

Surge Suppression and Isolated Ground Products

HUBBELL

Featuring New Circuit Guard®
Surge Suppression Receptacle!



Wiring Device-Kellems



Surge Suppression Products

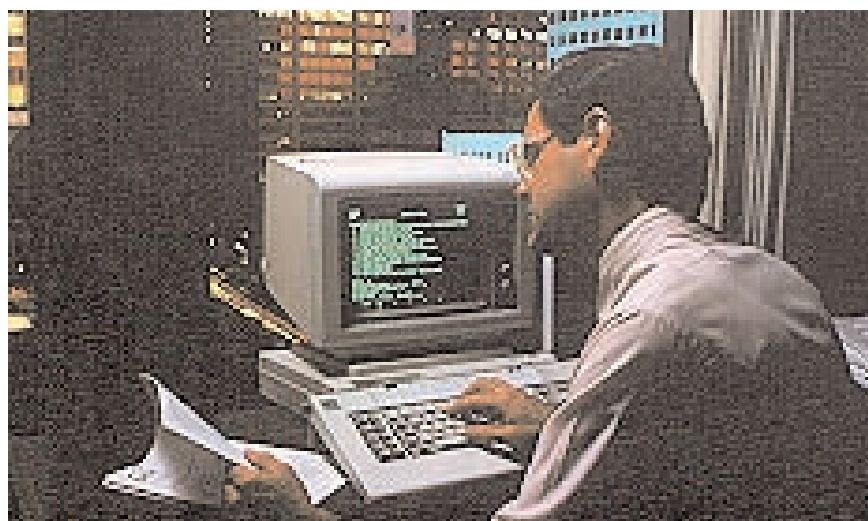
Computer and Medical Applications

Computers, FAX machines, medical equipment, scientific instrumentation, televisions, stereos, VCRs, cash registers and many other types of micro-processor based equipment have become common place in our everyday lives. We rely on this equipment to help perform our jobs, manipulate and store data, provide entertainment and in some cases save lives. The value of this equipment is immeasurable and the loss of their service or the information they contain could be catastrophic.



Transient Voltage Surges and Their Effect on Equipment

Transient voltage surges are short duration, high energy voltage disturbances on AC power lines. Although not always apparent, they are present in virtually every facility, silently stalking sensitive electronic equipment. Their effects can vary widely. Substantial transients can cause instant destruction of equipment and data characterized by charred printed circuit boards. More common effects include lost or altered data and premature equipment failure.



How and Where Transient Voltage Surges are Generated

Damaging transient voltage surges originate from sources both external and internal to your facility. External sources include lightning and the local utility switching grids to maintain proper power distribution. More common are internally generated transients which result from the switching of inductive loads, such as elevators, air conditioners, motors, printers, vacuums and even overhead lighting. Several studies have recorded as many as 60 to 100 internally generated transients in a single day.

Where to Implement Surge Suppression

The most logical points at which surge suppression devices can be installed are at the service entrance, at the branch circuit panel board, and at the point of use on the branch circuit.

Surge suppression at the service entrance guards against lightning or switching transients imposed on the utility system, but it does not protect against internally generated transients. Surge suppression at the branch circuit panel board protects against surges generated on other branch circuits but it does not

protect against surges originating on the same circuit. The best and most cost-effective means of providing surge protection is at the point of use on the branch circuit.

Hubbell Wiring Device – Kellems offers a complete line of point of use surge suppression products. Whether it be permanently wired duplex receptacles or portable strips and plug-in units, Hubbell surge suppression products set the standard for quality, convenience and reliability.



Surge Suppression Products

Features and Benefits

Best in Class

NEW

UL Listed to Standards 1449 and 498; CSA Certified (NEMA 5-15 configuration only).

Damage-alert alarm sounds when surge protection is no longer functioning...and keeps sounding until the receptacle is replaced or muting screw is utilized.

