

# Isolated Ground Devices

L

<b>Hospital Grade Receptacles</b>	<b>L-1</b>
<b>Hospital Grade and Commercial Specification Grade TVSS Receptacles</b>	<b>L-2</b>
<b>Hospital Grade TVSS Receptacles</b>	<b>L-3</b>
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Isolating the grounding circuit from harmonic distortion is an efficient and economical way to protect sensitive electronics from operational degradation, disruption, or damage. Cooper Wiring Devices has responded to the growing reliance on clean power systems with a sophisticated selection of isolated ground devices. Our line includes products that cover a wide range of applications – hospital grade, industrial and commercial specification grade straight blade and locking receptacles, transient voltage surge suppressors, and compatible plugs and pre-marked wallplates. All are built for heavy duty, designed for easy installation, and manufactured to provide users with years of dependable electrical and electronic performance.



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## L-Intro-1

ISOLATED  
GROUND  
DEVICES

## Isolated Ground Devices

As the use of electronics has grown, Cooper Wiring Devices isolated ground wiring devices have grown with it . . . from specification and hospital-grade straight blade receptacles and extra secure Hart-Lock® receptacles . . . to transient voltage surge suppressors . . . to compatible plugs and wallplates.

Cooper isolated ground products provide users with the security of dependable electrical and electronic performance, without the expense of often unnecessary power conditioners.

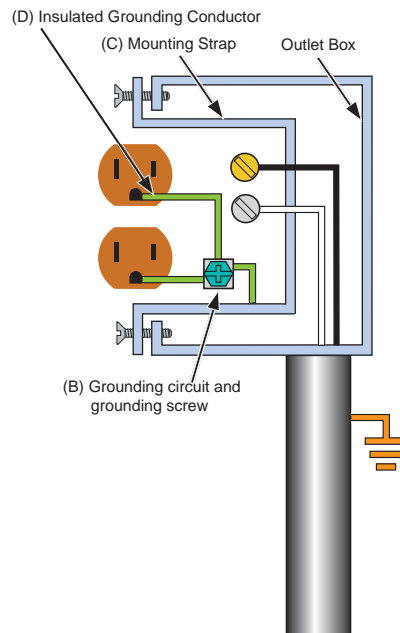
### Install Isolated Grounding Circuits!

Selecting the right grounding system and wiring devices – ones that completely isolate the grounding circuit from the transient signals that can be created by other “noise” producing sources – will provide protection for your equipment and information needs.

# Isolated Ground Receptacle

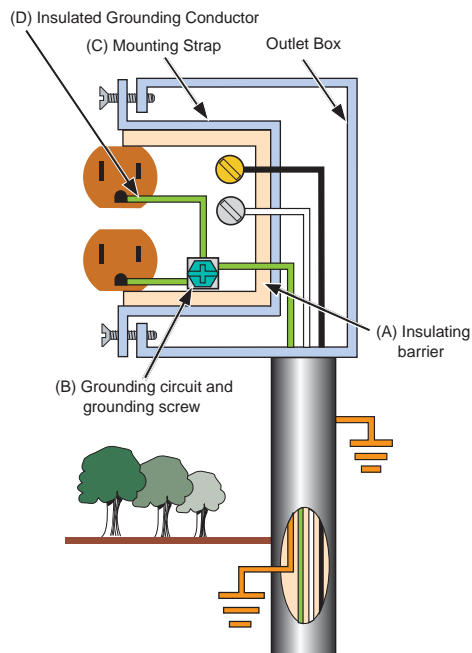
## Conventional Receptacle

A conventional receptacle is grounded to the building grounding system at the receptacle. When mounted in the box, grounding contacts are connected to the box, fittings, conduit and all other building ground system components which can act as a large antenna for EMI and RFI.



