

# **SPIKESHIELD**<sup>™</sup> Surge Protective Devices (SPD)



UL 1449 3rd Edition



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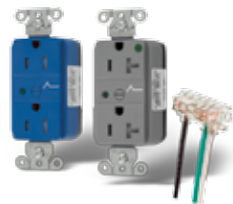
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SNAPConnect® Surge Receptacles



Surge Receptacles

## Applications



Commercial



Hospitality



Computer Labs



Healthcare



Data Centers



Schools and Universities



# Hubbell Surge Protective Devices (SPD)

A cascading approach is encouraged for optimal surge protection of any facility or home. A cascading approach includes surge protection at the service entrance, branch panel and the point-of-use. Hubbell offers a comprehensive offering of panel surge products, innovative surge strips, and the broadest surge receptacle offering in the industry.

## Panel Surge Products

The SpikeShield® line of panel surge protective devices offers a broad selection of products to meet the many requirements of industrial, commercial, institutional, and residential applications. Hubbell offers a complete offering of high quality, cost effective panel surge products.

- All Type 1 and Type 2 panel surge products are UL 1449 third edition listed.
- Protection levels from 50 kA to 320 kA to handle all real world surge events.
- 160 and 320 kA versions feature bus bar construction, bolt down modules, surge counter and a metallic NEMA 3R enclosure.
- Hubbell's wired-in surge units are ideal for service entrance, branch panel, or point of use applications such as protecting variable speed drives or other sensitive equipment on the plant floor.



## Surge Strip Products

Hubbell SpikeShield surge strip devices feature a wide range of products to handle every application or need. A good-better-best approach to surge protection levels offers products at every price point; this allows customers to choose the proper protection level for their application.

- Hubbell's energy saving surge strip turns power off to peripherals when power is turned off to the master.
- Two USB ports in our four outlet model are ideal for charging smart phones, MP3 players, GPS devices.
- The remote switch model allows power to be turned off from a distance.
- Yellow high visibility units are ideal for protecting sensitive equipment in areas that require a more robust surge strip.
- Other specialty applications that various products address include telephone line, CATV and satellite protection.
- Many units also accommodate transformer style plugs.



## Surge Receptacles

Hubbell offers a broad range SPD receptacles with technology that is unsurpassed. Inside Hubbell SPD receptacles are two 22mm square MOVs providing 240 joules of surge protection for each mode. The nylon component shield protects the printed circuit board from contaminants. An all-glass, conformably coated PC board provides superior moisture immunity for longer life in humid environments.







# 320kA, 160kA and 120kA Service/Branch Panel Protection

## 320,000 and 160,000 Peak Amp Capacity



- Improved performance through the use of a low impedance bus-bar design
- Replaceable surge suppression modules
- Surge counter included in all units
- NEMA 3R enclosure
- LED and audible alarm status indicator
- UL 1449-3rd edition



## 120,000 Peak Amp Capacity



- Economical, compact, modular design
- Protect branch panels, safety switches and load centers
- Appendage or flush mounted to a finished wall next to the panel
- Surge counter included in all units
- NEMA 3R enclosure
- LED and audible alarm status indicator
- UL 1449-3rd edition



### Service/Branch Panel Protection 320,000 Peak Amp Capacity (Type 2 SPD)

Voltage V AC	Configuration	Catalog Number	With Disconnect	Replacement Module
120/240 Single phase	1Ph. 3-wire +G	<b>HBL3P320A</b>	<b>HBL3P320DA</b>	<b>HBL160M120A</b>
120/208 Wye*	3Ph. Wye 4-wire +G	<b>HBL4P320A</b>	<b>HBL4P320DA</b>	<b>HBL160M120A</b>
240/120 Delta split phase	3Ph. Delta 4-wire +G 'High Leg'	<b>HBL6P320A</b>	<b>HBL6P320DA</b>	<b>HBL160M240A &amp; HBL160M120A</b>
277/480 Wye**	3Ph. Wye 4-wire +G	<b>HBL8P320A</b>	<b>HBL8P320DA</b>	<b>HBL160M277A</b>
347/600 Wye	3Ph. Wye 4-wire +G	<b>HBL10P320A</b>	<b>HBL10P320DA</b>	<b>HBL160M600A</b>