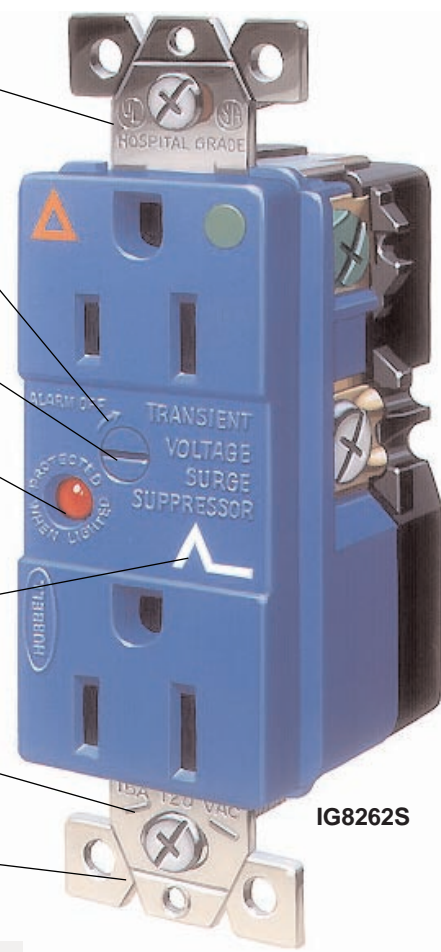
Muting screw allows damage-alert alarm to be silenced until device is replaced.

Power-on indicator light verifies instantly that power is available at the receptacle and the suppression circuit is fully functional; light off means power has been interrupted; flashing light indicates surge protection circuitry has been damaged.

Distinctive surge symbol provides quick visual identification of surge suppression receptacle. High impact nylon face resists breakage.

Automatic grounding clip attached to bridge meets NEC Article 250-74, Exception No. 2.

Fits standard wall box.



IG8262S



Power Contacts

Tandem Modified By-Pass contact design produces superior contact pressure and lower operating temperature for longer life.



Printed Circuit Board

Four 18mm matched MOVs (two discs per package) provide 210 joules of surge protection in each mode. The nylon component shield protects the PC board from moisture and contaminants. An all glass PC board provides superior moisture immunity for longer life in humid environments. Conformal coating is provided on PC board for additional moisture immunity.



Terminal Screws

External backwire provides visual inspection of terminations. "U" shape clamps are for strand containment and wire bundling. Combination screws for screwdriver versatility, decreased slip-page and increased speed of installation.

Note: The effectiveness of TVSS devices diminishes with the distance between the device and the equipment to be protected.



Surge Suppression Receptacle Comparison Checklist

The following table is intended to facilitate the accurate comparison of surge suppression receptacles. The table focuses on the critical elements of electronic and electromechanical design and performance of surge suppression receptacles.

Unless otherwise noted the information relative to Hubbell products applies to the entire surge suppression receptacle offering. This table is designed to allow the accurate comparison of Hubbell product with others under consideration.

Feature	Hubbell	Brand X	Criteria
Protection Modes: -Normal L-N -Common L-G -Common N-G	✓ ✓ ✓		For complete protection a surge suppression receptacle must provide suppression in the Normal Mode (L-N) and Common Modes (L-G, N-G). Some products provide only Normal Mode protection.
Peak Energy (Joule rating) (1) -Normal L-N -Common L-G -Common N-G	210 joules min. 210 joules min. 210 joules min.		The short duration, peak energy a surge suppression component can handle without self destructing, also considered a measure of product longevity. All Modes should be considered individually to determine a product's true peak energy for "a chain is only as strong as its weakest link ." In general the higher the peak energy the better the device.
Peak Current -Normal L-N -Common L-G -Common N-G	13,000 Amp. 13,000 Amp. 13,000 Amp.		A rating of how strong the surge suppression device is when subjected to very high peak currents. As with peak energy all Modes should be considered individually to determine a product's true peak current for "a chain is only as strong as its weakest link."
UL Listed Suppressed Voltage	500 V max.		Determined through UL 1449 testing, it is the maximum voltage the suppressor will allow to pass through to the protected circuit. In general the lower the rating the better the device.
Surge Suppression Status Indicators -Visual Indicator (LED) -Audible Alarm -Audible Alarm Silencing Feature	✓ ✓ (2) ✓		Status indication is critical. Visual indicators are ideal for applications in view of user, audible for locations under furniture. A means to silence the audible indicator is essential to prevent occupant annoyance.
Printed Circuit Board Material - Best: All glass filled - Better: Paper filled - Good: Phenolic - Conformal Coating	✓ ✓		All glass filled printed circuit boards provide superior moisture immunity for longer board life in humid environments, particularly hospitals. In addition they provide greater heat stability. Conformal coating provides moisture protection to components on the circuit board.
Power Contact Design - Best: Tandem Modified By-Pass - Better: Triple Wipe "T" - Good: Double Wipe	✓		The Hubbell only Tandem Modified By-Pass power contacts provide superior contact forces resulting in lower operating temperatures and longer product life.
Contact Material (Power & Ground) - Best: 688 Super Brass - Good: 260 Brass	✓		688 Super brass maintains higher retention forces than 260 brass resulting in lower operating temperatures, superior grounding and longer product life.
Termination - Best: External Backwire - Better: Internal Backwire - Good: Sidewire	✓		External backwiring provides visual inspection of terminations and ease of installation.
Terminal and Mounting Screws - Best: Combination Phillips/Slotted - Good: Slotted	✓		Combination screws for screw driver versatility, decreased slippage, and increased speed of installation.