## How Isolated Ground is Different

Grounding contacts are bonded directly to the service entrance grounding system. In the illustration the insulating barrier (A) isolates the grounding contacts (B) from the mounting strap (C). The insulated grounding conductor (D) is bonded to the service entrance grounding system



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**L-Intro-2**  
ISOLATED  
GROUND  
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**L-1**  
ISOLATED  
GROUND  
DEVICES

#### TESTING & CODE COMPLIANCE

- UL Listed to 498, (file no. E3663)
- CSA Certified to C22.2 no.42 (file no. LR7087)

#### MATERIAL CHARACTERISTICS

Environmental:  
Flammability per  
UL 94 requirements,  
V2 rated.  
Temperature Rating:  
-40°C to 60°C  
except as noted.



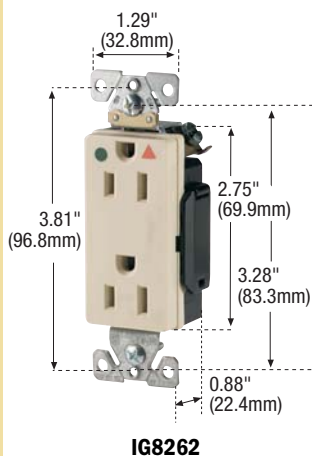
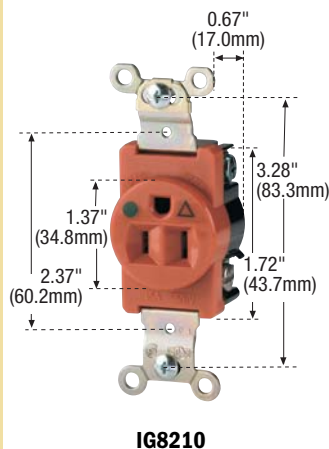
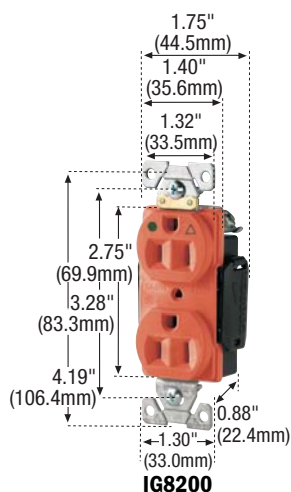
## Hospital Grade Receptacles

**2 Pole, 3 Wire Grounding**  
**15A 125V, 20A 125V**  
**15A 250V, 20A 250V**

### Hospital Grade Receptacles – Isolated Ground

#### FEATURES

- Exclusive 5-leaf brass line contacts ensure lowest heat rise, smooth plug blade insertion and long-term retention.
- Rigid, glass reinforced nylon base lends ultimate strength and superior high heat resistance in contact carrier.
- Unique screw terminal guards provide fast, easy insulation from conductive surfaces.
- Exclusive 0.030" (0.76mm) solid brass, non-riveted, integral one-piece isolated grounding shunt system assures ground integrity under heaviest use – isolated from common building ground.
- High impact and chemical-resistant nylon face.
- Tapered lead-in slots on back wiring holes assist in gathering stranded wires for faster, more secure connections.
- All terminal (H-N-G) and mounting screws nickel-plated, triple combination (slot/Phillips/Robertson) head for superior corrosion resistance and maximum installer flexibility.
- Long, broad mounting strap helps reach large panel cutouts for Code compliance.
- Automatic grounding system eliminates need for bonding jumper in grounded metal enclosure, provides redundant measure of ground continuity where jumper used.
- Screw-Catch™ feature on duplex devices speeds mounting of wallplates.



#### Hospital Grade – Isolated Ground

##### Side and Back Wire

Rating A	V/AC	NEMA	Colors	Catalog No.	
				Duplex	Single*
15	125	5-15R	Gray	IG8200GY	
			Orange	IG8200RN	IG8210RN
			Red	IG8200RD	
			Ivory	IG8200V	IG8210V
			White	IG8200W	
20	125	5-20R	Gray	IG8300GY	
			Orange	IG8300RN	IG8310RN
			Red	IG8300RD	
			Ivory	IG8300V	
			White	IG8300W	
15	250	6-15R	Orange	IG8600RN	IG8610RN
20	250	6-20R	Orange	IG8400RN	IG8410RN

\*Single receptacles meets all UL, CSA & Federal Specifications, but differ in design and construction from duplex receptacles.

