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# Surge and Isolated Ground Devices



## Surge Suppression Receptacles



- Damage-alert alarm sounds when surge protection is no longer functioning, muting screw allows damage-alert alarm to be silenced until device is replaced
- Power-on indicator light verifies that suppression circuit is fully functional, light off means power has been interrupted, flashing light indicates surge protection circuitry has been damaged
- Automatic grounding clip
- High-impact nylon face resists breakage
- Distinctive surge symbol provides quick visual identification of surge suppression receptacle

## Hospital Grade and Specification Grade, Standard and Isolated Ground Surge Suppression Receptacles and QUADPLEX® Receptacles



SP821A



SP831GA



SP52WA



SP531GGYA



1254HSA



21254SA

Surge Suppression Receptacles with Light and Alarm, 240 Joules/15,000 Amps per Mode					
Nylon Face					
		Hospital Grade		Specification Grade	
Rating	Color	Standard	with Isolated Ground	Standard	with Isolated Ground
NEMA 5-15, 15A 125V 	Blue	<b>SP82A</b>	<b>SP821GA</b>	<b>SP52A</b>	<b>SP521GA</b>
	Gray	<b>SP82GYA</b>	<b>SP821GGYA</b>	<b>SP52GYA</b>	<b>SP521GGYA</b>
	Ivory	<b>SP82IA</b>	<b>SP821GIA</b>	<b>SP52IA</b>	<b>SP521GIA</b>
	Orange	—	<b>SP821GOA</b>	—	<b>SP521GOA</b>
	Red	—	<b>SP821GRA</b>	—	—
	White	<b>SP82WA</b>	<b>SP821GWA</b>	<b>SP52WA</b>	<b>SP521GWA</b>
NEMA 5-20, 20A 125V 	Blue	<b>SP83A</b>	<b>SP831GA</b>	<b>SP53A</b>	<b>SP531GA</b>
	Gray	<b>SP83GYA</b>	<b>SP831GGYA</b>	<b>SP53GYA</b>	<b>SP531GGYA</b>
	Ivory	<b>SP83IA</b>	<b>SP831GIA</b>	<b>SP53IA</b>	<b>SP531GIA</b>
	Orange	—	<b>SP831GOA</b>	—	<b>SP531GOA</b>
	Red	—	<b>SP831GRA</b>	—	—
	White	<b>SP83WA</b>	<b>SP831GWA</b>	<b>SP53WA</b>	<b>SP531GWA</b>

QUADPLEX® Surge Suppression Receptacles with Light 80 Joules/6,500 Amps per Mode			
Lexan®			
		Hospital Grade	Specification Grade
Color	Surge Suppression	Surge Suppression	with Isolated Ground and Wire Leads
Blue	<b>1254HSA</b>	<b>1254SA</b>	—
Ivory	<b>1254HSIA</b>	<b>1254SIA</b>	—
Blue	<b>21254HSA</b>	<b>21254SA</b>	<b>21254SLA</b>
Ivory	<b>21254HSIA</b>	<b>21254SIA</b>	<b>21254SILA</b>

Note: See page A-5 for additional information on QUADPLEX® receptacles.

## Adapter Plates and Portable Boxes Inches (mm)

	Adapter Plates	Portable Boxes
Color	For 1- and 2-Gang Device Boxes	4" (101.6) Square with Two Cord Grips
Blue	<b>ADAPBLU</b>	<b>4SQBXBLU*</b>
Ivory	<b>ADAPI</b>	<b>4SQBXI*</b>

Note: \*Portable boxes not UL Listed or CSA Certified. For indoor use only.