(1) Some manufacturers publish a cumulative total joule rating by summing the Normal and Common Modes.

(2) Audible Alarm not available on 5260 and 5360 models.



Straight Blade, 2 Pole, 3 Wire Grounding

15 and 20 Ampere, 125 Volts 60 Hz

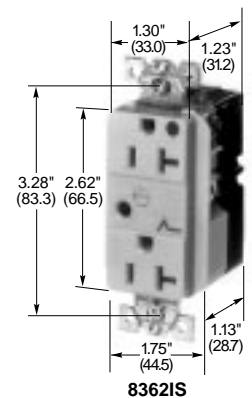
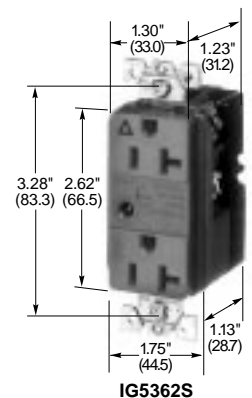
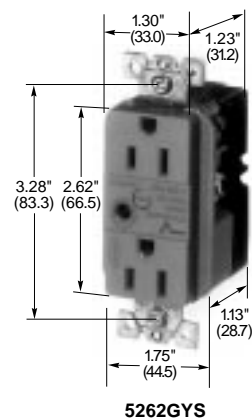
Specification Grade and Hospital Grade
Surge Suppression Duplex and 4-PLEX® Receptacles

NEW



Circuit Guard®, Specification Grade Duplex Receptacles

Description	Color	Catalog Number	
Surge suppression receptacles with indicator light only. 210 joules/13000A per mode.	Blue	5260S	5360S
	Ivory	5260IS	5360IS
Surge suppression receptacles with indicator light and alarm. 210 joules/13000A per mode.	Blue	5262S	5362S
	Ivory	5262IS	5362IS
	Gray	5262GYS	5362GYS
	White	5262WS	5362WS
Isolated ground, surge suppression receptacles with indicator light and alarm. 210 joules/13000A per mode.	Blue	IG5262S	IG5362S
	Ivory	IG5262IS	IG5362IS
	Gray	IG5262GYS	IG5362GYS
	White	IG5262WS	IG5362WS
	Orange	IG5262OS	IG5362OS
4-PLEX surge suppression receptacles with lights. 80 joules/6500A per mode.	Blue	415S	420S
	Ivory	415IS	420IS



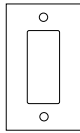
Circuit Guard, Hospital Grade Duplex Receptacles

Description	Color	Catalog Number	
Surge suppression receptacles with indicator light and alarm. 210 joules/13000A per mode.	Blue	8262S	8362S
	Ivory	8262IS	8362IS
	Gray	8262GYS	8362GYS
	White	8262WS	8362WS
	Red	8262RS	8362RS
Isolated ground, surge suppression receptacles with indicator light and alarm. 210 joules/13000A per mode.	Blue	IG8262S	IG8362S
	Ivory	IG8262IS	IG8362IS
	Gray	IG8262GYS	IG8362GYS
	White	IG8262WS	IG8362WS
	Orange	IG8262OS	IG8362OS
	Red	IG8262RS	IG8362RS
4-PLEX surge suppression hospital grade receptacles. 80 joules/6500A per mode.	Blue	—	420HS
	Ivory	—	420HIS

4-PLEX Accessories

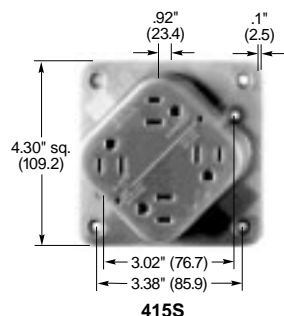
Description	Color	Catalog Number
4-PLEX adapter plates for 1 and 2 gang and 4" (101.6) square device boxes.	Blue	4APBL
	Ivory	4API
4-PLEX portable box. Portable 4" (101.6) square box with cord grip. Accepts up to .66" (16.8) diameter cord.	Blue	4PBBL
	Ivory	4PBI