#### Hospital Decorator Duplex Receptacles – Isolated Ground

Rating A	V/AC	NEMA	Colors	Catalog No.
15	125	5-15R	Ivory Orange	IG8262V IG8262RN
20	250	5-20R	Ivory Orange	IG8362V IG8362RN



5-15R



5-20R



6-15R



6-20R

# Hospital Grade and Commercial Specification Grade TVSS Receptacles

2 Pole, 3 Wire Grounding  
15A 125V  
20A 125V



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**L-2**  
ISOLATED  
GROUND  
DEVICES

## TESTING & CODE COMPLIANCE

- Meets all appropriate UL1449 and UL498 requirements. Fed. Spec. WC-596, file #E15058
- Meets all CSA requirements, C22.2 no. 42, file #6914 (6233-01)
- For replaceable module: UL file #E102018

**MATERIAL CHARACTERISTICS**  
Meets flammability requirements per UL94, V2 rated.

## Surge Bloc® TVSS Devices – Isolated Ground

### FEATURES

- Provides surge protection for hot to neutral, hot to ground and neutral to ground.
- Exclusive patented replaceable module restores expired surge protection without interruption of power or need to remove and rewire device.
- Audible alarm signals when surge protection has expired; removal of module disables alarm without interrupting power to receptacle.
- Grounding system fully isolated from common building ground.
- Noise protection against EMI and RFI standard.
- High impact-resistant thermoplastic mounting strap.
- Automatic ground will insure wallplate grounding in properly grounded metal enclosure.
- Standard 6" (152.4mm) leads, stripped 0.50" (12.70mm).

### Hospital Grade Duplex Receptacle – Isolated Ground

#### Wire Leads

Rating A	V/AC	NEMA	Clamping Voltage	Joules/ MCOV	Maximum Surge Current	Color	Catalog No.
15	125	5-15R	400V	170J/ 150V/AC RMS	12kA per mode	Blue Ivory Red	IG1308BL IG1308V IG1308RD
20	125	5-20R	400V	170J/ 150V/AC RMS	12kA per mode	Blue Ivory Red	IG1310BL IG1310V IG1310RD

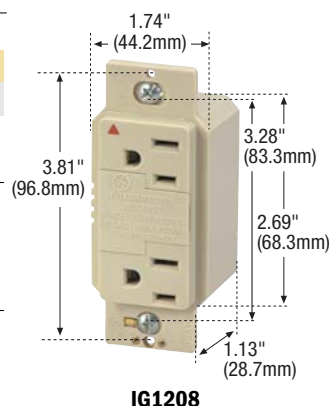
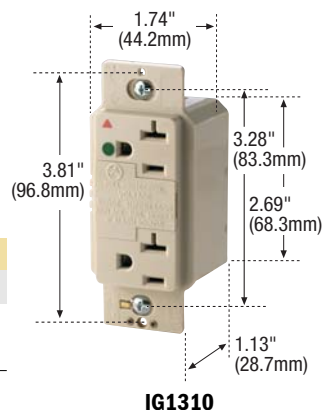
### Commercial Specification Grade Duplex Receptacle – Isolated Ground

#### Wire Leads

Rating A	V/AC	NEMA	Clamping Voltage	Joules/ MCOV	Maximum Surge Current	Color	Catalog No.
15	125	5-15R	400V	170J/ 150V/AC RMS	12kA per mode	Blue Gray Ivory White	IG1208BL IG1208GY IG1208V IG1208W
20	125	5-20R	400V	170J/ 150V/AC RMS	12kA per mode	Blue Ivory White	IG1210BL IG1210V IG1210W

### Replacement Module

Clamping Voltage	Joules/ MCOV	Color	Catalog No.
400	170J 150V/AC RMS	Ivory	1209V
		White	1209W
		Blue	1209BL
		Red	1209RD
		Gray	1209GY



**1209**



**5-15R**



**5-20R**



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**L-3**  
ISOLATED  
GROUND  
DEVICES

#### TESTING & CODE COMPLIANCE

Meets all appropriate UL 1449 (file no. 2369) and UL 498 requirements.  
· CSA Listed (file no. LR7087)

#### MATERIAL CHARACTERISTICS

Environmental:  
Flammability per UL 94 requirements, V2 rated.



