

## UL TESTING AND LISTING

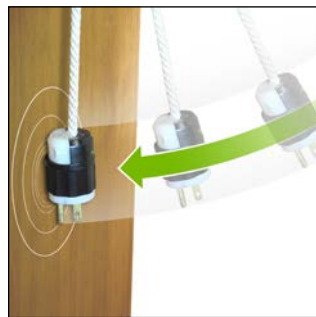
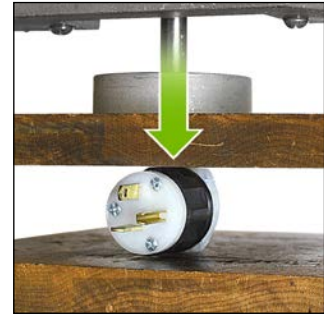
### Hospital Grade Wiring Device Tests

All UL Listed attachment plugs, connectors and receptacles, including hospital grade plugs, connectors and receptacles, must comply with applicable construction and performance requirements in UL 498, the Standard for Safety for Attachment Plugs and Receptacles. In addition to complying with the general use receptacle Listing requirements, hospital grade plugs, connectors and receptacles incorporate additional construction features and are subjected to additional performance requirements. These include grounding reliability, assembly integrity, and strength and durability tests.

#### UL Testing for Plugs and Connectors

##### Crush Test ▶

A wired plug or connector is placed between two steel plates and subjected to a force which is steadily increased to 500 pounds. "There shall be no breakage, deformation or other effect that may interfere with the function of the device."



##### ◀ Mechanical Drop Test

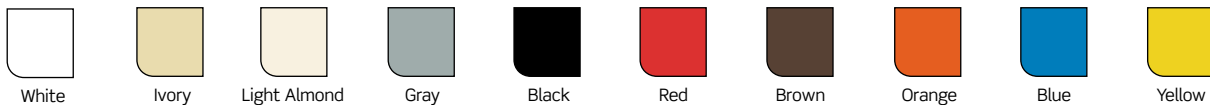
A sample wired plug or connector is suspended horizontally by its attached cord and released so that it impacts a hard wood surface 45 inches below the point of suspension. This procedure is repeated for 1300 cycles. "There shall be no breakage, deformation, or other damage which would interfere with the functioning of the device."

##### Cord Pull Test ▶

The cord must remain securely fastened after straight pulls of 30 pounds and rotating pulls (in a 3-inch circle) of 10 pounds for two hours. "Displacement of conductors, insulation, and outer jacket of the flexible cord shall not exceed 1/32 inch. There shall be no cuts, rips, or tears in cord insulation." Heavy-duty cord stress is typical abuse for industrial plugs and connectors.



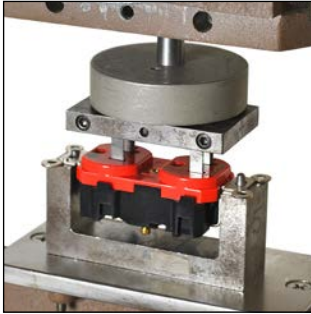
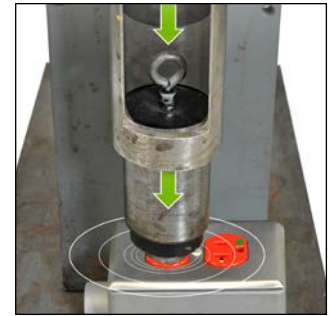
#### Color Choices Hospital grade devices are offered in a wide range of colors.



### UL Testing for Receptacles

#### Impact Test ▶

A receptacle mounted in a box is subjected to impact from a 5 lb. weight dropped from a height of 18 inches. "There shall be no breakage, deformation or other effect that may interfere with the function of the device."



#### ◀ Assembly Security Test

A force of 100 pounds is applied through the slots to the base of the receptacle while the yoke is supported at its screw mounting positions. There must be no cracking of base or permanent deformation of yoke.

#### Abrupt Removal of Plug Test ▶

A steel-bodied test plug with brass blades is inserted into the receptacle. A 10 lb. weight dropped from 24 inches yanks the plug out of the receptacle. This test is done eight times with the receptacle rotated into different positions to create the greatest stress on its face and contact. After this, the grounding contact must retain a four ounce, 0.184" diameter grounding pin, for one minute. There shall be no breakage of the receptacle that interferes with the receptacle function or the integrity of the enclosure. The receptacle shall maintain the grounding path integrity through the receptacle.



