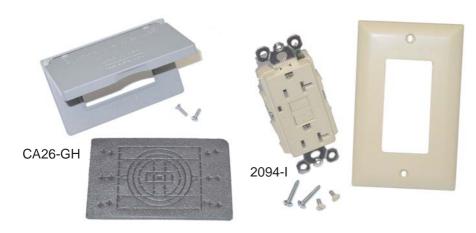


Product Information









USA / Canada

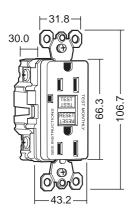
GFCI Receptacles and Covers 15A and 20A Versions

Typical Specifications

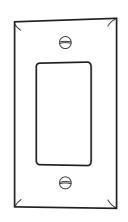
- · Receptacle: Straight Blade Duplex GFCI
- 2 Pole, 3 Wire Grounding
- Ratings: 20A, 125VAC Feed Thru,

15A, 125VAC or 20A, 125VAC FACE

- 3rd Party Compliance: cULus Listed, Standard UL498, Federal Specification WC596 (15A).
- Standard CSA-C22.2 No. 42, General Use Receptacles, CSA-C22.2 No. 144 GFCIs.
- Conforms to NEMA WD-1, WD-6.



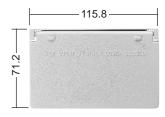
1594 shown Dimensions for all GFCI receptacles



Color matching standard wallplate, supplied with each GFCI receptacle (74.3 x 119.0 x 6.0)mm



Vertical
1 Self-Closing Lid



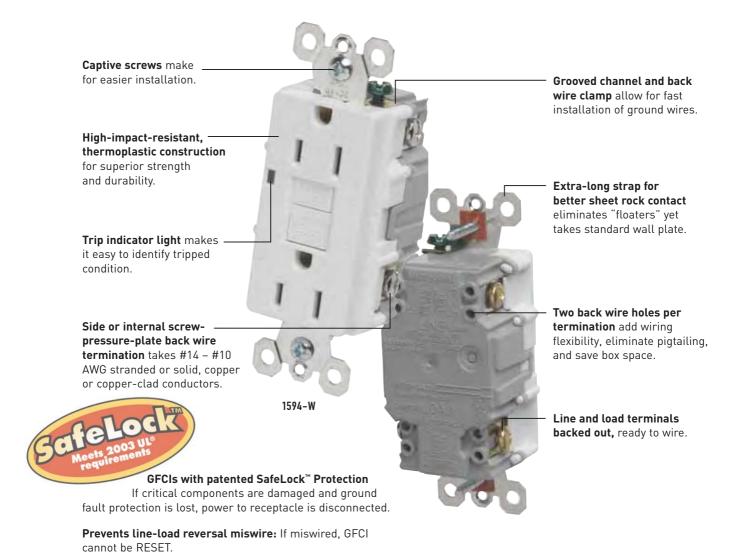
Horizontal
1 Self-Closing Lid

To learn more about B-I-A please visit us at our WEB site: www.BiaGmbH.com





Innovative features speed installation and ensure durability.



To learn more about B-I-A please visit us at our WEB site: www.BiaGmbH.com

Improved resistance to surge, corrosion and electrical



power line noise.