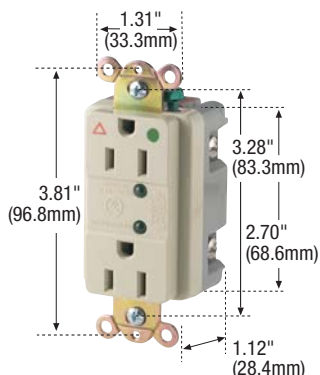
## Hospital Grade TVSS Receptacles

**2 Pole, 3 Wire Grounding**  
**15A 125V**  
**20A 125V**

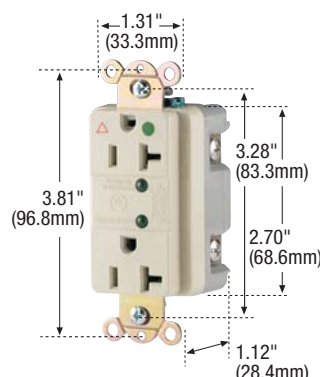
### Receptacles with LED Indicators and Switched Alarm

#### FEATURES

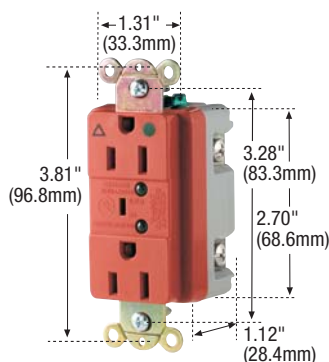
- High impact thermoplastic construction.
- 8-hole back and side wired.
- Shallow depth for easy installation.
- Models with LED indicators only to verify surge protection and ground.
- Audible alarm indicates bad ground connection or surge protection has expired (on models with alarm only).



**IG5250HG**



**IG5350HG**



**IG8200HG**

#### Hospital Grade Receptacles with LED Indicators - Isolated Ground Back and Side Wire

Rating A	V/AC	NEMA	Clamping Voltage	Joules/ MCOV	Maximum Surge Current	Color	Catalog No.
15	125	5-15R	400V	280J/ 150V/AC RMS	18kA per mode	Blue Brown Gray Ivory Orange Red White	IG5250HGBLS IG5250HGBS IG5250HGGYS IG5250HGVS IG5250HGRNS IG5250HGRDS IG5250HGWS
20	125	5-20R	400V	280J/ 150V/AC RMS	18kA per mode	Blue Brown Gray Ivory Orange Red White	IG5350HGBLS IG5350HGBS IG5350HGGYS IG5350HGVS IG5350HGRNS IG5350HGRDS IG5350HGWS

#### Hospital Grade Receptacles with LED Indicators & Alarm - Isolated Ground Back and Side Wire

Rating A	V/AC	NEMA	Clamping Voltage	Joules/ MCOV	Maximum Surge Current	Color	Catalog No.
15	125	5-15R	400V	280J/ 150V/AC RMS	18kA per mode	Blue Brown Gray Ivory Orange Red White	IG8200HGBLS IG8200HGBS IG8200HGGYS IG8200HGVS IG8200HGRNS IG8200HGRDS IG8200HGWS
20	125	5-20R	400V	280J/ 150V/AC RMS	18kA per mode	Blue Brown Gray Ivory Orange Red White	IG8300HGBLS IG8300HGBS IG8300HGGYS IG8300HGVS IG8300HGRNS IG8300HGRDS IG8300HGWS



**5-15R**



**5-20R**



# Industrial Specification Grade Straight Blade Receptacles

2 Pole, 3 Wire Grounding  
15A 125V, 20A 125V  
15A 250V, 20A 250V



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**L-4**  
ISOLATED  
GROUND  
DEVICES