#### ◀ Ground Pin Retention Test

The grounding contact of the receptacle is conditioned by 20 insertions with a .024" oversized pin. After conditioning, a 0.184" diameter pin shall be inserted in the grounding contact which shall be capable of supporting at least four ounces for one minute.

#### Power Blade Retention Test ▶

A test plug with oversized blades of .075" is inserted into the current carrying opening of the receptacle for 20 conditioning cycles. After the conditioning cycles, the contact shall be capable of supporting 1 1/2 lbs. secured to a single .055" thick solid steel blade without holes for one minute.





### GFCI Receptacles

#### SmartlockPro® Slim Series GFCI Receptacles

Industry-leading quality, professional grade lockout action, and one of the slimmest profiles on the market make Hospital Grade SmartlockPro® Slim GFCIs the smartest choice in ground fault circuit interrupter protection. Faster and easier to install in any wallbox because depth is reduced, the slim GFCIs flush mount to the wall with minimal protrusion for a sleek, finished look.

#### Back and Side Wired GFCI with Professional Grade Lockout

Rating	15A-125V @ Receptacle 20A-125V Feed-Through	20A-125V @ Receptacle 20A-125V Feed-Through
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NEMA	 5-15R	 5-20R
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Description	Color	5-15R		5-20R	
		Cat. No. <b>TR*</b>	Cat. No. <b>Non-TR**</b>	Cat. No. <b>TR*</b>	Cat. No. <b>Non-TR**</b>
GFCI Duplex Receptacle with LED Indicator Light (with self-grounding clip)	Brown	X7599-HG	N7599-HG	X7899-HG	N7899-HG
	Ivory	X7599-HGI	N7599-HGI	X7899-HGI	N7899-HGI
	White	X7599-HGW	N7599-HGW	X7899-HGW	N7899-HGW
	Black	X7599-HGE	N7599-HGE	X7899-HGE	N7899-HGE
	Gray	X7599-HGG	N7599-HGG	X7899-HGG	N7899-HGG
	Lt Almond	X7599-HGT	N7599-HGT	X7899-HGT	N7899-HGT
	Red	X7599-HGR	N7599-HGR	X7899-HGR	N7899-HGR
Self-Test GFCI Duplex Receptacle with LED Indicator Light (with self-grounding clip)	Brown	S7599-HG	—	S7899-HG	—
	Ivory	S7599-HGI	—	S7899-HGI	—
	White	S7599-HGW	—	S7899-HGW	—
	Black	S7599-HGE	—	S7899-HGE	—
	Gray	S7599-HGG	—	S7899-HGG	—
	Lt Almond	S7599-HGT	—	S7899-HGT	—
	Red	S7599-HGR	—	S7899-HGR	—
Duplex GFCI with Guide Light, LED Indicator Light (with self-grounding clip)	Brown	X7592-HG	—	X7892-HG	—
	Ivory	X7592-HGI	—	X7892-HGI	—
	White	X7592-HGW	—	X7892-HGW	—
	Black	X7592-HGE	—	X7892-HGE	—
	Gray	X7592-HGG	—	X7892-HGG	—
	Lt Almond	X7592-HGT	—	X7892-HGT	—
	Red	X7592-HGR	—	X7892-HGR	—
Weather-Resistant GFCI Duplex Receptacle with LED Indicator Light	Brown	—	—	—	—
	Ivory	WT599-HGI	—	WT899-HGI	—
	White	WT599-HGW	—	WT899-HGW	—
	Black	—	—	—	—
	Gray	—	—	—	—
	Lt Almond	—	—	—	—
	Red	WT599-HGR	—	WT899-HGR	—

\*TR versions are tamper resistant and feature a shutter mechanism inside the receptacle that blocks access to the contacts unless a two-prong plug is inserted.

\*\*Non-TR versions are not tamper resistant



X7599-HGT



X7892-HGW



WT899-HGI



#### Wallplates

We carry assorted special purposes wallplates, including ones engraved 'Emergency'. See page T-22 in the **Wallplates & Weather-Resistant Covers** section.