Wall Plates

Configuration	High-Impact Nylon			Plated Steel		Stainless Steel/Brass	
	Color	Standard	Mid-Size				
 1 gang	Blue	—	SPJ26C*	Chrome Brass	CH26 BP26	Smooth SS	S26
	Blue	—	SPJ26			Smooth SS	SJ26 ^Δ
	Ivory	—	PJ26C*			Smooth Brass	B26
	Ivory	HPS1I	PJ26				
	Gray	HPS1GY	PJ26G				
	White	HPS1WA	PJ26WA				
	Orange	HPS1OR	—				
	Red	HPS1R	PJ26R				

Notes: *Premarked "COMPUTER ONLY!" Lettering is block 1/4" high.

^ΔJumbo size plate.





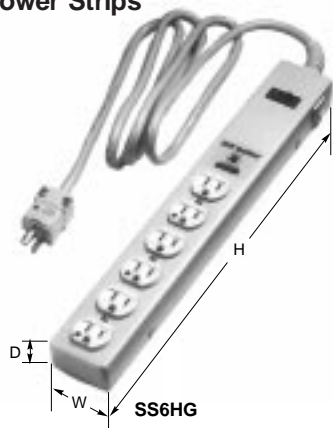
Straight Blade, 2 Pole 3 Wire Grounding

15 Ampere 125 Volts 60 Hz

Surge Suppression Devices

Power Strips and Plug-In Adapters

Power Strips

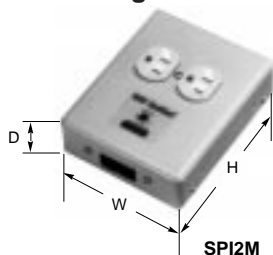


Circuit Guard® Power Strips and Plug-In Adapters

Cat. No.	Dimensions		
	H	W	D
SS6HG	15.75" (400.0)	2.25" (57.2)	1.16" (29.5)
SS6	15.75" (400.0)	2.25" (57.2)	1.16" (29.5)
SS4	14.0" (355.6)	2.31" (58.7)	1.16" (29.5)
PS6	11.94" (303.3)	2.31" (58.7)	1.13" (28.7)

Cat. No.	Application/Description	Input	Duplex Receptacles	Circuit Breaker	On/Off Switch	Surge LED	Status Alarm
SS6HG	Power strip w/ filtering, surge protection, hospital grade receptacles & plug.	Power cord 6' (182.9cm)	3	Yes	Yes	Yes	Yes
SS6	Power strip w/ filtering, surge protection.	Power cord 6' (182.9cm)	3	Yes	Yes	Yes	Yes
SS4	Power strip w/ filtering, surge protection.	Power cord 6' (182.9cm)	2	Yes	Yes	Yes	Yes
SPI2M	Plug-In adapter w/ filtering, power and fax/modem surge protection, (2) RJ11 jacks, 4' phone cord.	Plug-In	1	Yes	No	Yes	Yes
SPI2	Plug-In adapter w/ filtering, surge protection.	Plug-In	1	Yes	No	Yes	Yes
PS6	Power strip only (no filtering, no surge protection).	Power cord 6' (182.9cm)	3	Yes	Yes	Not Applicable	

Portable Plug-In



Cat. No.	Dimensions		
	H	W	D
SPI2M	5.50" (139.7)	4.50" (114.3)	1.41" (35.8)
SPI2	5.50" (139.7)	4.50" (114.3)	1.41" (35.8)

Electrical Specifications:

Input Voltage	125V AC (60Hz)	
Current	20A Max Branch Circuit	
Protection Modes	Normal and Common	
Transient Suppression	140 joules per mode, 13000A	
Peak Energy (10 x 1000 µs)	140 joules per mode, 13000A	
Peak Current (8 x 20 µs)	13000A	
Suppressed Voltage	Observed	UL Listed Class
UL Portable/Plug-In Test (8 x 20 µs, 500A)	305V	330V
Suppressed Voltage - Telecom Circuit	200V max	
EMI/RFI Rejection (@50 Ohms)	Normal	Common
	Up to 80dB	Up to 60dB
	150kHz to 100 MHz	
Response Time ¹	Approx. 5 ns	
Temperature Range		
Operating	0° to 40° C (32° to 104° F)	
Storage	-35° to 60° C (-31° to 140° F)	

¹ The response time of the MOV's will depend on the inductive effect of the circuit leads.

Rating - 15A , 125V AC

Certification

UL listed to standard 1449 (Transient Voltage Surge Suppressors), 1363 (Temporary Power Taps) and 498 (Receptacles).