## Duplex and Single Receptacles – Isolated Ground

### FEATURES

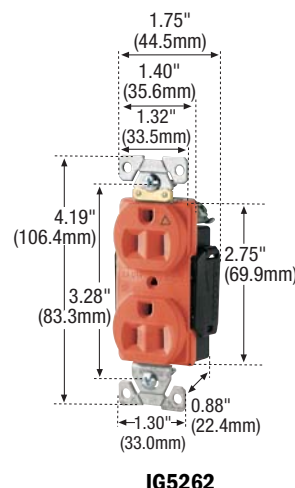
- Exclusive 5-leaf brass line contacts ensure lowest heat rise, smooth plug blade insertion and long-term retention.
- Rigid, glass reinforced nylon base lends ultimate strength and superior high heat resistance in contact carrier.
- Unique screw terminal guards provide fast, easy insulation from conductive surfaces.
- Exclusive 0.030" (0.76mm) solid brass, non-riveted, integral one-piece isolated grounding shunt system assures ground integrity under heaviest use – isolated from common building ground.
- High impact and chemical-resistant nylon face.
- Tapered lead-in slots on back wiring holes assist in gathering stranded wires for faster, more secure connections.
- All terminal (H-N-G) and mounting screws triple combination (slot/Phillips/Robertson) head for maximum installer flexibility.
- Long, broad mounting strap helps reach large panel cutouts for Code compliance.
- Automatic grounding system eliminates need for bonding jumper in grounded metal enclosure, provides redundant measure of ground continuity where jumper used.
- Screw-Catch™ feature on duplex devices speeds mounting of wallplates.

### Duplex and Single Receptacles – Isolated Ground

#### Side and Back Wire

Rating A	V/AC	NEMA	Colors	Catalog No.	
				Duplex	Single*
15	125	5-15R	Gray	IG5262GY	
			Orange	IG5262RN	IG5261RN
			Red	IG5262RD	
			Ivory	IG5262V	IG5261V
			White	IG5262W	
20	125	5-20R	Gray	IG5362GY	
			Orange	IG5362RN	IG5361RN
			Red	IG5362RD	
			Ivory	IG5362V	IG5361V
			White	IG5362W	
15	250	6-15R	Orange	IG5662RN	IG5661RN
20	250	6-20R	Orange	IG5462RN	IG5461RN

\*Single receptacles meets all UL, CSA & Federal Specifications, but differ in design and construction from duplex receptacles.



IG5262



5-15R



5-20R



6-15R



6-20R

### TESTING & CODE COMPLIANCE

Meets all appropriate UL 498 requirements.  
• CSA Listed (file no. 6914 (6233-01)).  
Fed Spec WC-596.

### MATERIAL CHARACTERISTICS

Environmental:  
Flammability per UL 94 requirements, V2 rated.  
Temperature Rating:  
-40°C to 70°C.



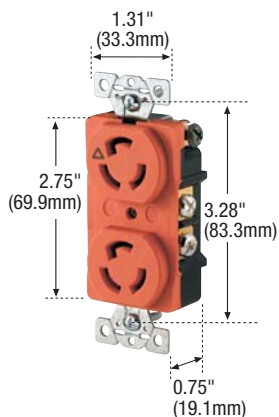
## Hart-Lock® Locking Devices

2 Pole, 3 Wire Grounding  
15A 125V, 250V, 277V

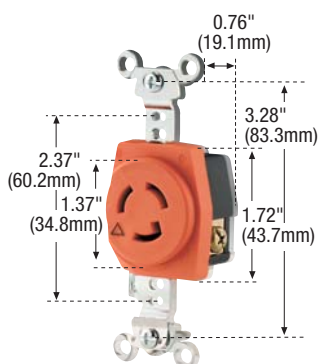
### Hart-Lock® Locking Devices Isolated Ground

#### FEATURES

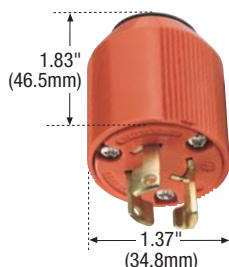
- High-strength, glass reinforced nylon body (suitable for 115°C/239°F continuous use) for durability and long life.
- One piece, double wipe contacts for better conductivity and long term reliability.
- Back and side wire terminations for fast, reliable wiring.
- Grounding contact is isolated from system grounding.
- Double riveted mounting strap assembly provides rugged performance.