BalaA Product Information

						3rd Party Compliance			
Catalog Number	Ra A.	ating VAC	Colors	Descripton	NEMA	cÜL∪s UL943/C22.2 No. 144	cÜL∪s UL498/C22.2 No. 42	FSUL/ WC596	շՄլ) us UL20/C22.2 No. 111
GFCI Receptacles						•			
1594-*	15	125	Brown, I, LA, W, BK, GRY, RED	Spec Grade 15 Amp Duplex	5-15R	•	•	•	
2094-*	20	125	Brown, I, LA, W, BK, GRY, RED	Spec Grade 20 Amp Duplex	5-20R	•	•		
2084-*	20	125	I, LA, W, BK	Spec Grade 20 Amp Dead Front		•	(UL508/C22.2 No. 14)		
1594-HG*	15	125	Brown, I, LA, W, GRY, RED	Hospital Grade 15 Amp Duplex	5-15R	•	•	•	
2094-HG*	20	125	Brown, I, LA, W, GRY, RED	Hospital Grade 20 Amp Duplex	5-20R		•		
GFCI with Auto-Ground	Rece	ptacle	S			'	1		
1594-S*	15	125	I, LA, W	Spec Grade 15 Amp Duplex	5-15R	•	•	•	
2094-S*	20	125	I, LA, W	Spec Grade 20 Amp Duplex	5-20R		•		
Decorator Combination	Swite	ch/GFC	I Receptacles			'			
1594-SWT*CC5 Switch: GFCI:	15 15	120 125	I, LA, W, BK	Spec Grade 15 Amp Single Pole Switch	5-15R	•	•		•
1594-2SWT*CC5 2 Switches: GFCI:	15 15	120 125	I, LA, W, BK	Spec Grade 15 Amp Two Single Pole Switches	5-15R	•	•		•
Decorator Combination	Nigh	tlight/	GFCI Receptacles			,			
1594-NTL*CC6	15	125	I, LA, W, BK	Spec Grade 15 Amp	5-15R	•	•		
2094-NTL*	20	125	I, LA, W, GRY, RED	Spec Grade 20 Amp	5-20R	•	•		
1594-HGNTL*	15	125	Brown, I, LA, W, GRY, RED	Hospital Grade 15 Amp	5-15R	•	•		
2094-HGNTL*	20	125	Brown, I, LA, W, GRY, RED	Hospital Grade 20 Amp	5-20R	•	•		
Tamper-Resistant GFCI	Rece	ptacle	S			,	'		
1594-TR*CC6	15	125	I, LA, W, BK	Spec Grade 15 Amp Duplex	5-15R	•	•		
1594-HGTR*	15	125	Brown, I, LA, W, GRY, RED	Hospital Grade 15 Amp Duplex	5-15R		•		
2094-TR*CC6	20	125	Brown, I, LA, W, GRY, RED, BK	Spec Grade 20 Amp Duplex	5-20R		•		
2094-HGTR*	20	125	Brown, I, LA, W, GRY, RED	Hospital Grade 20 Amp Duplex	5-20R		•		
Illuminated GFCI Recept	acle	s Light	is on when power is available						
1594-*L	15	125	Brown, I, LA, W	Spec Grade 15 Amp Duplex	5-15R	•	•	•	
2094-*L	20	125	Brown, I, LA, W, GRY	Spec Grade 20 Amp Duplex	5-20R		•		
1594-HG*L	15	125	Brown, I, LA, W, GRY, RED	Hospital Grade 15 Amp Duplex	5-15R		•	•	
2094-HG*L	20	125	Brown, I, LA, W, GRY, RED	Hospital Grade 20 Amp Duplex	5-20R	•	•		

* Color Designation

White W Brown Ivory GRY Gray Light Almond RED Red LA BK Black

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1594-NTLWCC6

The first LED Nightlight/GFCI

Combination — perfect for bathrooms.

- Sealed nightlight with Lexan® lens prevents tampering
- LED illumination with a 20-year life expectancy means no bulbs to change
- Photocell turns nightlight on in dark, off in daylight

The first Switch/GFCI Combination

Devices — ideal for remodeling.

- User-preferred, up-and-down switching
- Available in one- and two-switch models
- More function in a single-gang box or space
- 15A single-pole switches rated for 1/2 HP motor loads — perfect for bath and kitchen vent fans or garbage disposals



1594-2SWTWCC5



1594-SWTWCC5

Product Information



2094-SW

The **Auto-Ground GFCI** speeds commercial-building installation.

- Rugged, specification grade design fights callbacks and ensures durability
- Standard auto-ground clip ensures solid ground connection to metal box

Illuminated GFCI makes spotting use of back-up power easy.

- Green light on when power is available
- Green light turns off when unit has tripped or power has failed



2094-HGWL



1594-TRWCC6

The first **Tamper-Resistant GFCI** helps keep children safe.

- Patented internal sliding shutters prevent children from sticking objects into the receptacle
- UL Listed shutter system

Installing and Testing a GFCI Receptacle

15A 120V 60Hz 20A 120V 60Hz

Please read this leaflet completely before getting started.

▲ CAUTION

- To prevent severe shock or electro cution, always turn the power OFF at the service panel before working with wiring. Use this GFCI receptacle with copper or copper-clad wire. Do not use it with aluminum wire.
- Do not install this GFCI receptacle on a circuit that powers life suppo equipment because if the GFCI trips, it will shut down the
- For installation in wet locations, protect the GFCI receptacle with a weatherproof cover that will keep both the receptacle and any plugs dry.
- Must be installed in accordance with national and local electrical codes.

1. What is a GFCI?

A GFCI receptacle is different from conventional receptacles. In the event of a ground fault, a GFCI will trip and quickly stop the flow of electricity to prevent serious injury.

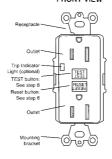
Definition of a ground fault: Instead of following its normal safe path, electricity passes through a per-son's body to reach the ground. For example, a defective appliance can cause a ground fault.

can cause a ground ratur.

A GFCI receptacle does not protect against circuit overloads, short circuits, or shocks. For example, you can still be shocked if you touch bare wires while standing on a non-conducting surface such as a wood floor.

2. The GFCl's features

FRONT VIEW



BACK VIEW @~~ 0 921 4 AD -LOAD-- LOAD LOAD Hot terminal (Brass): Connection for the LOAD cable's black wire

3. Should you install it? 4. LINE vs. LOAD

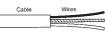
Installing a GFCI receptacle can be more complicated than installing a conventional receptacle.

