

Audio Grade Receptacles — Audio Grade Power Connectors — Audio Grade IEC's

**WATTGATE™**



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## Introduction

WATTGATE™ products have proven to be the unparalleled industry leaders in performance and durability. The innovative designs, use of the finest materials and the state-of-the-art manufacturing processes have resulted in a system of AC power connectors in a class of their own. Our Audio Grade® connectors were a much needed industry first and continue to be the definitive choice of audio and video enthusiasts.

The performance of WATTGATE™ Audio Grade® products relies on fundamental yet superior concepts of engineering. Highly conductive elements (copper with either gold or silver) incorporated into high-pressure, large surface area contacts reduces overall resistance which fulfills the goal of improved conductivity. In addition, by implementing new stainless hardware into our designs we have now enhanced performance through greater integrity and durability of the connections. Highlighted to the right are some of the important features and technologies incorporated into the WATTGATE™ line of products.

### **Terminal funnels and holes:**

The color coded, tightly-spaced, funnel shaped holes ease installation by guiding the conductors in the Perma-Lock™ terminals. Termination time of our WATTGATE™ IEC and wall connectors is amazingly fast.

### **Perma-Lock™ terminals:**

The unique Perma-Lock™ terminals, as used on all WATTGATE™ IEC and wall connectors, work in the following way: As the terminal screw tightens down on the contact tang, it compresses the wire underneath the tang, causing the screw to exert an upwards lift of the collar overleaf. This lifting action “locks up” the threads on the screw. Stress-relieving of the terminals is virtually eliminated. Heat cycling and vibration cannot loosen the screw. To put it more simply, “as the screw goes down, the collar locks up.” Also eliminated is the need to tin the lead wires.

### **Stainless hardware:**

The implementation of new stainless hardware greatly enhances the integrity and durability of the connections.

### **Adaptable cord clamp insert:**

Designed for adaptability to a wide range of power cables. A powerful mechanical cord clamp with a removable insert accommodates cable diameters from 0.300” (7.62mm) to 0.655” (16.63mm).

### **Glass filled high temperature nylon housing:**

Increases durability, offers superior electrical insulating properties and affords a nice finish with UV and chemical resistance.

### **Polycarbonate rear housing:**

A super tough and durable material and well as a fantastic insulator. The polycarbonate housing provides a high quality, long lasting and attractive finish. The ends of the housing are also beveled to keep the connector from catching on equipment and other obstructions. A dust seal keeps foreign material from reaching the wire terminals.

### **Large, high spring-rate IEC contacts:**

Designed to securely grip our IEC connectors on the components for optimal conductivity.

### **Ultra heavy-duty triple-wipe contacts:**

The contacts elements on our 381 Audio Grade® AC wall receptacle feature a triple-wipe design with spring action contacts. With this design the plug blade is gripped at three separate points. The ultra heavy-duty material maximizes clamping spring-rate to ensure conductivity.

### **Zinc plated contacts:**

Featured on our Economy model connectors. Zinc plating offers high conductivity and corrosion resistance.

### **WATTGATE™ three-layer plating process:**

Featured on our Audio Grade® connectors and receptacle. All contact elements share the following three-layer plating process:

1. Oxygen Free Copper plating – improves conductivity.
2. Electroless Nickel plating – necessary to prevent the leeching of the copper through the gold layer.
3. 24k Gold plating or Passivated Silver plating – improves conductivity and prevents corrosion.

# 330i ★ Audio Grade® Power Connector



330i Ag

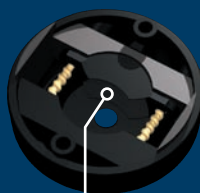


330i

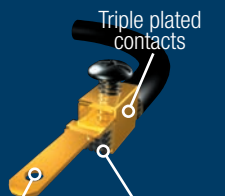


## ★ Audio Grade®

- WATTGATE™ three-layer plating process
- Perma-Lock™ terminals
- Glass filled high temperature nylon front housing
- Polycarbonate rear housing
- Stainless hardware
- 15A/125VAC