IG4700



IGL515R



IG4721N

INDUSTRIAL  
COMMERCIAL

**L-5**  
ISOLATED  
GROUND  
DEVICES

#### TESTING & CODE COMPLIANCE

• UL Listed to 498, (file no. E2369). IG4721N, IG6565N are listed to file no. E3663.  
• CSA Certified to C22.2 no.42 (file no. LR7087), except as noted.

#### MATERIAL CHARACTERISTICS

Receptacles: Glass filled Nylon. Plugs: Nylon. Environmental: Flammability per UL 94 requirements, Receptacles VO rated Temperature Rating: Plugs: -40°C to 70°C Receptacles: -40°C to 115°C.

#### Duplex Receptacles

Rating	A	V/AC	NEMA	Description	Color	Catalog No.
15	125	L5-15R	Standard	Standard	Orange	IG4700
15	250	L6-15R	Standard	Standard	Orange	IG6580*
15	277	L7-15R	Standard	Standard	Orange	IG4750*
15	125	L5-15R/5-15R	One locking outlet and one straight blade outlet		Orange	IG5792*

#### Single Receptacles

Rating	A	V/AC	NEMA	Description	Color	Catalog No.
15	125	L5-15R	Standard	Standard	Orange	IGL515R
15	125	L5-15R	Short strap, 1.313" (33.35mm) C. to C.		Orange	IG4712*
15	250	L6-15R	Standard	Standard	Orange	IGL615R*
15	277	L7-15R	Standard	Standard	Orange	IGL715R*

#### Plugs

#### FEATURES

- Nylon back wired Dead-Front construction.
- Neoprene gasket seals cord hole and keeps dust/moisture out of terminal area.
- Automatic cord grip reduces wiring time.

#### Plugs

Rating	A	V/AC	NEMA	Description	Color	Catalog No.
15	125	L5-15P	Autogrip		Orange	IG4721N
15	250	L6-15P	Autogrip		Orange	IG6565N

\*Not CSA Certified.



L5-15R



L5-15P



L6-15R



L6-15P



L7-15R



5-15R



# Hart-Lock® Locking Devices

2 Pole, 3 Wire;  
3-Pole, 4-Wire



## Hart-Lock® Locking Receptacles

### FEATURES

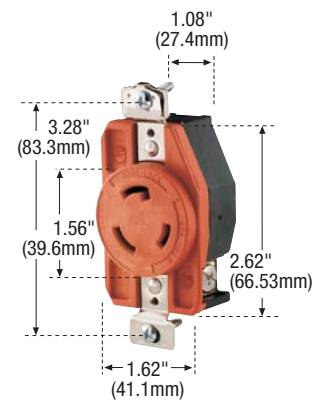
- High-strength, glass reinforced nylon body (suitable for 105°C/221°F continuous use) for durability and long life.
- One piece, double wipe contacts for better conductivity and long term reliability.
- Back and side wire terminations for fast, reliable wiring.
- Grounding contact is isolated from system grounding.
- Double riveted mounting strap assembly provides rugged performance.

### 2 Pole, 3 Wire Receptacles

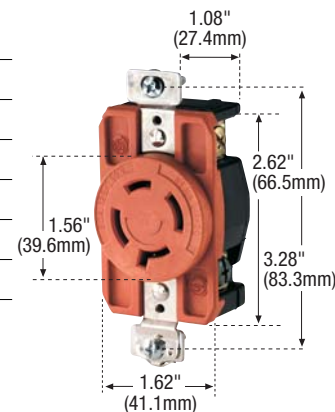
Rating A	V/AC	NEMA	Color	Catalog No.
20	125	L5-20R	Orange	IGL520R
	250	L6-20R	Orange	IGL620R
	277	L7-20R	Orange	IGL720R
	480	L8-20R	Orange	IGL820R
30	125	L5-30R	Orange	IGL530R
	250	L6-30R	Orange	IGL630R
	277	L7-30R	Orange	IGL730R
	480	L8-30R	Orange	IGL830R