HBL4P320A

### Service/Branch Panel Protection 160,000 Peak Amp Capacity (Type 2 SPD)

Voltage V AC	Configuration	Catalog Number	With Disconnect	Replacement Module
120/240 Single phase	1Ph. 3-wire +G	<b>HBL3P160A</b>	<b>HBL3P160DA</b>	<b>HBL160M120A</b>
120/208 Wye*	3Ph. Wye 4-wire +G	<b>HBL4P160A</b>	<b>HBL4P160DA</b>	<b>HBL160M120A</b>
240/120 Delta split phase	3Ph. Delta 4-wire +G 'High Leg'	<b>HBL6P160A</b>	<b>HBL6P160DA</b>	<b>HBL160M240A &amp; HBL160M120A</b>
277/480 Wye**	3Ph. Wye 4-wire +G	<b>HBL8P160A</b>	<b>HBL8P160DA</b>	<b>HBL160M277A</b>
347/600 Wye	3Ph. Wye 4-wire +G	<b>HBL10P160A</b>	<b>HBL10P160DA</b>	<b>HBL160M600A</b>



HBL8P160DA

### Service/Branch Panel Protection 120,000 Peak Amp Capacity (Type 2 SPD)

Voltage V AC	Configuration	Catalog Number	Replacement Module
120/240 Single Phase	1Ph. 3-wire +G	<b>HBL3P120B</b>	<b>HBL3P120BM</b>
120/208 Wye*	3Ph. Wye 4-wire +G	<b>HBL4P120B</b>	<b>HBL4P120BM</b>
240/120 Delta split phase	3Ph. Delta 4-wire +G 'High Leg'	<b>HBL6P120B</b>	<b>HBL6P120BM</b>
277/480 Wye**	3Ph. Wye 4-wire +G	<b>HBL8P120B</b>	<b>HBL8P120BM</b>
347/600 Wye	3Ph. Wye 4-wire +G	<b>HBL10P120B</b>	<b>HBL10P120BM</b>



HBL8P120A

Note: Units come standard with Surge Counter.

\*120/208 Wye also applies to 127/220 Wye.

\*\*277/480 Wye also applies to 220/380 Wye, 230/400 Wye and 240/415 Wye.



# Wired-In Branch Panel Protection, Surge Arrestors and Surge Protective Devices

## Wired-In Branch Panel Protection



- 100,000 Peak Amperage Capacity
- Ideal for areas where space is a major consideration
- Can be mounted directly to the panel through a chase nipple connection to reduce lead length and impedance
- NEMA 4X housing
- 200kA SCCR rating
- UL 1449-3rd edition



## Wired-In Surge Arrestors and Surge Protective Devices



- 36,000, 40,000 and 50,000 Peak Amperage Capacity
- Surge arrestors are a low cost solution that may be installed on the line side or load side of the service entrance
- Excellent for OEM applications where size is an important variable
- Single phase wired-in surge protective devices feature a compact design
- NEMA 4X Rated
- UL 1449-3rd edition



### Wired-In Branch Panel Protection 100,000 Peak Amp Capacity (Type 2 SPD)

Service Voltage V AC	Configuration	Catalog Number
120/240 Single Phase	1Ph. 3-wire +G	<b>HBL3W100C</b>
120/208 Wye*	3Ph. Wye 4-wire +G	<b>HBL4W100C</b>
240 Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL5W100C</b>
240/120 Delta split phase	3Ph. Delta 4-wire +G 'High Leg'	<b>HBL6W100C</b>
277/480 Wye**	3Ph. Wye 4-wire +G	<b>HBL8W100C</b>
480 Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL9W100C</b>
347/600 Wye	3Ph. Wye 4-wire +G	<b>HBL10W100C</b>
600 Delta	3Ph. Delta 3-wire Corner Gnd <sup>Δ</sup>	<b>HBL11W100C</b>

Note: \*120/208 Wye also applies to 127/220 Wye.

\*\*277/480 Wye also applies to 220/380 Wye, 230/400 Wye and 240/415 Wye.

<sup>Δ</sup>Also can be used on ungrounded systems.