CSA Certified to Spec C22.2 No. 42M

Suitable for ANSI/IEEE C62.41 (IEEE 587) installation categories "A" (outlets and long branch circuits) and "B" (major feeders and short branch circuits).



Surge Suppression Receptacle - Technical Information



5262S

Straight Blade Specification Grade Duplex Receptacles

Specifications

Receptacle	Part	Description
Typical Specification – Catalog No. 5262S	Receptacle	15A
Manufacturer's Identification – Hubbell 5262S	Top	Nylon
Description – Surge Suppression Duplex Receptacle	Base	Nylon
Type – 2 Pole, 3 Wire, Grounding	Tandem Modified By-Pass	.031" (.8) Brass
	Power Contacts	
Rating – 15A, 125V	Mounting Strap	.050" (1.3) Steel Zinc Coated
Certification – UL Listed File E2186	Clamping Plate	.031" (.8) Brass
Listed to UL Standards 498 Receptacles	Terminal Screws	Brass #8-32
1449 Transient Voltage Surge Suppressors	Hex Hd. Grounding Screw	Steel (Green)
CSA Certified to Specification C22.2	Auto Grd. Clip	Stainless Steel
No. 42M (15A only)		
ANSI/IEEE C62.41 (IEEE 587)	Mounting Screws	Steel Zinc Plated
Installation Categories "A" (Ring Wave)	LED	Red
"B" (Unidirectional Impulse)	Alarm Muting Screw	Nylon

Performance

Electrical

Frequency	60Hz	
Voltage	120V AC +10%-15%	
Response Time*	Approximately 5 ns.	
Protection Modes	Normal and Common Modes	
Transient Suppression	<u>Peak Energy (10 x 1000 μs)</u>	<u>Peak Current (8 x 20 μs)</u>
Normal Mode (L-N)	210 joules	13000A
Common Modes (L-G)	210 joules	13000A
(N-G)	210 joules	13000A
Suppressed Voltage	UL Portable/Plug-In Test (8 x 20 μ s 500A)	340V
	UL Permanently Wired Test (8 x 20 μ s 3000A)	490V
	UL Listed	500V max.
EMI/RFI Attenuation at 50 Ohms Normal Mode	40dB	500kHz - 100MHz
Operating Temperature	0° to 40°C (32° to 104° F)	
Storage Temperature	-35° to 60° C (-31° to 140° F)	

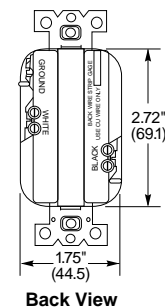
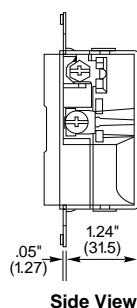
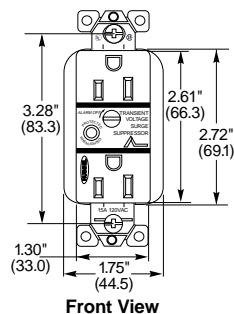
Mechanical

Terminal Identification	Terminals identified in accordance with UL 498 (Brass, White, Green)
Terminal Accommodation	#14-12 AWG copper conductor only
Product Identification	Ratings are permanent part of device
Weight	3.7 oz.

Environmental

Flammability	94-V2
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*The response time of the MOV's will depend on the inductive effect of the circuit leads.





Hubbell Isolated Ground Receptacles

Why do you need an isolated ground device?

When mounting a conventional receptacle in a steel box, the ground is commonly established through the existing electrical system. This is done by using either the grounding clip on the receptacle's mounting strap, or by running a ground wire (which is part of the "normal" existing system) to the green grounding screw.

In a conventional receptacle the grounding contacts are connected to the mounting strap and the green grounding screw. Thus, even when a separate green wire is brought to the receptacle, it is still tied into the normal ground. This occurs since the mounting strap is in contact with the box grounding system, therefore, a "pure" path to the ground is not established.

The Problem

The conventional grounding receptacle provides safety for personnel and equipment. However, the ground network also serves as a giant antenna and conductor of electrical noise. This electrical noise is electromagnetic interference and is caused by numerous transient ground currents. This can produce random transient electrical signals on the grounding system.

