

Duraline

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DURALINE LIGHTING PRODUCT TEST REQUIREMENTS

Dielectric - A test potential of 1960 volts is used between the primary conductors tied together and the protective ground conductor for one minute. There shall be no occurrence of breakdown.

Leakage Current - Leakage current is measured between the primary conductors and the protective ground conductor. When tested at the rated operating voltage, the leakage current shall not exceed .5mA.

Flame-Retardant - Flammability tests are conducted on the cable and the molded body of the sockets. These materials are subjected to five flame applications on for 15 seconds and off for 15 seconds. After all applications, the materials shall self-extinguish before one minute upon removal of the flame and shall not burn through.

Temperature Test – Each sample was powered by rated voltage and current until the temperature stabilized. No sample had a significant temperature rise above ambient. This is satisfactory.

Flex Test - No detachment or loosening shall result when the socket is subjected to a 5000 cycle flex test at the cable/bond area back and forth in a plane through an angle of 180 degrees. Following the flex test a satisfactory dielectric test is to be performed.

Watertight (Immersion) Tests (Vapor Proof Sockets Only) - Vapor Proof Handlight for use in Class I, Division 2, Group D hazardous locations. The completed socket assembly units shall not degrade dielectrically or have a leakage current of greater than .5mA while immersed in 3 ft. of water. No water shall reach the socket bulb area.

Vapor Proof Streamer Sockets (Block and Hanging Style) Although the construction is identical to the Vapor Proof handlight (less handle) they do not carry the Class I, Division 2, Group D hazardous locations approvals. The completed socket assembly units shall not degrade dielectrically or have a leakage current of greater than .5mA while immersed in 3 ft. of water. No water shall reach the socket bulb area. These sockets are suitable for IEC Class IP67 and Nema 6 indoor / outdoor wet location applications.

Heavy Duty 2 and 3 wire sockets are suitable for IEC Class IP67 and Nema 6 indoor / outdoor wet location applications. Lamp sockets have been tested to seal out water per MIL-F-16377/39A, MIL-F-16377G and MIL-STD-108E (3' of water for 1 hour) if accidentally submerged. While they have been tested and approved this practice is not recommended as hot lamps may burst when contacting cold water creating a safety hazard. Use of lexan rain guards, rough service coated lamps and GFCI protection increase overall system safety. Budget Miser sockets are not built to a Mil Standard but have been tested to seal out water.

Lighting Streamers – Lighting Streamers were fitted with 10, 25 and 100 watt bulbs respectively. Each assembly was powered by a 138 Vrms, 60 HZ supply. These tests indicated the equipment is operating within its rated capacity limits for its materials of construction.