HBL9W100C



HBLSDSA40

### Wired-In Surge Arrestors, Single Phase 36,000 and Three Phase 40,000 (Type 1 / Type 2 SPD)

Service Voltage V AC	Configuration	Peak Amp Capacity	Mounting Means	Catalog Number
120/240 Single Phase	1Ph. 3-wire	36kA	Back Nipple Mount	<b>HBLSDSA36</b>
347/600V Max	3Ph. 3-wire	40kA	Back Nipple Mount	<b>HBLSDSA40</b>
Three Phase				



HBLSDSA36

### Wired-In Surge Protective Devices 50,000 and 120,000 Peak Amp Capacity (Type 1/Type 2 SPD)

Service Voltage V AC	Configuration	Peak Amp Capacity	Mounting Means	Catalog Number
120/240 Single Phase	1Ph. 3-wire + G	50kA	Side Nipple Mount	<b>HBL3W50</b>



HBL3W50



# Whole House Surge Protection

## Whole House Surge Protection



- Offers homeowners the ability to protect their entire house with one unit
- HBLWH80 offers power, telephone and coax protection



### Whole House Surge Protection (Type 2 SPD - HBLWH80 only)

Service Voltage V AC	Configuration	Peak Amp Capacity	Catalog Number
120/240 Single Phase	1phase 3-wire	80kA	HBLWH80

# SNAPConnect® Tamper Resistant Surge Receptacles

## SNAPConnect® Surge Receptacles

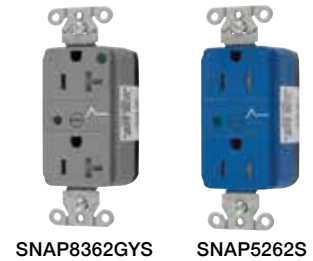


- Attractive Flush Fit
- Shallow Box Depth Means More Room for Wiring
- Meet NEC® Code for Tamper Resistant
- SNAPConnect® Eliminates Exposed Live Terminals on the Device



### SNAPConnect® TR Surge Protection Receptacle with Power Indicating LED

Color	Hospital Grade		Commercial Grade	
	15A 125V	20A 125V	15A 125V	20A 125V
Blue	SNAP8262S	SNAP8362S	SNAP5262S	SNAP5362S
Gray	SNAP8262GYS	SNAP8362GYS	SNAP5262GYS	SNAP5362GYS
Ivory	SNAP8262IS	SNAP8362IS	SNAP5262IS	SNAP5362IS
Light Almond	SNAP8262LAS	SNAP8362LAS	SNAP5262LAS	SNAP5362LAS
Red	SNAP8262RS	SNAP8362RS	-	-
White	SNAP8262WS	SNAP8362WS	SNAP5262WS	SNAP5362WS



### SNAPConnect® Right Angle Pigtailed Connector, 600V

Description	Solid	Stranded
Clear right angle terminal with 6 inch leads #12 AWG THHN/THWN-2; polycarbonate housing material	SNAP1RA	SNAP2RA



SNAP1RA





# Surge Receptacles

## SpikeShield® Specification Grade Duplex Receptacle



- Meets UL Standards 1449 3rd Edition and 498
- Power-on indicator light
- Muting screw allows damage-alert alarm to be silenced until device is replaced.
- Distinctive surge symbol provides quick visual identification of surge suppression receptacle
- Available in Hospital Grade and 4-PLEX®
- See page 6 for SNAPConnect® Tamper-Resistant Surge Receptacles



## SpikeShield® Specification Grade Isolated Ground Duplex Receptacle



- IG triangle on the face of the receptacle clearly indicates isolated ground device on the face of the receptacle
- A “Clean” Path Provides A “Clean” Ground For Sensitive Equipment
- Power-on indicator light
- Meets UL Standards 1449 3rd Edition and 498
- Available in Hospital Grade