### 3 Pole, 4 Wire Receptacles

Rating A	V/AC	NEMA	Color	Catalog No.
20	125/250	L14-20R	Orange	IGL1420R
	250 3ø	L15-20R	Orange	IGL1520R
	480 3ø	L16-20R	Orange	IGL1620R
30	125/250	L14-30R	Orange	IGL1430R
	250 3ø	L15-30R	Orange	IGL1530R
	480 3ø	L16-30R	Orange	IGL1630R



IGL520R



IGL1420R



L5-20R



L6-20R



L7-20R



L8-20R



L5-30R



L6-30R



L7-30R



L8-30R



L14-20R



L15-20R



L16-20R



L14-30R



L15-30R



L16-30R

INDUSTRIAL  
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**L-6**  
ISOLATED  
GROUND  
DEVICES

### TESTING & CODE COMPLIANCE

- UL Listed to 498, (file no. E2369).
- CSA Certified to C22.2 no.42 (file no. LR7087)

### MATERIAL CHARACTERISTICS

Glass filled Nylon.  
Environmental:  
Flammability per  
UL 94 requirements,  
V0 rated.  
Temperature Rating:  
-40°C to 105°C.

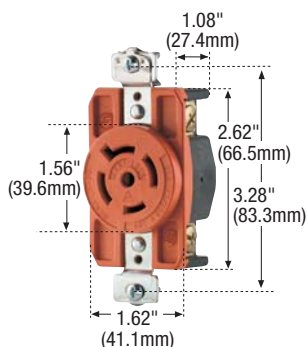


# Hart-Lock® Locking Devices

**4 Pole, 5 Wire Receptacles**  
**2 Pole, 3 Wire Plugs**  
**20A 125V, 250V, 277V**

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**L-7**  
**ISOLATED**  
**GROUND**  
**DEVICES**



**IGL2120R**

## Hart-Lock® Locking Receptacles

### FEATURES

- High-strength, glass reinforced nylon body (suitable for 105°C/221°F continuous use) for durability and long life.
- One piece, double wipe contacts for better conductivity and long term reliability.
- Back and side wire terminations for fast, reliable wiring.
- Grounding contact is isolated from system grounding.
- Double riveted mounting strap assembly provides rugged performance.

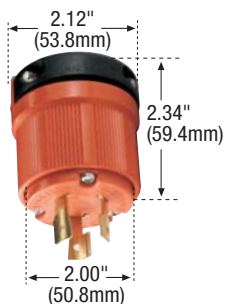
### 4 Pole, 5 Wire Receptacles

Rating A	V/AC	NEMA	Color	Catalog No.
20	120/208 3ØY	L21-20R	Orange	IGL2120R
	277/480 3ØY	L22-20R	Orange	IGL2220R
	347/600 3ØY	L23-20R	Orange	IGL2320R
30	120/208 3ØY	L21-30R	Orange	IGL2130R
	277/480 3ØY	L22-30R	Orange	IGL2230R
	347/600 3ØY	L23-30R	Orange	IGL2330R

## Hart-Lock® Locking Plugs

### FEATURES

- Nylon back wired "Dead-Front" construction.
- Neoprene gasket seals cord hole and keeps dust/moisture out of terminal area.
- Dual range cord grip clamps on plugs and connectors.



**IGL520P**

### 2 Pole, 3 Wire Plugs

#### Isolated Ground

Rating A	V	NEMA	Color	Catalog No.
20	125	L5-20P	Orange	IGL520P
20	250	L6-20P	Orange	IGL620P
20	277	L7-20P	Orange	IGL720P

### TESTING & CODE COMPLIANCE

- UL Listed to 498, Receptacles (file no. E2369), plugs (file no. E3663).
- CSA Certified to C22.2 no.42 (file no. LR7087).

