



ANSI/NEMA C136.33-2005

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



National Electrical Manufacturers Association
1300 North 17th Street, Suite 900 • Rosslyn, VA 22209
www.NEMA.org

Currently in preview, click buy full version



American National Standard



For Roadway and Area Lighting Equipment— Plug-in Type Receptacle and Plug For High-intensity Discharge Luminaires

Approved April 14, 2005

Secretariat: National Electrical Manufacturers Association

An American National Standard implies a consensus of those substantially concerned with its scope and provisions. An American National Standard is intended as a guide to aid the manufacturer, the consumer, and the general public. The existence of an American National Standard does not in any respect preclude anyone, whether he has approved the standard or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standard. American National Standards are subject to periodic review and users are cautioned to obtain the latest editions.

The American National Standards Institute does not develop standards and will in no circumstances give an interpretation of any American National Standard. Moreover, no person shall have the right or authority to issue an interpretation of an American National Standard in the name of the American National Standards Institute.

CAUTION NOTICE: This American National Standard may be revised or withdrawn at any time. The procedures of the American National Standards Institute require that action be taken to reaffirm, revise, or withdraw this standard no later than five years from the date of approval. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute.

Published by

National Electrical Manufacturers Association
1300 North 17th Street, Rosslyn, VA 22209

© Copyright 2005 by National Electrical Manufacturers Association

All rights including translation into other languages are reserved under the Universal Copyright Convention, the Berne Convention for the Protection of Literary and Artistic Works, and the International and Pan American Copyright Conventions.

No part of this publication may be reproduced in any form, in an electronic retrieval system or otherwise, without the prior written permission of the publisher.

Printed in the United States of America

DISCLAIMER The standards or guidelines presented in a NEMA standards publication are considered technically sound at the time they are approved for publication. They are not a substitute for a product seller's or user's own judgment with respect to the particular product referenced in the standard or guideline, and NEMA does not undertake to guarantee the performance of any individual manufacturer's products by virtue of this standard or guide. Thus, NEMA expressly disclaims any responsibility for damages arising from the use, application, or reliance by others on the information contained in these standards or guidelines.

CONTENTS

1	Overview	2
2	Normative references	2
3	Informative references	3
4	Mechanical requirements	3
5	Electrical and temperature requirements	4
6	Mating requirements	4
7	Environmental requirements	4
8	Safeguard and protective requirements	4
9	Materials and finishes	4

Figures

1	Receptacle	5
2	Plug	6
3	Connector socket	7
4	Connector pin	7
5	Limiting dimensions for ignitor	8
6	Receptacle connection diagram	9

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*.