## SpikeShield® Specification Grade Receptacles



Description	Color	Standard		Hospital Grade ●	
		15A	20A	15A	20A
Surge suppression duplex receptacles with light, 240 joules/15000A per mode.	Blue	<b>HBL5260SA</b>	<b>HBL5360SA</b>	—	—
	Ivory	<b>HBL5260ISA</b>	<b>HBL5360ISA</b>	—	—
	Office White	<b>HBL5260WSA</b>	<b>HBL5360WSA</b>	—	—
Surge suppression duplex receptacles with light and alarm, 240 joules/15000A per mode.	Almond	<b>HBL5262ALSA</b>	<b>HBL5362ALSA</b>	<b>HBL8262ALSA</b>	<b>HBL8362ALSA</b>
	Blue	<b>HBL5262SA</b>	<b>HBL5362SA</b>	<b>HBL8262SA</b>	<b>HBL8362SA</b>
	Gray	<b>HBL5262GYSA</b>	<b>HBL5362GYSA</b>	<b>HBL8262GYSA</b>	<b>HBL8362GYSA</b>
	Ivory	<b>HBL5262ISA</b>	<b>HBL5362ISA</b>	<b>HBL8262ISA</b>	<b>HBL8362ISA</b>
	Office White	<b>HBL5262OWSA</b>	<b>HBL5362OWSA</b>	—	—
	Red	—	—	<b>HBL8262RSA</b>	<b>HBL8362RSA</b>
	White	<b>HBL5262WSA</b>	<b>HBL5362WSA</b>	<b>HBL8262WSA</b>	<b>HBL8362WSA</b>
Isolated ground, surge suppression duplex receptacles with light and alarm, 240 joules/15000A per mode.	Blue	<b>IG5262SA</b>	<b>IG5362SA</b>	<b>IG8262SA</b>	<b>IG8362SA</b>
	Gray	<b>IG5262GYSA</b>	<b>IG5362GYSA</b>	<b>IG8262GYSA</b>	<b>IG8362GYSA</b>
	Ivory	<b>IG5262ISA</b>	<b>IG5362ISA</b>	<b>IG8262ISA</b>	<b>IG8362ISA</b>
	Office White	<b>IG5262OWSA</b>	<b>IG5362OWSA</b>	—	—
	Orange	—	—	<b>IG8262OSA</b>	<b>IG8362OSA</b>
	Red	<b>IG5262OSA</b>	<b>IG5362OSA</b>	<b>IG8262RSA</b>	<b>IG8362RSA</b>
4-PLEX® surge suppression duplex receptacles with lights. 80 joules/6500A per mode.	Blue	<b>HBL415S</b>	<b>HBL420S</b>	—	<b>HBL420HS</b>
	Ivory	<b>HBL415IS</b>	<b>HBL420IS</b>	—	<b>HBL420HIS</b>
	Red	—	—	—	<b>HBL420HRS</b>



## 4-PLEX® Accessories

Description	Color	Catalog Number
4-PLEX adapter plates for 1- and 2-gang device boxes (4-PLEX mounts directly to 4" (101.6) square device boxes.)	Blue	<b>HBL4APBL</b>
	Ivory	<b>HBL4API</b>
	Red	<b>HBL4APR</b>
4-PLEX portable box. Portable 4" (101.6) square box with one cord grip. Accepts up to .66" (16.8) diameter cord.	Ivory	<b>HBL4PBI</b>



Note: 4-PLEX® box is not UL Listed.



# Surge Strips

## Non-Metallic Surge Strips



- Transformer spaced outlet(s)
- 15A resettable push on/off circuit breaker switch
- Power and ground indicating LEDs
- Available with Fax/Modem, Fax/Modem/CATV and Fax/Modem/CATV/DSS protection



## High Visibility Yellow Surge Strips



- Metal housing
- Three transformer spaced outlets (two on six outlet model)
- Six foot cord
- Wire management feature
- Power on breaker switch
- 350 joules/6.5kA rating
- \$2,500 down line protection warranty\*



## Metallic Strips

Description	# of Outlets	Joule Rating	Peak AMP Rating	Cord Length	Color	Down Line Warranty*	Catalog Number
Metal Power Strip (No surge protection)	6	N/A	N/A	6'	Office White	N/A	<b>HBL6MPS</b>
Metal SPD	6	1,050	19.5 kA	6'	Office White	\$2,500	<b>HBL6MPS1050</b>
SPD w/Wire Management	6	350	6.5 kA	6'	Yellow	\$2,500	<b>HBL6PS350YL</b>
SPD w/Wire Management	8	350	6.5 kA	6'	Yellow	\$2,500	<b>HBL8PS350YL</b>
Heavy Duty SPD w/HBL5352BK Receptacles	6	900	30 kA	6'	Black	N/A	<b>HBL6PS</b>
Heavy Duty SPD w/HBL8200HW Receptacles	6	900	30 kA	6'	Black	N/A	<b>HBL6PSHG</b>