ADAPI



ADAPBLU



4SQBXI

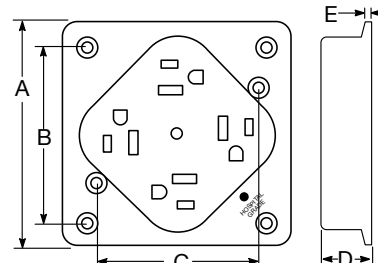
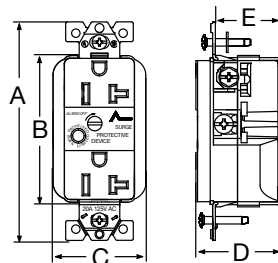


4SQBXBLU

## Product Dimensions Inches (mm)

Receptacle	QUADPLEX®
A	4.04" (102.6)
B	2.80" (71.1)
C	1.72" (43.7)
D	1.60" (40.6)
E	1.24" (31.5)

Note: See page A-5 for dimensions on adapter plates and portable boxes.



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# Surge and Isolated Ground Devices

## Portable Surge Protection Devices (SPD)



- Metallic and non-metallic units
- Six, seven and eight outlet units
- No surge, 350 joule, 1050 joule and 2100 joule protection units
- Transformer spaced outlets available on some units
- 15A resettable ON/OFF circuit breaker switch and power and ground indicating LEDs
- Available with fax/modem, cable TV and satellite protection on some units

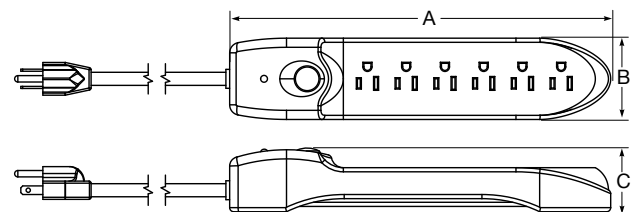
### Surge Protection Plug Strips



	SPD		SPD with Fax/Modem	SPD with Fax/Modem/ CATV/Satellite	Power Strip (No surge protection)
Number of Outlets	Six		Seven	Eight	Six
Joule Rating	350 (Non-Metallic) 1050 (Metallic)		1050	2100	N/A
Peak AMP Rating	6.5 kA (Non-Metallic) 19.5 kA (Metallic)		19.5 kA	39 kA	N/A
Down Line Warranty	\$2,500		\$10,000	\$25,000	N/A
Length	6 Foot	15 Foot	6 Foot	6 Foot	6 Foot
Non-Metallic Office White	<b>BRY6PS350</b>	<b>BRY6PS35015</b>	<b>BRY7PS1050M</b>	<b>BRY8PS2100D</b>	<b>BRY6PPS</b>
Metallic Office White	<b>BRY6MPS1050</b>	—	—	—	<b>BRY6MPS</b>

### Product Dimensions Inches (mm)

	Non-Metallic Strips			Metallic Strips
	SPD and Power Strip	SPD with Fax Modem	SPD with Fax/Modem CATV/Satellite	SPD and Power Strip
A	11.2" (284.5)	14.75" (374.7)	10.4" (264.2)	12.25" (311.2)
B	2.36" (59.9)	2.36" (59.9)	3.8" (96.5)	2.5" (63.5)
C	1.85" (47.0)	1.85" (47.0)	1.44" (36.6)	1.5" (38.1)



### Cord Sets



T1254SI6A

6 Foot Cord Sets, 12/3 SJO		Surge Suppression
Rating	Color	
NEMA 5-15, 15A 125V	Ivory	<b>T1254SI6A</b>



### Electrical Specifications

Catalog Number T1254SI6A – Surge Suppression

- Transient suppression capacity peak energy 80 joules for a 10 X 1000  $\mu$ S\* pulse
- Common and normal mode protection, common mode transients: hot to ground and neutral to ground, normal mode transients: hot to neutral
- Maximum clamping voltage test current 100 amperes peak (8X20 $\mu$ S\*), 360 volts
- Varistor peak clamping voltage 212 volts minimum, 243 volts maximum @ 1 milliampere DC
- Varistor continuous RMS voltage rating: 150 volts
- Capacitance @ 1 kHz, 2000 pf  $\pm$  30%
- Response time: approximately 5ns (nanoseconds)
- Suppressed voltage 530V (3000 amp) nominal 436V (750 amp) 412V (500 amp) 400V (125 amp) 212V (1 mA)
- Current 20 ampere max branch circuit
- Receptacle rating 15 and 20 ampere 125V
- Input voltage 125V AC, 60 Hz

Note: \* $\mu$ S (microseconds).