Adaptable cord  
clamp insert



Triple plated  
contacts

Wire  
(strand conductors)



Terminal funnels  
& holes

# 350i ★ Audio Grade® IEC



**350i Ag**



**350i**



## ★ Audio Grade®

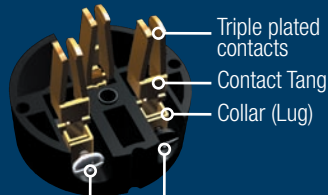
- WATTGATE™ three-layer plating process
- Large, high spring-rate contacts
- Perma-Lock™ terminals
- Glass filled high temperature nylon front housing
- Polycarbonate rear housing
- Stainless hardware
- 15A/125VAC
- 10A/250VAC



Adaptable cord  
clamp insert



Terminal funnels  
& holes



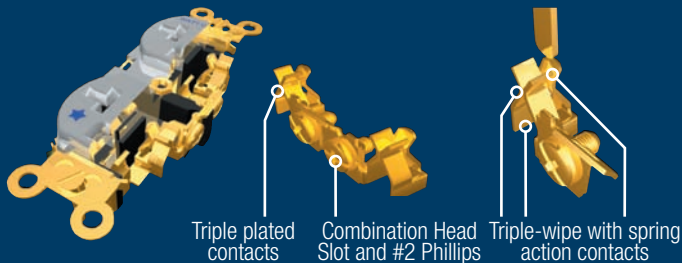
Combination Head  
slot and #2 Phillips

# 381 ★ Audio Grade® Receptacle



## ★ Audio Grade®

- WATTGATE™ three-layer plating process on contacts
- Ultra heavy-duty triple-wipe contacts
- Gold and silver plated solid brass terminal clamps, mounting strap, rivets, and grounding strip
- Glass filled high temperature nylon housing
- Superior ground contact
- 20A/125VAC





# 320i Economy IEC



**320i**

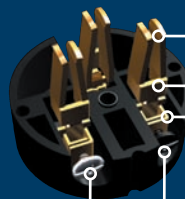
- Perma-Lock™ terminals
- Large, high spring-rate contacts
- Glass filled high temperature nylon front housing
- Polycarbonate rear housing
- Stainless hardware
- 15A/125VAC
- 10A/250VAC



Adaptable cord  
clamp insert



Terminal funnels  
& holes

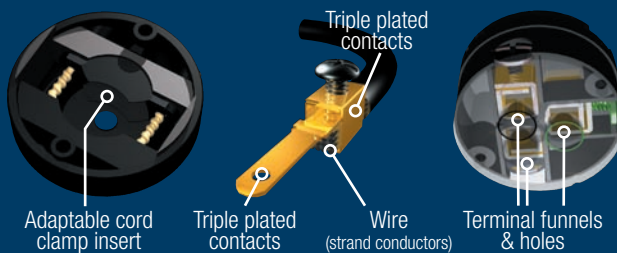


High spring-rate  
contacts  
Contact Tang  
Collar (Lug)  
Combination Head  
slot and #2 Phillips

# 5266i Economy Power Connector



- Economy Power Connector
- Perma-Lock™ terminals
- Glass filled high temperature nylon front housing
- Polycarbonate rear housing
- Stainless hardware
- 15A/125VAC





# 350i HC ★ Audio Grade® High Current IEC



350i HC Ag

350i HC

## ★ Audio Grade®

- WATTGATE™ three-layer plating process
- Large, high spring-rate contacts
- Perma-Lock™ terminals
- Glass filled high temperature nylon front housing
- Polycarbonate rear housing
- Stainless hardware
- 20A/125VAC or 250VAC
- Some classifications are 16A/250VAC



Adaptable cord  
clamp insert



Terminal funnels  
& holes



Triple Plated  
Contact Tang

- Combination Head slot and #2 Phillips
- Triple Plated Collar lug
- Stranded Wire