## Non-Metallic Strips

Description	# of Outlets	Joule Rating	Peak AMP Rating	Cord Length	Color	Down Line Warranty*	Catalog Number
Power Strip (No surge protection)	6	N/A	N/A	6'	Office White	N/A	<b>HBL6PPS</b>
SPD	6	350	6.5 kA	6'	Office White	\$2,500	<b>HBL6PS350A</b>
SPD	6	350	6.5 kA	15'	Office White	\$2,500	<b>HBL6PS35015A</b>
SPD w/Fax/Modem	6	1,050	19.5 kA	6'	Office White	\$2,500	<b>HBL6PS1050MA</b>
SPD	7	1,050	19.5 kA	6'	Office White	\$10,000	<b>HBL7PS1050A</b>
SPD w/Fax/Modem	7	1,050	19.5 kA	6'	Office White	\$10,000	<b>HBL7PS1050MA</b>
SPD	7	1,050	19.5 kA	15'	Office White	\$10,000	<b>HBL7PS105015A</b>
SPD w/Fax/Modem/CATV	8	2,100	39 kA	6'	Office White	\$25,000	<b>HBL8PS2100MA</b>
SPD w/Fax/Modem/CATV/DSS	8	2,100	39 kA	6'	Office White	\$25,000	<b>HBL8PS2100DA</b>



\*See warranty information inside product box for details.

## Plug-In Style Surge Outlets

Description	# of Outlets	Joule Rating	Peak AMP Rating	Cord Length	Color	Warranty	Catalog Number
Single outlet plug-in SPD	1	750	13.5kA	N/A	Off White	N/A	<b>HBL1PI750</b>
Single outlet plug-in SPD w/ phone line protection	1	750	13.5kA	N/A	Off White	N/A	<b>HBL1PI750M</b>
Single outlet plug-in SPD w/ CATV protection	1	750	13.5kA	N/A	Off White	N/A	<b>HBL1PI750C</b>
Three outlet plug-in SPD	3	750	13.5kA	N/A	Off White	N/A	<b>HBL3PI750</b>





## Specialty Surge Strips

### Energy Saving Surge Strip



- Shuts down power to peripherals when the item plugged into the master is turned off
- Three uncontrolled transformer spaced outlets
- Six foot power cord
- 1050 joules / 19.5 kA rating
- \$10,000 down line protection warranty\*



### Surge Strip with USB Ports



- Two USB ports for charging cameras, GPS, or MP3 players
- Four transformer spaced outlets
- Black non-metallic housing with six foot cord and lighted power on switch
- Power and ground indicating LEDs
- Features 90° Right Angle Plug
- 1050 joules/19.5kA rating
- \$10,000 down line protection warranty\*



### Surge Strip with Remote



- Four outlets controlled by transmitter
- Remote switch operated with keychain transmitter
- Two transformer spaced outlets
- Power and ground indicating LEDs
- 2100 joules/39kA rating
- \$25,000 down line protection warranty\*



### Surge Strip with USB Port

Description	# of Outlets	Joule Rating	Peak AMP Rating	Cord Length	Color	Down Line Warranty*	Catalog Number
Non-metallic SPD with two USB ports	4	1,050	19.5 kA	6'	Black	\$10,000	<b>HBL4PS1050USB</b>



HBL4PS1050USB

### Surge Strip with Remote Switch

Description	# of Outlets	Joule Rating	Peak AMP Rating	Cord Length	Color	Down Line Warranty*	Catalog Number
Non-metallic remote switch SPD with one keychain control	6	2,100	39 kA	6'	Office White	\$25,000	<b>HBL6RSPS2100</b>



HBL6RSPS2100

### Energy Saving Surge Strip

Description	# of Outlets	Joule Rating	Peak AMP Rating	Cord Length	Color	Down Line Warranty*	Catalog Number
Energy Saving SPD with master/controller design with fax/modem	8	1,050	19.5 kA	6'	Office White	\$10,000	<b>HBL8ESPS1050M</b>
Energy Saving SPD master/controller design with CATV protection	8	1,050	19.5 kA	6'	Office White	\$10,000	<b>HBL8ESPS1050C</b>



HBL8ESPS1050M

\*See warranty information inside product box for details.



