



ANSI/NEMA C136.33-2005

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American National  
Standard for Roadway  
Lighting Equipment -  
Plug-in Type Receptacle  
and Plug for High-  
Intensity Discharge  
Lamp Ignitors



**National Electrical Manufacturers Association**  
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# American National Standard



## *For Roadway and Area Lighting Equipment – Plug-in Type Receptacle and Plug For High-intensity Discharge Ignitors*

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Secretariat: National Electrical Manufacturers Association

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## 1 Overview

### 1.1 Scope

This standard covers the physical features, dimensions, and electrical requirements of mating receptacles for plug-in type high-intensity discharge lamp ignitors used in roadway and area luminaires. The receptacle shall provide electrical connections so that it may be used for 52-, 55-, or 100-volt high-pressure sodium ignitors, either two-wire or three-wire, and also be used for metal halide ignitors.

This standard does not cover the electrical and mechanical properties of the ignitor, except for the dimensions, electrical ratings, and characteristics of the plug that are necessary to ensure proper interface and compatibility with the receptacle.

This standard is not intended to ensure electrical compatibility between manufacturers' control components, but solely specifies the interface between luminaire and ignitor.

### 1.2 Interchangeability

This receptacle shall be used when a universally interchangeable 9-pin ignitor receptacle is user specified and shall not be otherwise required. This receptacle is intended for use only with ignitors rated as universal interchangeable ignitors or when specified by the ignitor manufacturer for use in a designated luminaire or group of luminaires.

## 2 Normative references

This standard incorporates by undated reference provisions from other publications. The normative references are cited at the appropriate places in the text, and the publications are listed below. For undated references, the latest edition of the publication referred to applies (including amendments).

ANSI C136.2-2004, *American National Standard for Roadway and Area Lighting Equipment – Luminaires – Voltage Classification*.

UL 94, 1996, *Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances*.