# Surge and Isolated Ground Devices

## Isolated Ground Straight Blade Receptacles



- Limits electrical noise on the equipment grounding circuit by providing two grounding paths for the installation
- Nylon deep face design
- Triple-wipe brass line contacts
- Ground contacts and ground termination
- Nickel and brass plated wrap-around steel yoke

### Pre-Marked Wallplates

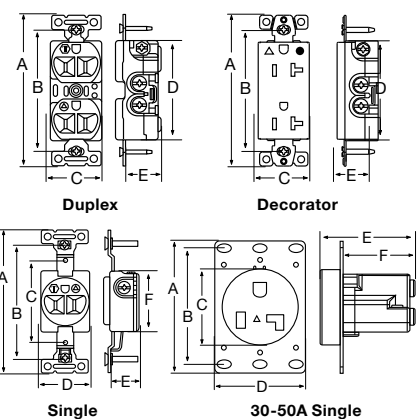


Opening	Color	"Isolated Ground"	"Computer Only"
Duplex	Orange	<b>NP80IG</b>	<b>NPJ8CO</b>
Duplex	Ivory	—	<b>NPJ8C</b>
Single receptacle	Orange	<b>NP70IG</b>	—
Decorator type	Orange	<b>NP260IG</b>	—
Decorator type	Ivory	—	<b>NPJ26C</b>

## Extra Heavy Duty Industrial, Hospital Grade and Specification Grade Receptacles



		Extra Heavy Duty					Specification Grade		
Face		Nylon Face					Nylon	Lexan®	
Wiring		Back and Side					Back and Side	Terminal Screws	Wire Leads
Style		Duplex		Decorator	Single		Duplex		
Rating	Color	Hospital Grade	Industrial Grade	Hospital Grade	Hospital Grade	Industrial Grade	Commercial Grade	QUADPLEX®	
NEMA 5-15, 15A 125V 	Gray	—	<b>BRY5262IGGRY</b>	<b>9200IGGRY</b>	—	<b>5261IGGRY</b>	<b>CR15IGRY</b>	—	—
	Ivory	—	<b>BRY5262IGI</b>	<b>9200IGI</b>	—	<b>5261IGI</b>	<b>CR15IGI</b>	—	—
	Lt. Almond	—	—	—	—	—	<b>CR15IGLA</b>	—	—
	Orange	<b>BRY8200IG</b>	<b>BRY5262IG</b>	<b>9200IG</b>	<b>8210IG</b>	<b>5261IG</b>	<b>CR15IG</b>	<b>1254IGO</b>	—
	Red	—	—	<b>9200IGRED</b>	—	—	—	—	—
White	—	<b>BRY5262IGW</b>	<b>9200IGW</b>	—	<b>5261IGW</b>	<b>CR15IGW</b>	—	—	
NEMA 5-20, 20A 125V 	Gray	—	<b>BRY5362IGGRY</b>	<b>9300IGGRY</b>	—	<b>5361IGGRY</b>	<b>CR20IGRY</b>	—	—
	Ivory	—	<b>BRY5362IGI</b>	<b>9300IGI</b>	—	<b>5361IGI</b>	<b>CR20IGI</b>	—	—
	Lt. Almond	—	—	—	—	—	<b>CR20IGLA</b>	—	—
	Orange	<b>BRY8300IG</b>	<b>BRY5362IG</b>	<b>9300IG</b>	<b>8310IG</b>	<b>5361IG</b>	<b>CR20IG</b>	<b>21254IGO</b>	<b>21254IGOL</b>
	Red	—	—	<b>9300IGRED</b>	—	—	—	—	—
White	—	<b>BRY5362IGW</b>	<b>9300IGW</b>	—	<b>5361IGW</b>	<b>CR20IGW</b>	—	—	
NEMA 6-15, 15A 250V 	Orange	—	<b>BRY5662IG</b>	—	—	—	—	—	—
NEMA 6-20, 20A 250V 	Orange	—	<b>BRY5462IG</b>	—	—	<b>8410IG</b>	—	—	—