## Surge Panel Specifications

### 320kA, 160kA and 120kA Service/Branch Panel Protection

#### Electrical Specifications

Catalog Number	SCCR <sup>◇</sup>	In	MCOV <sup>†</sup>	Voltage Protection Rating (VPR)				
				L-N	L-G	N-G	L-L	
HBL3P320A	HBL3P160A	200kA	20kA	150/300	700	700	700	1200
HBL4P320A	HBL4P160A	200kA	20kA	150/300	700	700	700	1200
HBL6P320A	HBL6P160A	200kA	20kA	270/150	1200/700	1200/700	700	1500/1000
HBL8P320A	HBL8P160A	200kA	20kA	320/640	1200	1200	1200	1200
HBL10P320A	HBL10P160A	200kA	20kA	420/840	1500	1500	1500	2500
HBL3P120B		200kA	20kA	150/270	700	700	700	1200
HBL4P120B		200kA	20kA	150/270	700	700	700	1200
HBL6P120B		200kA	20kA	275/150	1000/700	1000/700	700	1500/1200
HBL8P120B		200kA	20kA	320/640	1200	1200	1200	2000
HBL10P120B		200kA	20kA	390/780	1500	1500	1500	2500

#### Product Specifications

Max. Surge Current per Phase: **320kA, 160kA and 120kA**

Max. Operating Temperature: -40°F to 149°F (-40°C to 65°C)

Diagnostics: Red & Green LEDs, Diagnostic Test Switches, Dry Contacts, Audible Alarm, Surge Counter

EMI/RFI: Up to -30dB

NEMA: 3R/12 Metallic

Listing: cULus UL1449-3rd edition type 2 SPD, UL1283, CSA C22.2 NO. 8-M1986

Warranty: 10 year

Dimensions:	320kA	160kA Wye	160kA Delta	120kA
		6"D x 16.44"W x 21.40"L	w/ Disconnect: 6"D x 20"W x 24"L w/o Disconnect: 6"D x 12"W x 12"L	w/ Disconnect: 6"D x 16"W x 20"L w/o Disconnect: 7"D x 14"W x 16"L
Weight:	with Disconnect: 57.5 lbs. without Disconnect: 54 lbs.	with Disconnect: 21.9 lbs. without Disconnect: 21.8 lbs.		21.8 lbs.
Terminal Accommodation:	#10 AWG to #2 AWG	#10 AWG to #2 AWG		#12 AWG to #2 AWG
Frequency:	50/60 Hz	50/60 Hz		50/60/400 Hz

## Wired-In Branch Panel Protection, Surge Arrestors and Surge Protective Devices

#### Electrical Specifications

Catalog Number	SCCR <sup>◇</sup>	In	MCOV <sup>†</sup>	Voltage Protection Rating (VPR)			
				L-N	L-G	N-G	L-L
HBL3W100C	200kA	20kA	150/270	900	1200	700	1500
HBL4W100C	200kA	20kA	150/270	900	1200	700	1500
HBL5W100C	200kA	20kA	300	N/A	N/A	N/A	1500
HBL6W100C	200kA	20kA	275/150	1000	1200	700	1500
HBL8W100C	200kA	20kA	320/640	1200	2000	1000	2500
HBL9W100C	200kA	20kA	640	N/A	N/A	N/A	3000
HBL10W100C	200kA	20kA	390/780	1500	2500	1500	3000
HBL11W100C	200kA	20kA	780	N/A	N/A	N/A	3000
HBLSDSA36	25kA	10kA	150	700	N/A	N/A	1200
HBLSDSA40	200kA	10kA	750/1500	2500	N/A	N/A	4000
HBL3W50	25kA	10kA	150/300	700	800	N/A	1200
HBL3W120	25kA	10kA	150/300	700	800	N/A	1200

