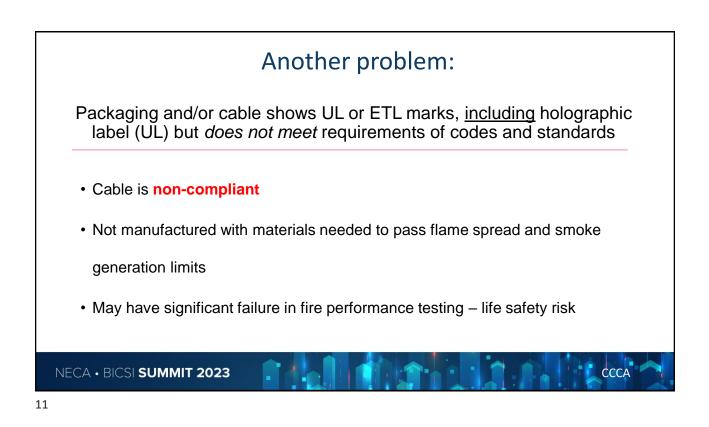


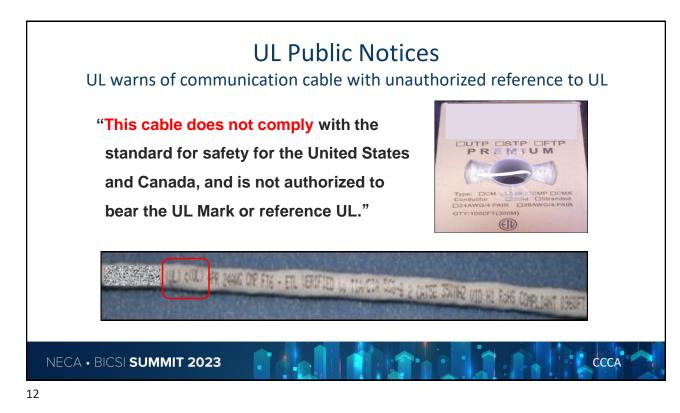


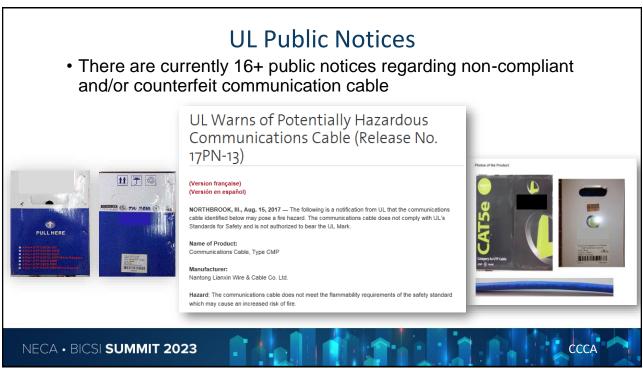


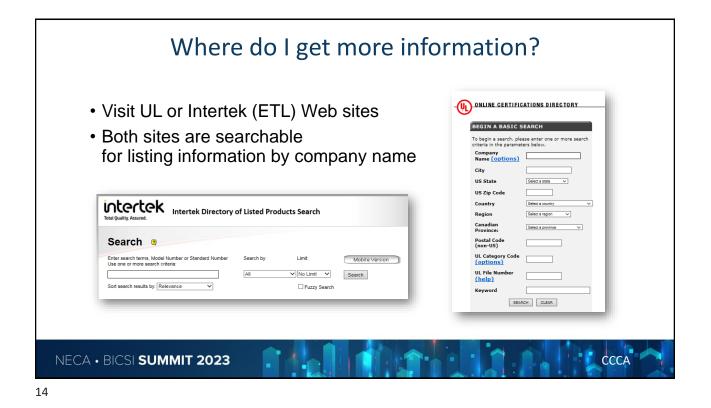




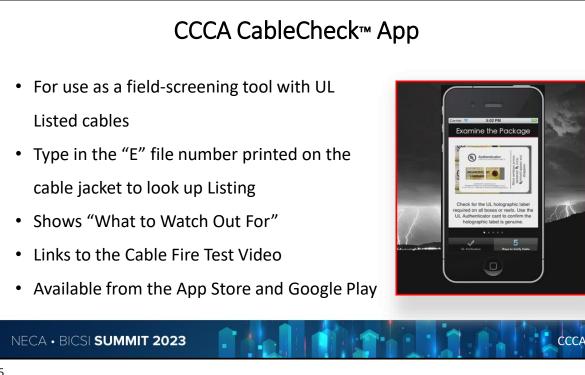






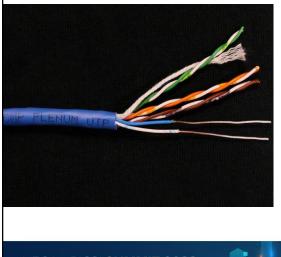


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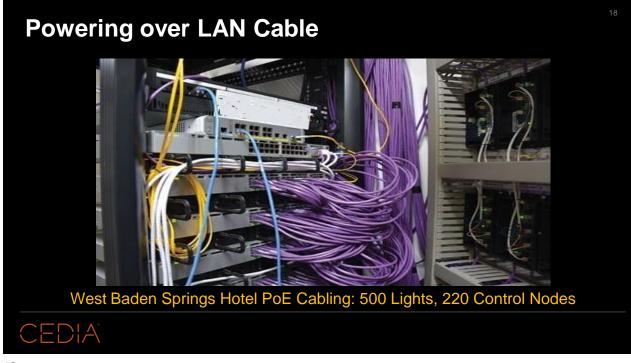
Counterfeit Cable Hiding in Plain Sight

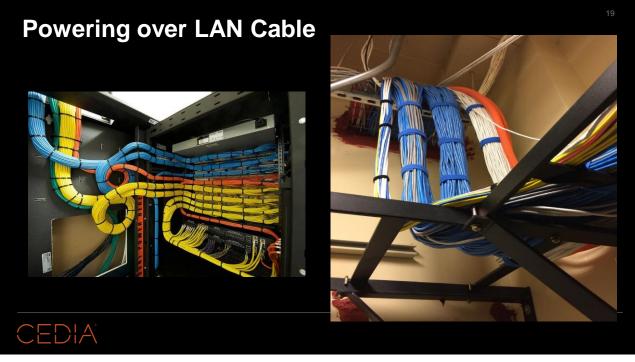


Copper Clad Aluminum (CCA) Conductors

- Not allowed for network / PoE cables
- Would never be Listed by any listing agency
- Many sites selling this cable refer to it as "cost effective"
- Significant fire safety / overheating threat