### MATERIAL

#### CHARACTERISTICS

Receptacles: Glass filled Nylon. Plugs: Nylon. Environmental: Flammability per UL 94 requirements, receptacles VO rated. Temperature Rating: Receptacles: -40°C to 105°C; Plugs: -40°C to 70°C



**L21-20R**



**L22-20R**



**L23-20R**



**L21-30R**



**L22-30R**



**L23-30R**



**L5-20P**



**L6-20P**



**L7-20P**

# Commercial Specification Grade TVSS Receptacles

2 Pole, 3 Wire Grounding  
15A 125V  
20A 125V



## Receptacles with LED Indicators and Switched Alarm

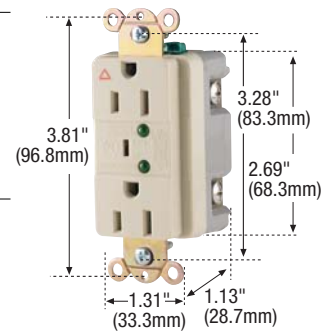
### FEATURES

- High impact thermoplastic construction.
- 8-hole back and side wired.
- Shallow depth for easy installation.
- Audible alarm indicates bad ground connection or surge protection has expired (on models with alarm only).
- LED indicators to verify surge protection and ground.

### Commercial Specification Grade Receptacles with LED Indicators & Switched Alarm

#### Isolated Ground – Back and Side Wire

Rating A	V/AC	NEMA	Clamping Voltage	Joules/ MCOV	Maximum Surge Current	Color	Catalog No.
15	125	5-15R	400V	280J/ 150V/AC RMS	18kA per mode	Blue	IG5262BLS
						Brown	IG5262BS
						Gray	IG5262GYS
						Ivory	IG5262VS
						Orange	IG5262RNS
						White	IG5262WS
20	125	5-20R	400V	280J/ 150V/AC RMS	18kA per mode	Blue	IG5362BLS
						Brown	IG5362BS
						Gray	IG5362GYS
						Ivory	IG5362VS
						Orange	IG5362RNS
						White	IG5362WS



IG5262S

INDUSTRIAL  
COMMERCIAL

**L-8**  
ISOLATED  
GROUND  
DEVICES

### TESTING & CODE COMPLIANCE

- Meets all appropriate UL1449 (file 2369) and UL498 requirements
- CSA Listed (file no. LR7087)

### MATERIAL CHARACTERISTICS

Environmental:  
Flammability per UL 94 requirements, V2 rated.



5-15R



5-20R



INDUSTRIAL  
COMMERCIAL

**L-9**  
ISOLATED  
GROUND  
DEVICES

# Pre-Marked Special Use Wallplates

Standard  
and Mid-Size




## Pre-Marked Special Use Wallplates

### FEATURES

- Stainless steel plates are ink-filled engraving; indelible pad-printing on thermoplastic plates guaranteed not to fade, bleed or rub off.
- 0.188" (4.76mm) lettering for easy identification.




### Commercial Specification Grade High-Impact Thermoplastic Wallplates

#### "Isolated Ground" Pre-Marked Imprint

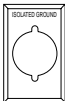
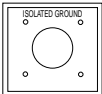
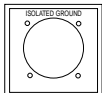
Description	Color	Catalog No.	
		Standard	Mid-Size
 1 Gang Single Receptacle with 1.406" (35.72mm) Hole	Ivory	IG5131V	
	Orange	IG5131RN	PJ7IG
 1 Gang Duplex Receptacle	Gray	IG5132GY	
	Ivory	IG5132V	
	Orange	IG5132RN	PJ8IG
 1 Gang Decorator	White	IG5132W	
	Orange		PJ26IG

### Stainless Steel Wallplates

#### "Isolated Ground" Pre-Marked Imprint

Description	Catalog No. Standard
 1 Gang Single Receptacle	IG97091
 1 Gang Duplex Receptacle	IG93101
 1 Gang Decorator	IG97061

### Power Receptacle

Description	Catalog No. Standard
 1 Gang, 2 Mounting Holes Fits 30-50-60A 2.12" (53.84mm) Dia. Device	IG7421C
 2 Gang, 4 Mounting Holes Fits 30-50-60A 2.12" (53.84mm) Dia. Device	IG9301C
 2 Gang, 4 Mounting Holes Fits 30-50-60A 2.44" (61.98mm) Dia. Device	IG4518C