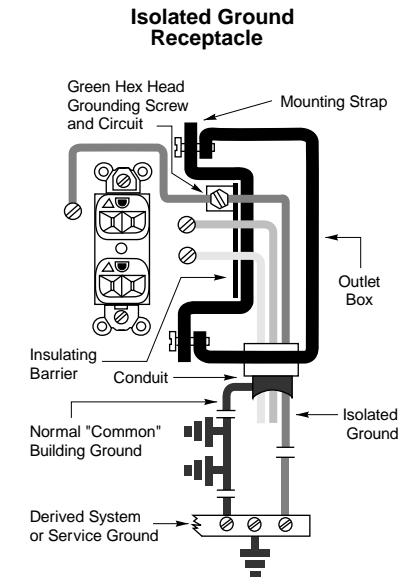
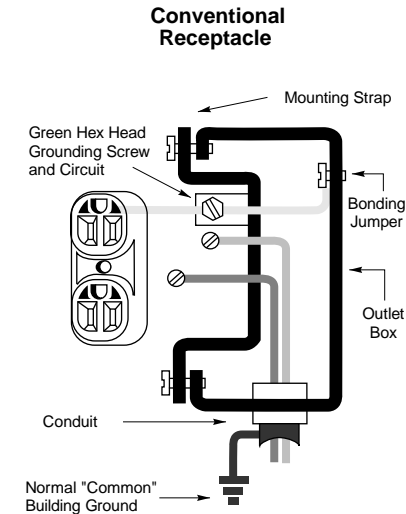
As a result, sensitive electronic equipment such as point of purchase terminals, accounting machines, computers and highly sensitive medical and communications equipment, can pick up these transient signals. This can interfere with the proper operation of the equipment.

The Solution

The isolated ground receptacle was developed by Hubbell over 27 years ago. This receptacle is similar to a conventional receptacle except for one important change. A patented insulating barrier construction isolates the ground contacts from the mounting strap. The green grounding screw is connected directly to the grounding contacts. The isolated equipment grounding circuit is completed by running an isolated ground wire to the green grounding screw. This ground wire passes through intermediate panel boards without being connected to their grounding terminal and terminates directly at an equipment grounding conductor terminal of the derived system or service, in accordance with NEC® Paragraph 250-74 exception #4.

The Result

This "isolated ground" can be kept relatively free of electrical noise. This is achieved since the grounding network has less branches, fewer sources of noise, and is connected to the ground at a single point.





Straight Blade Isolated Ground

Receptacle Features and Benefits

Wrap-around, locked on brass mounting strap provides additional support strength for receptacle assembly.

Green grounding screw connected directly to the grounding contacts.

Insulation barrier construction – first patented by Hubbell – isolates ground contacts from the mounting strap.

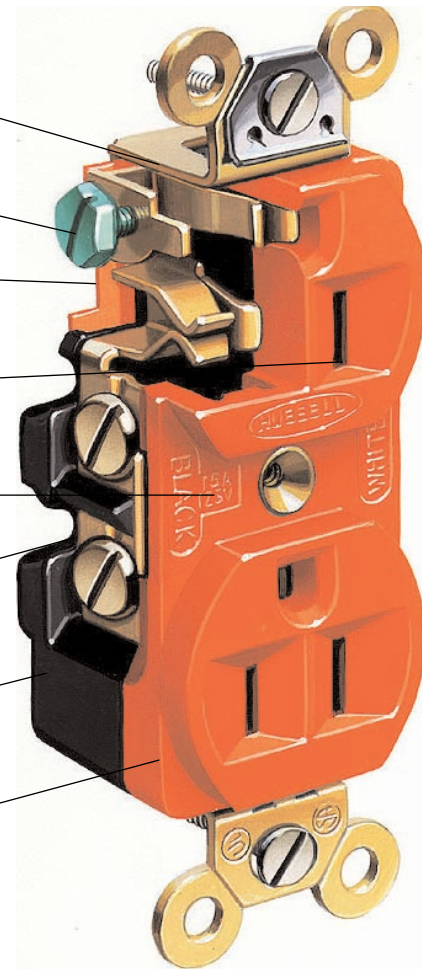
Straight blade 15A and 20A, 125V duplex receptacles are available in a choice of colors: orange, gray and ivory.

Amperage and voltage clearly indicated.

Back- and side-wiring capability provides easy installation with stranded or solid wire.

Dimensionally stable, reinforced thermoplastic polyester provides impact strength in addition to heat and flame resistance.

Impact-resistant nylon face.



Isolated Ground Receptacles

A "Clean" Path Provides A "Clean" Ground For Sensitive Equipment

In February, 1968, Hubbell patented the first isolated ground receptacle. Today – when a clean, noise-free ground is more important than ever – Hubbell is still setting the standard.