#### Product Specifications

Max. Surge Current per Phase:	100kA	36kA / phase	40kA / phase	50kA
Max. Operating Temperature:	-40°F to 140°F (-40°C to 60°C)	-40°F to +160°F (-40°C to +70°C)	-40°F to +160°F (-40°C to +70°C)	-40°F to +160°F (-40°C to +70°C)
Diagnostics:	Green Status LEDs, Audible Alarm, Dry Contacts	Green Status LED per line	Green Status LED per line	Green Status LED per line
Dimensions:	3.1"D x 9.9"W x 4.8"H	1.9"D x 2.25"W x 2.25"H	2.64"D x 3.6"W x 3.0"H	2.7"D x 3.0"W x 3.6"H
Weight:	4.78 lbs.	.72 lbs.	1.8 lbs.	1.8 lbs.
Terminal Accommodation:	#10 AWG 18.0" Wire Leads	#14 AWG Wire Leads	#12 AWG Wire Leads	#12 AWG Wire Leads
Frequency:	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
EMI/RFI:	Up to -30dB	Up to -30dB	Up to -30dB	Up to -30dB
NEMA enclosure rating:	Type 4X	Type 4X	Type 4X	Type 4X
Listing:	cULus UL1449-3rd edition type 2 SPD, UL1283 (Wye prod. only), CSA C22.2 NO. 8-M1986	UL1449-3rd edition	UL1449-3rd edition	UL1449-3rd edition
Warranty:	10 year	2 year	2 year	10 year

## Whole House Surge Protection

#### Electrical Specifications

Catalog Number	SCCR <sup>◇</sup>	In <sup>‡</sup>	MCOV <sup>†</sup>	Voltage Protection Rating (VPR)			
				L-N	L-G	N-G	L-L
HBLWH80	200kA	10kA	150/270	900	1200	700	1500
HBL80MPC	10kA	10kA	150/per phase	700	N/A	N/A	N/A

◇SCCR: Short Circuit Current Rating

† MCOV: Maximum Continuous Operating Voltage.

‡ In: Nominal discharge current

#### Product Specifications

HBLWH80	
Max. Surge Current per Phase:	80 kA / phase
Max. Total Surge Current:	—
Max. Operating Temperature:	-40°F to +160°F (-40°C to +70°C)
Diagnostics:	Green Status LED per line
Dimensions:	3.44"D x 5.93"W x 13.18"L
Weight:	8.8 lbs
Terminal Accommodation:	Terminal Block
NEMA:	NEMA 1
Listing:	UL 1449 3rd Edition
Warranty:	2 year
Max. Impulse Voltage (Telephone)	330V DC



# Surge Protective Device Specifications

## SpikeShield® Surge Protection Plug Strips

	PS350 Series	MPS350 Series	PS350YL Series	PS1050 Series	PS2100 Series	6PS Series	HBLCATC
<b>Operating Specifications</b>							
Max. Cont. Operating Voltage	130	130	130	130	130	130	24Vpk
Operating Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Max Surge Current	6.5 kA	6.5 kA	6.5 kA	19.5 kA	39.0 kA	30.0 kA	200
Operating Temperature	----- -40°F to 160°F (-40°C to 70°C) -----						
<b>Performance</b>							
UL Voltage Protection Rating	400V	400V	400V	400V	400V	500V	45V
MI / RFI Noise Rejection	—	—	—	-20dB	-20dB	-20dB	—
<b>Warranty</b>							
Downline Warranty*	\$2,500	\$2,500	\$2,500	\$2,500 (6PS1050) \$10,000 (all others)	\$25,000	—	—
<b>Physical Specifications</b>							
Housing Type	ABS	Metal	Metal	ABS	ABS	Metal	ABS
Color	Office White	Office White	Yellow	Office White	Office White	Black	Office White

\*See warranty information inside product box for details.

## Dimensions

Series	Length	Width	Height	Series	Length	Width	Height
HBL6PS350/1050 Series & HBL6PPS	11.2" (284.5)	2.36" (59.9)	1.85" (47.0)	HBL8PS350YL	10.0" (254.0)	6.0" (152.4)	1.85" (47.0)
HBL7PS1050 Series	14.75" (374.7)	2.36" (59.9)	1.85" (47.0)	HBL8ESPS Series	10.4" (264.2)	3.8" (96.5)	1.44" (36.6)
HBL6MPS Series	12.25" (311.2)	2.5" (63.5)	1.5" (38.1)	HBL6RSPS Series	9.12" (231.6)	4.4" (111.8)	1.68" (42.7)
HBL6PS350YL	14.75" (374.7)	2.5" (63.5)	1.85" (47.0)	HBL4PS1050USB	10.38" (263.7)	3.81" (96.8)	1.44" (36.6)

