



ANSI/NEMA C136.4-2003 (R2013)

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American National  
Standard for Roadway  
and Area Lighting  
Equipment-Series  
Sockets and Series-  
Socket Receptacles



**National Electrical Manufacturers Association**  
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**ANSI C136.4-2003 (R2013)**

**American National Standard**

***For Roadway and Area Lighting Equipment—  
Series Sockets and Series-Socket Receptacles***

Secretariat:

**National Electrical Manufacturers Association**

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## FOREWORD

At the time this standard was approved the ANSI C136 committee was composed of the following members:

Alabama Power	LITES
American Electric Lighting	National Grid
Caltrans	OSRAM SYLVANIA Inc.
Ceravision	Philips HADCO
City of Kansas City, Missouri	Philips Lumec
City of Los Angeles, Bureau of Street Lighting	PNNL
Duke Energy	ROAM/DTL
Duke Energy - Florida	SELC Lighting
Eaton's Cooper Lighting	Shakespeare Composite Structures
Edison Electric Institute	South Carolina Electric & Gas
EPRI	SouthConn Technologies, Inc.
EYE Lighting International of N.A., Inc.	StressCrete Ltd/King Luminaire Co., Inc.
Florida Power and Light	Sunrise Technologies, Inc./FP Outdoor Lighting Controls
FRE Composites (2005) Inc.	TE Connectivity
GE Lighting	Toshiba International Corporation
Georgia Power Company	Utility Metals Division of Fabricated Metals, LLC
Gulf Power Company	Valmont Structures
Hapco	Vamas Engineering and Consultants
Hapco Aluminum Pole Products	Vandal Shields
Holophane An Acuity Brands Company	Xcel Energy
Hubbell Lighting, Inc.	
Inovus Solar	
Intelligent Illuminations Inc.	
Kauffman Consulting, LLC	
LED Roadway Lighting	

## 1 SCOPE

This standard covers the following equipment for roadway and area luminaries:

- a) Series sockets having medium impact strength and intended for service at high temperatures.
- b) Series sockets having high impact strength and intended for service at limited temperatures.
- c) Series-socket receptacles (here in-after called the receptacles) in the 5000 V classification.

## 2 NORMATIVE REFERENCES

This standard shall be used in conjunction with the following publications. When these standards are superseded by an approved revision, the revision shall apply.

ANSI C136.2-1996, *American National Standard for Roadway and Area Lighting—Luminaires—Voltage Classification*.

## 3 INFORMATIVE REFERENCES

This standard shall be used in conjunction with the following publications. When these standards are superseded by an approved revision, the revision shall apply.

ANSI C136.1-1991 (R1996), *American National Standard for Roadway and Area Lighting—Filament Lamps—Guide for Selection*.

ANSI C136.5-1989 (R1995), *American National Standard for Roadway and Area Lighting—Film Cutouts*.

ANSI C136.6-1997, *American National Standard for Roadway and Area Lighting—Metal Heads and Reflector Assemblies—Mechanical and Optical Interchangeability*.

NOTE ANSI Standards are available from Global Engineering Documents, 15 Inverness Way East, Englewood, CO 80112-5776  
Phone: 303/397-7956, Fax 303/397-2740, e-mail: global@his.com or www.global.his.com.

## 4 VOLTAGE CLASSIFICATION

The voltage classification shall be in accordance with ANSI C136.2.

## 5 GENERAL

### 5.1 Clearances and fitting dimensions for series sockets

Clearances and fitting dimensions for series sockets shall be in accordance with **Figure 1**.

### 5.2 Clearances and fitting dimensions for receptacles

Clearances and fitting dimensions for receptacles shall be in accordance with **Figure 2**.

### 5.3 Dimensions for series-socket and receptacle bodies

Dimensions for series-socket and receptacle bodies shall be in accordance with the standard practice of the manufacturer and are shown in outline form only in Figures 1 and 2.

### 5.4 Current-carrying parts

Current-carrying parts of series sockets and receptacles shall be capable of carrying 20 A continuously.