Hubbell uses insulation barrier construction on many models to isolate the ground contacts from the mounting strap. The green grounding screw is connected directly to the grounding contacts. In this way, ground contacts are separated from the mounting strap and also from the conventional grounding system. The isolated ground circuit is completed by running a dedicated insulated ground wire from the system ground buss to the green grounding screw.

And there's more to the Hubbell line:

- Available in 23 NEMA configurations and a total of 73 different type receptacles.

- Versatility and mobility: With Hubbell's grounding method. Hubbell's IG devices can be mounted in boxes, on metal panels...almost anywhere.
- Hubbell quality: Every Hubbell IG device meets and exceeds all applicable codes and standards, plus the toughest standard of all...the Hubbell standard of excellence.

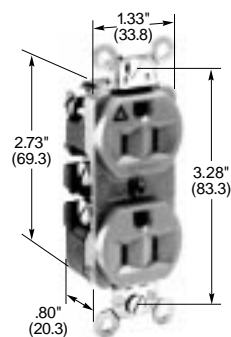
IG triangle clearly indicates isolated ground device on the face of the receptacle.



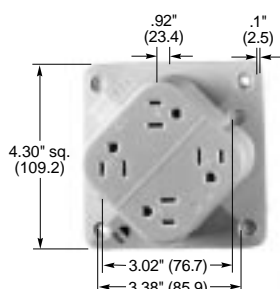


Isolated Ground Devices

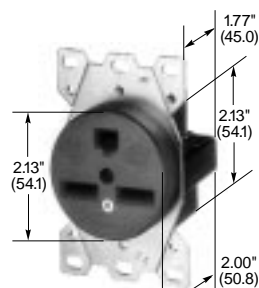
Straight Blade Receptacles



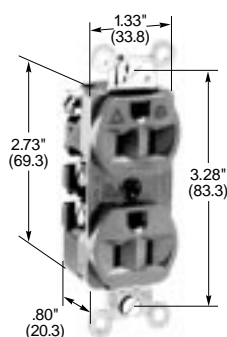
IG5262



IG415



IG9330



IG8200



Isolated Ground Straight Blade Duplex and Single Receptacles

Rating	NEMA Number	NEMA Configuration	Description	Catalog Number
15A 125V	5-15R		Duplex	IG5262
			Duplex	IG5262CN*
			Duplex Ivory	IG5262I
			Duplex Gray	IG5262GY
			Style Line® Duplex	IG2152
4-PLEX®			Duplex	IG415
			Single	IG5261
			Single	IG5261CN*
20A 125V	5-20R		Duplex	IG5362
			Duplex Ivory	IG5362I
			Duplex Gray	IG5362GY
			Duplex-CSA	IG5392CN*
			Style Line Duplex	IG2162
4-PLEX®			Single	IG420
			Single	IG5361
			Single	IG5662
15A 250V	6-15R		Duplex	IG5661
			Single	IG5661
			Single	IG5651
20A 250V	6-20R		Duplex	IG5462
			Single	IG5461
30A 125V	5-30R		Single	IG9308
30A 250V	6-30R		Single	IG9330
50A 125V	5-50R		Single	IG9360
50A 250V	6-50R		Single	IG9367

4-PLEX® Accessories

Description	Color	Catalog Number
4-PLEX adapter plate for 1 and 2 gang, and 4" (101.6) square device boxes	Orange	4APO

Hospital Grade Isolated Ground Straight Blade Receptacles

Rating	NEMA Number	NEMA Configuration	Description	Catalog Number
15A 125V	5-15R		Duplex	IG8200
			Style Line Duplex	IG2172
			Style Line Duplex-Ivory	IG2172I
20A 125V	5-20R		Single	IG8210
			Duplex	IG8300
			Style Line Duplex	IG2182
			Style Line Duplex-Ivory	IG2182I
Style Line Duplex-White	IG2182W			
Single	IG8310			

Note: All receptacles are orange unless noted.