## Surge Protection Receptacles

	Part	Duplex	4-PLEX®
<b>Typical Specification</b>		<b>HBL5262SA/HBL5362SA</b> <b>SNAP5262S/SNAP5362S</b>	<b>HBL4AP</b>
Type—2 Pole, 3 Wire, Grounding	Receptacle	15A/20A	15A/20A
	Top	Nylon	Lexan®
	Base	Nylon	Lexan®
	Power Contact	.031" (.8) Brass	.032" (.8) Brass
	Contact Design	Tandem Modified Bypass	Triple Wipe
Rating—15A, 125V AC/20A, 125V AC	Mounting Strap	.050" (1.3) Steel-Zinc Coated	—
Certification—UL Listed File E2186	Clamping Plate	.031" (.8) Brass	.031" (.8) Brass-Line Terminal Plate
Listed to UL Standards 498 Receptacles			.031" (.8) Brass-Neutral-Terminal Plate
Meets UL1449-2.5	Terminal Screws	Brass #8-32 (HBL only)	Brass #8-32
	Grounding Screw	Steel (Green) (HBL only)	Brass (Green)
CSA Certified to Specification C22.2 No. 42	Auto Grd. Clip	Stainless Steel	.050" (1.3) Ground Plate
ANSI/IEEE C62.41 (IEEE 587)	Mounting Screws	Steel-Zinc Plated	Brass
Installation Categories "A" (Ring Wave)	LED	Green	Green
"B" (Unidirectional Impulse)	Alarm Muting Screw	Nylon	—

## Performance

Electrical	Duplex/ SNAPConnect®		4-PLEX®	
Frequency	60Hz		60Hz	
Voltage	120V AC + 10%–15%		20V AC + 10%–15%	
Response Time	Approximately 5 ns		Approximately 5 ns	
Protection Modes	Normal and Common Modes		Normal and Common Modes	
Transient Suppression	Peak Energy (10 X 100 µs)	Peak Current (8 X 20 µs)	Peak Energy (10 X 100 µs)	Peak Current (8 X 20 µs)
Normal Mode (L-N)	240 joules	15000A	80 joules	6500A
Common Mode (L-G), (N-G)	240 joules	15000A	80 joules	6500A
UL Voltage Protection Rating	600 L-N, 600 L-G	1000 N-G	600 L-N, 600 L-G	900 N-G
EMI/RFI Attenuation at 50 Ohms Normal Mode	-40 dB			
Operating Temperature	32°F to 140°F (0°C to 60°C)		-40°F to 140°F (-40°C to 60°C)	
Flammability	UL 94V-2		UL 94V-2	

Lexan® is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

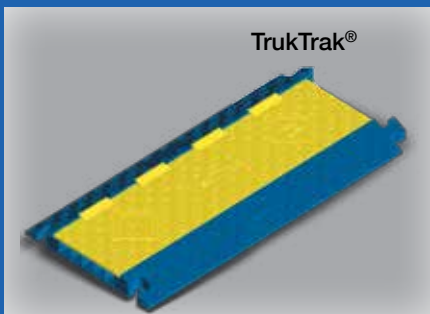




## Also available from Hubbell...



Isolated Ground Receptacles provide a clean noise-free ground. Hubbell's IG Receptacles are available in over 60 types of receptacles including straight blade duplex, surge and Style Line® decorator and locking single and duplex.



Non-metallic modular cable protectors safeguard electrical cables and cords from vehicle and pedestrian traffic. TrukTrak® is ideal for industrial environments using heavy trucks and fork lifts.



Hubbell offers the broadest line of Industrial Grade, Commercial Grade, Self-Test, Tamper-Resistant, and Weather Resistant Ground Fault Receptacles.



Tamper-Resistant receptacles incorporate internal mechanisms to limit access to energized internal components.



Portable GFCI line cords provide ground fault for both indoors and out. Available in either manual or auto set with lengths of 18", 6' and 25' available.



The 20A GFCI module can be panel or box mounted for protection of downstream wired receptacles or equipment. The GFM20 features a high impact, UV resistant Type 3R housing with manual set.



## Website Support

The Hubbell Wiring Systems website offers fast convenient information with our online virtual catalog, technical support, literature support and more. The website also offers landing pages for vertical markets and sustainable building. Visit [www.hubbell-wiring.com](http://www.hubbell-wiring.com).

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