## 30 and 50 Amp Straight Blade Receptacles

Rating	Color	RTP Nylon Face, 2-Pole 3-Wire	
NEMA 5-30, 30A 125V 	Orange	<b>9530IG</b>	NEMA 6-30, 30A 250V 
NEMA 5-50, 50A 125V 	Orange	<b>9550IG</b>	NEMA 6-50, 50A 250V 



### Product Dimensions Inches (mm)

	Duplex	Decorator	Single 15/20A	30-50A
A	4.06" (103.1)	3.81" (96.8)	4.06" (103.1)	3.68" (93.5)
B	3.28" (83.3)	3.28" (83.3)	3.28" (83.3)	2.37" (60.3)
C	1.38" (35.1)	1.38" (35.1)	2.38" (60.5)	2.12" (54.0)
D	2.68" (68.1)	2.69" (68.3)	1.38" (35.1)	2.25" (57.2)
E	0.92" (23.4)	0.93" (23.6)	1.78" (45.2)	2.35" (59.9)
F	—	—	0.91" (23.1)	1.79" (45.6)

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# Surge and Isolated Ground Devices



## Isolated Ground Locking Receptacles



- Limits electrical noise on the equipment grounding circuit by providing two grounding paths for the installation
- Nylon deep face design
- Triple-wipe brass line contacts
- Ground contacts and ground termination
- Nickel and brass plated wrap-around steel yoke

### Pre-Marked Wallplates Inches (mm)



Opening	Color	"Isolated Ground"	"Computer Only"
Duplex	Orange	<b>NP80IG</b>	<b>NPJ8CO</b>
Duplex	Ivory	—	<b>NPJ8C</b>
Single receptacle	Orange	<b>NP70IG</b>	—
Locking 1.60" (40.6) ID	Orange	<b>NP7200IG</b>	—

## Extra Heavy Duty Industrial Grade Receptacles



4700DRIG 4710IG

Amp	15A	
Face	RTP Nylon Face, Orange	
Wiring	Back and Side Wired	
Style	Duplex	Single
NEMA L5-15, 15A 125V, 2-Pole 3-Wire	<b>4700DRIG</b>	<b>4710IG</b>
NEMA L6-15, 15A 250V, 2-Pole 3-Wire	<b>70615DRIG</b>	<b>70615IG</b>

Note: \*Reinforced Thermoplastic Polyester.  
\*\*See page G-7 for dimensions on 4710 and 70615 series receptacles.



70520IG

Amp	20A
Face	RTP Nylon Face, Orange
Wiring	Back and Side Wired
Style	Single
NEMA L5-20, 15A 125V, 2-Pole 3-Wire	<b>70520IG</b>
NEMA L6-20, 20A 250V, 2-Pole 3-Wire	<b>70620IG</b>
NEMA L14-20, 20A 125/250V, 3-Pole 4-Wire	<b>71420IG</b>
NEMA L21-20, 20A 120/208V 3ØY, 4-Pole 5-Wire	<b>72120IG</b>

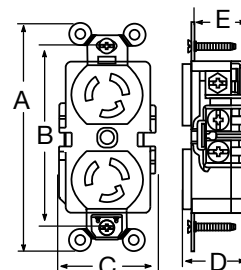


72130IG

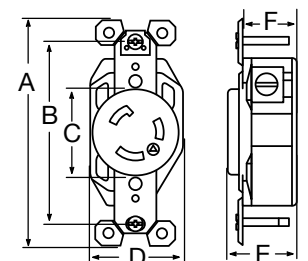
Amp	30A
Face	RTP Nylon Face, Orange
Wiring	Back and Side Wired
Style	Single
NEMA L5-30, 30A 125V, 2-Pole 3-Wire	<b>70530IG</b>
NEMA L6-30, 30A 250V, 2-Pole 3-Wire	<b>70630IG</b>
NEMA L14-30, 30A 125/250V, 3-Pole 4-Wire	<b>71430IG</b>
NEMA L21-30, 30A 120/208V 3ØY, 4-Pole 5-Wire	<b>72130IG</b>