# 320i HC Economy High Current IEC



**320i HC**

- Economy High Current IEC
- Perma-Lock™ terminals
- Large, high spring-rate contacts
- Glass filled high temperature nylon front housing
- Polycarbonate rear housing
- Stainless hardware
- 20A/125VAC or 250VAC
- Some classifications are 16A/250VAC



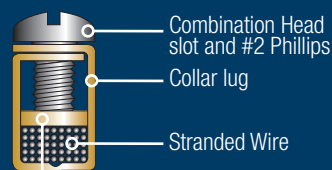
Adaptable cord  
clamp insert



Terminal funnels  
& holes



Contact Tang

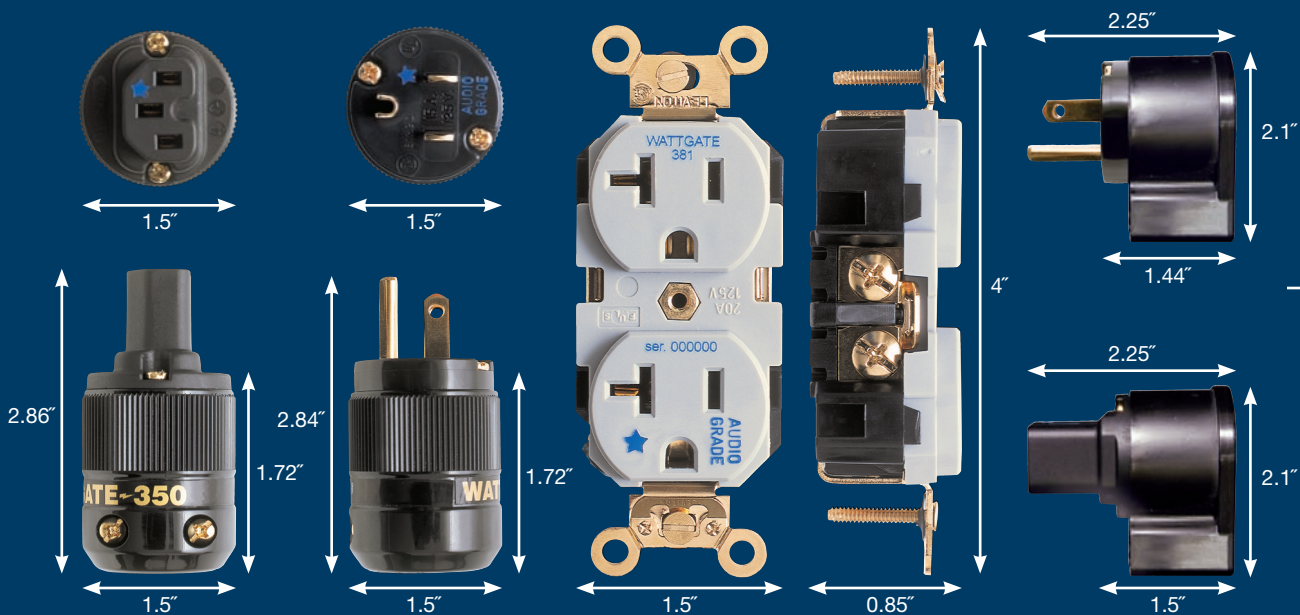


Combination Head  
slot and #2 Phillips

Collar lug

Stranded Wire

Front Housing	Glass Filled High Temperature Nylon	Glass Filled High Temperature Nylon
Back Housing	Polycarbonate	Polycarbonate
Clamp Hardware	Gold Anodized/Passivated Silver	Zinc Plated
Assembly Hardware	Gold Anodized/Passivated Silver	Zinc Plated
Contact Plating	(1) OFC Copper (2) Electroless Nickel (3) 24K Gold or Passivated Silver	None
Permalock™ Contact System	Yes	Yes
Back Shell - Marking	Yes	None
Back Shell Trim Ring - Marking	None	Yes
Front Body - Marking	Audio Grade®	None
Retail Packaging	Clam shell with full color insert	None





Information contained in this catalog is deemed accurate but may be corrected or changed without obligation

For more information or a dealer in your area, please contact Wattgate.

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