Entertainment Services and Technology Association

American National Standard E1.16 - 2002 (R2007) Entertainment Technology Configuration Standard for Metal-Halide Ballast Power Cables

EP/2000-7007r4

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The ESTA Technical Standards Program

The ESTA Technical Standards Program was created to serve the ESTA membership and the entertainment industry in technical standards related matters. The goal of the Program is to take a leading role regarding technology within the entertainment industry by creating recommended practices and standards, monitoring standards issues around the world on behalf of our members, and improving communications and safety within the industry. ESTA works closely with the technical standards efforts of other organizations within our industry including USITT, PLASA, and VPLT as well as representing the interests of ESTA members to ANSI, UL, and the NFPA. The Technical Standards Program is accredited by the American National Standards Institute.

The Technical Standards Committee (TSC) was established by ESTA's Board of Directors to oversee and coordinate the Technical Standards Program. Made up of individuals experienced in standards-making work from throughout our industry, the Committee approves all projects undertaken and assigns them to the appropriate working group. The Technical Standards Committee employs a Technical Standards Manager to coordinate the work of the Committee and its working groups as well as maintain a "Standards Watch" on behalf of members. Working groups include: Camera Cranes, Control Protocols, Electrical Power, Floors, Fog and Smoke, Followspot Position, Photometrics, and Rigging.

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The Electrical Power Working Group, which authored this standard, consists of a cross section of entertainment industry professionals representing a diversity of interests. ESTA is committed to developing consensus-based standards and recommended practices in an open setting. Future Electrical Power Working Group projects will include updating this publication as changes in technology and experience warrant, as well as developing new standards and recommended practices for the benefit of the entertainment industry.

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[U] users
[G] general interest

Entertainment Technology -- Configuration Standard for Metal-Halide Ballast Power Cables

1 Scope

This standard describes a standard practice for grounding contact assignment for detachable power cables on 6kW, 12kW and 18kW metal-halide lamp ballasts used in the motion picture and television industries on portable studio luminaires that use the MIL-C-5015 connector with #28-6 insert configuration on the ballast end of the power cable.

2 Purpose

The use of a standardized pin assignment will reduce the possibility of ballast chassis to ungrounded power conductor connections caused by mismatched cables and ballasts.

3 Requirements

Connectors on detachable power cables for use on 6kW, 12kW and 18kW metal-halide lamp ballasts with MIL-C-5015 equivalent #28-6 insert configurations (one-piece construction) and contact configuration (screw machine) shall designate the “A” position as the grounding contact. This shall be extended for mate first/break last operation.

Front view of the male connector