## Product Dimensions Inches (mm)

	15A Duplex	15A Single	20A Single	30A Single
A	3.28" (83.3)	3.28" (83.3)	3.28" (83.3)	3.28" (83.3)
B	2.74" (69.5)	2.38" (60.5)	2.38" (60.5)	2.38" (60.5)
C	1.70" (43.2)	1.38" (35.1)	1.56" (39.6)	1.56" (39.6)
D	1.17" (29.7)	1.41" (35.8)	1.70" (43.2)	1.70" (43.2)
E	0.93" (23.6)	1.01" (25.7)	1.24" (31.5)	1.30" (33.0)
F	—	0.82" (19.3)	0.98" (24.9)	1.04" (26.4)



Duplex



Single

# Surge and Isolated Ground Devices



## Technical Specifications - Surge Receptacles

### Surge Receptacles

Description		Description	
Typical specification – catalog number	SP52IGA	Industrial grade isolated ground surge suppression duplex receptacle	
Manufacturer's identification	Bryant SP52IG Series	Type	2-pole, 3-wire, grounding
		Rating	15A 125V, NEMA 5-15R

### Certification

UL Listed, UL Standards 1449 surge protective devices and 498 receptacles  
 Certified to CSA, C22.2, No. 42

ANSI/IEEE C62.41 (IEEE 587) categories "A" and "B"  
 NEMA WD-6  
 Meets UL and CSA varistor thermal protection requirements

### Materials

Components	Materials
Cover and base	Nylon
Line contacts	High performance brass alloy
Mounting yoke	0.05 inch (1.3mm)
Terminal screws	Brass #8-32
Clamp nut	Brass - 0.03" (.8mm)
Grounding screw	Brass (green) #8-32
Ground contacts	High performance
Auto grounding assembly	Stainless steel
Flat head mounting screws	Zinc-plated steel

### Performance

Electrical	
UL voltage protection level	600V
Operating voltage	125V AC
Frequency	60 Hz
Protection modes	Normal mode (L-N), common mode (L-G) (N-G)
Noise filtration	RFI and EMI 100KHz, 4MHz-10DB to -20DB
Response time	Less than 5 nanoseconds (ns)
Peak energy 10X 1000µs	240 joules
Peak current 8X 20µs	15,000 Amps
Mechanical	
Terminal identification	Terminals identified in accordance with UL 498 (brass, white, green)
Terminal accommodation	#14-10 AWG copper conductor only, solid or stranded
Product identification	Ratings are a permanent part of the device
Environmental	
Flammability	Cover and base: UL 94 V2
Operating temperatures	Maximum continuous 20°C to 55°C



SP52IGA

## Technical Specifications - Portable Surge Protection Devices

### Portable Surge Protection Devices

Operating Specifications:			
MCOV		130V	
Operating frequency		50/60HZ	
Operating temperature		-40°F to 160°F (-40°C to 70°C)	
Performance			
UL VPR		400V	
EMI / RFI noise rejection BRYPS1050/BRYPS2100 Series		-20db	
Physical Specifications			
	BRYPS350/BRYPS1050/BRYPS2100	BRYMPS1050/ST16/ST115	
Housing type	ABS	Metal	
UL 1449 3rd Edition			
Warranty			
Downline warranty	BRYPS350/BRYMPS1050	BRYPS1050 Series	BRYPS2100 Series
	\$2,500	\$10,000	\$25,000



BRY8PS2100D