*Catalog numbers with "CN" suffix have Robertson/slotted screws. Catalog Number IG5392CN is 5-20R Canadian 20A, 125V. UL, CSA



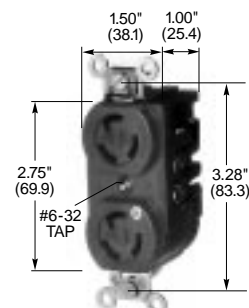
TWIST-LOCK® Receptacles



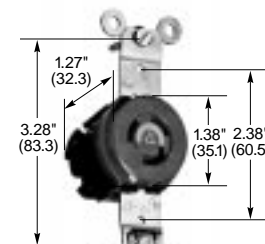
Isolated Ground Twist-Lock Receptacles

Rating	NEMA Number	Configuration	Description	Catalog Number
15A 125V	L5-15R		2 pole, 3 wire duplex 2 pole, 3 wire single 2 pole, 3 wire single	IG4700 IG4700CN IG4710 IG4710CN
15A 250V	L6-15R		2 pole, 3 wire duplex 2 pole, 3 wire single	IG4550 IG4560
20A 125V	L5-20R		2 pole, 3 wire single 2 pole, 3 wire single	IG2310A IG2310ACN
20A 250V	L6-20R		2 pole, 3 wire single 2 pole, 3 wire single	IG2320A IG2320ACN
30A 125V	L5-30R		2 pole, 3 wire single 2 pole, 3 wire single	IG2610A IG2610ACN
30A 250V	L6-30R		2 pole, 3 wire single 2 pole, 3 wire single	IG2620A IG2620ACN
20A 125/250V	L14-20R		3 pole, 4 wire single 3 pole, 4 wire single	IG2410A IG2410ACN
20A 3Ø 250V	L15-20R		3 pole, 4 wire single	IG2420A
30A 125/250V	L14-30R		3 pole, 4 wire single	IG2710A
30A 3Ø 250V	L15-30R		3 pole, 4 wire single	IG2720A
20A 3ØY 120/208V AC	L21-20R		4 pole, 5 wire single	IG2510A
30A 3ØY 120/208V AC	L21-30R		4 pole, 5 wire single	IG2810A

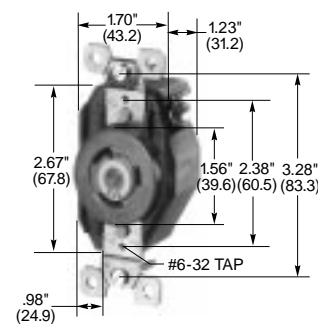
Note: All receptacles are orange unless otherwise noted.
Catalog numbers listed above with suffix "CN" have Robertson/slotted head screws.



IG4700



IG4710



IG2310A



Isolated Ground Receptacle - Technical Information

Isolated Ground Straight Blade Duplex Receptacle

Specifications

Receptacle	Part	Description
Typical Specification – Catalog No. IG5262	Receptacle	15A
Manufacturer's Identification – Hubbell IG5262	Top	Nylon
Description – Isolated Ground Straight Blade Duplex Receptacle	Base	R.T.P.*
Type – 2 Pole, 3 Wire, Grounding	Triple Wipe Power Contacts	.032" (.8) Brass
Rating – 15A, 125V	Wire Clamp	.062" (1.3) Steel
Certification – UL Listed, CSA Certified	Mounting Strap	.050" (1.3) Brass
	Insulator	Nylon
	Terminal Screws	Brass #8-32
	Hex Hd. Grounding Screw	Brass (Green)
	Center Assembly-Rivet	Brass
	Auto Grd. Clip	Stainless Steel
	Flat. Hd. Mtg. Screws	Steel Zinc Plated



IG5262

Performance

Electrical	
Dielectric Voltage	Withstands 2,000V minimum
Max. Working Voltage	250V
Current Interrupting	Certified for current interrupting at full rated current
Temperature Rise	Max 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current with direct current

Mechanical

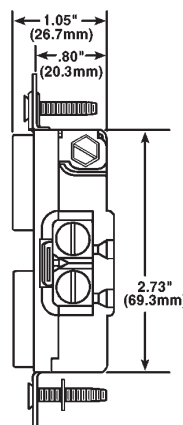
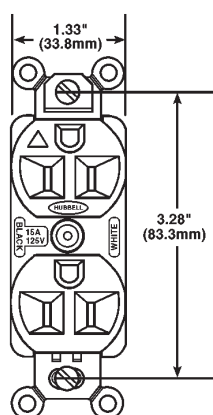
Terminal Identification	Terminals identified in accordance with UL 498 (Brass, White, Green)
Terminal Accommodation	#14-12 AWG copper conductor only
Product Identification	Ratings are permanent part of device

Environmental

Flammability	Top: UL 94 V2, Base: UL 94 VØ and UL 94 5 VA
Operating Temperatures	Maximum continuous 60°C, minimum -40°C (w/o Impact) (140°F, -40°F)

*Reinforced Thermoplastic Polyester

Please consult the factory for product dimensions and specifications for other products listed in this brochure



Wiring Device - Kellems

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