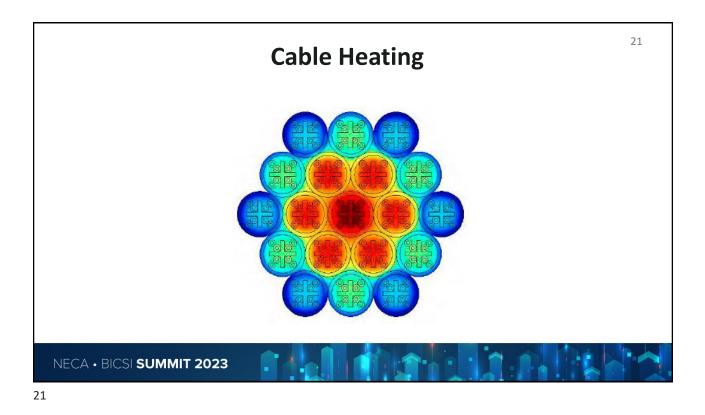


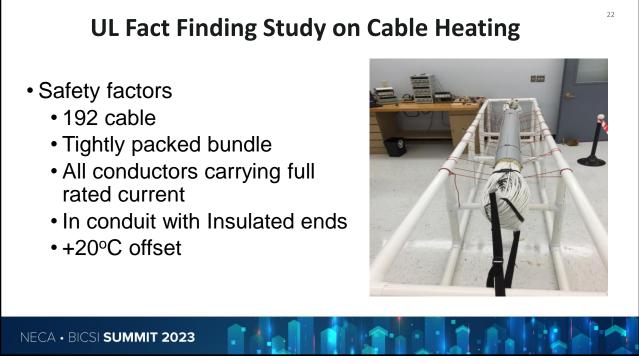
Powering over LAN Cable Safety Concerns

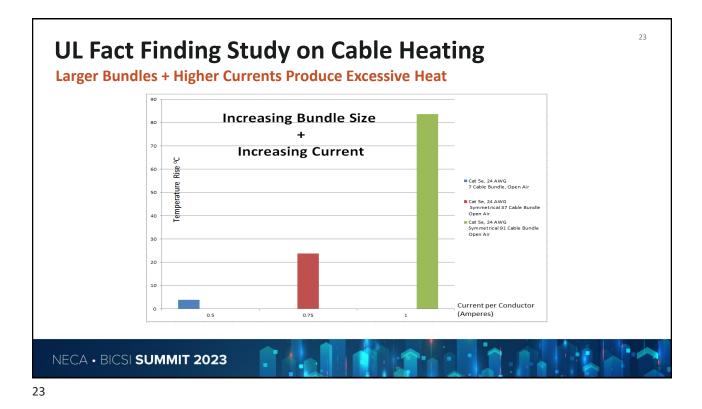
- · Power levels have been steadily increasing
- Power levels and power density will continue to increase
- Cables are often installed in bundles
- · Bundles result in a cumulative heating effect
- · Heat is trapped
- · Cables (especially at the center of the bundle) can overheat
- · Safety and performance can be compromised

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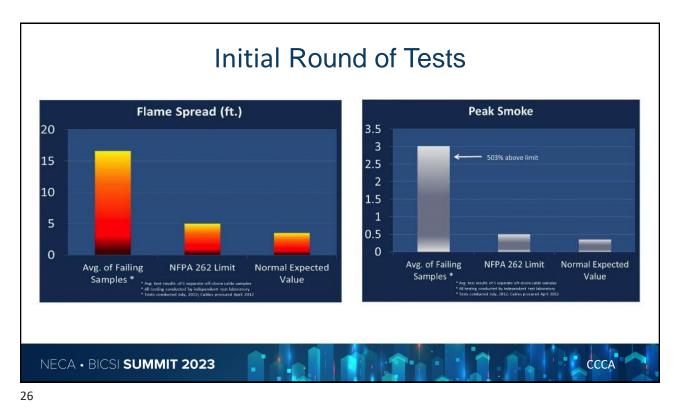


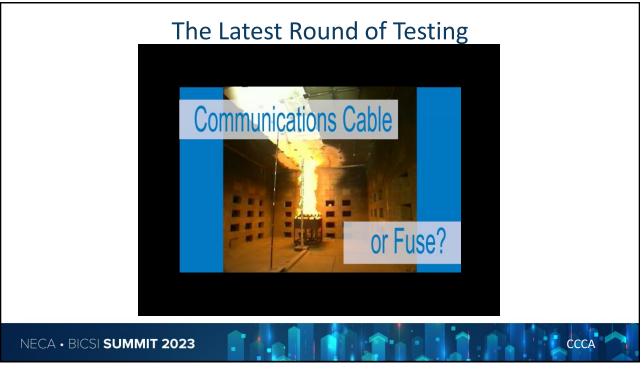




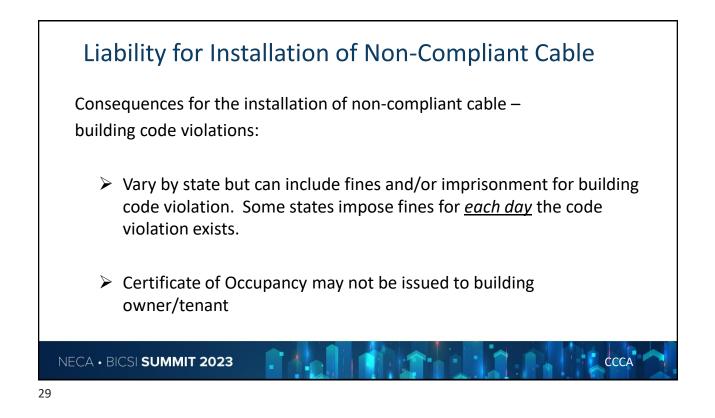




















What You Can Do to Protect Your Company, Your Customers and the Public!

- Long term due diligence is vital.
- Industry media and educational events
- UL and Intertek public notices
- www.CCCAssoc.org
- CableCheck[™] app
- Buy known brands



• If unknown brand, require written proof of Listing or verification

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Thanks for Listening!

David B. Kiddoo Executive Director

Communications Cable & Connectivity Association