Make sure that you:

- · Understand basic wiring principles and techniques.
- · Have circuit wiring experience
- Are prepared to take a few minutes to test your work, making sure that you have wired the GFCI receptacle correctly.

If you do not fully understand these instructions, you should seek the assistance of a qualified electrician

A cable consists of 2 or 3 wires.



LINE cable:

LINE cable:
Delivers power from the service panel (breaker panel or fuse box) to the GFCI. If there is only one cable entering the electrical box, it is the LINE cable. This cable should be connected to the GFCI's LINE terminals only.

Do to the Cross Erric Lemminas only.

LOAD cable:

Delivers power from the GFCI to another receptacle/outlet in the circuit This cable should be connected to the GFCI's LOAD terminals only. The LOAD terminals are under the yellow sticker. Do not remove the sticker at this time.

5. Turn the power OFF

Plug an electrical device, such as a lamp or radio, into the receptacle on which you are working. Turn the lamp or radio on. Then, go to the service panel. Find the breaker or fuse that protects that receptacle. Place the breaker in the OFF position or completely remove the fuse. The lamp or radio should turn OFF.



Next, plug in and turn ON the lamp or radio at the receptacle's other outlet to make sure the power is OFF at both outlets. If the power is not OFF, stop work and call an electrician to com-

6. Identify cables/wires

IMPORTANT:

Do not install the GFCI receptacle in an electrical box containing (a) more than 4 wires (not including the ground wires) or (b) cables with more than two wires (not including the ground wire). Contact a qualified electrician if either (a) or (b) is true

- If you are replacing an old receptacle, pull it out of the electrical box without disconnecting the wires.
- If you see one cable (2-3 wires), it is the LINE cable. The receptacle is probably in position C (see diagram to the right). Remove the receptacle and go to step 7A.
- If you see two cables (4-6 wires), the receptacle is probably in position A B (see diagram to the right). Follow steps are of the procedure to the right.

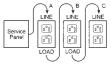
Procedure: box with two cables (4-6 wires)

- (a) Detach one cable's white and hot wires from the receptacle and cap each one separately with a wire connector. Make sure that they are from the same cable.
- (b) Reinstall the receptacle in the electrical box, attach the wall plate then turn the power ON at the service panel.
- Determine if power is flowing to the receptacle. If so, the capped wires are the LOAD wires. If not, the capped wires are the LINE wires.
- (d) Turn the power OFF at the service panel, label the LINE and LOAD vires, then remove the receptacle

Placement in circuit:

The GFCl's place in the circuit determines if it protects other receptacles/outlets in the circuit

Sample circuit:

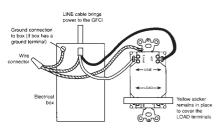


Placing the GFCI in position A will also provide protection to "load side" receptacles/outlets B and C. On the other hand, placing the GFCI in posi-tion C will not provide protection to receptacles/outlets A or B. Rem that receptacles/outlets A, B, and C can be in different rooms.

7. Connect the wires (choose A or B)...only after reading other side completely

A: One cable (2 or 3 wires) entering the box

B: Two cables (4 or 6 wires) entering the box



Wire Side Wire Connect the LINE cable wires to the LINE terminals.

white wire connects to the White terminal (Silver) The black wire connects to the Hot terminal (Brass)

- Connect the ground wire (only if there is a ground wire): For a box with no ground terminal (diagram not shown): Connect the LINE cable's bare copper (or green) wire directly to the ground terminal on the GFCI
- receptacle.

 For a box with a ground terminal (diagram shown above): Connect a 6-inch bare copper (or green) 12 or 14 AWG wire to the ground terminal on the GFCI. Also connect a similar wire to the ground terminal on the box. Connect the ends of these wires to the LINE cable's bare copper (or green) wire using a wire connector. If these wires are already in place, check the connections.

 Complete the installation:
- Fold the wires into the box, keeping the ground wire away from the White and Hot terminals. Screw the receptacle to the box and attach the wall plate.
- . Go to step 8.

About wire connections

LINE cable brings 娘:钡 0 0 0 0 Back Wire Back Wire

Connect the LINE cable wires to the LINE terminals

- The white wire connects to the White terminal (Silver)
 The black wire connects to the Hot terminal (Brass)
- Connect the LOAD cable wires to the LOAD terminals:
- Remove the yellow sticker to reveal the LOAD terminals
- . The white wire connects to the White terminal (Silver) · The back wire connects to the Hot terminal (Brass)
- Connect the ground wires as shown above (only if there is a ground wire):
- Connect the ground wires as shown above (only if there is a ground wire):

 Connect a 6-inch bare copper (or green) 12 or 14 AWG wire to the ground terminal on the GFCI. If the box has a ground terminal, also connect a similar wire to the ground terminal on the box. Connect the ends of these wires to the LINE and LOAD cable's bare copper (or green) wire using a wire connector. If these wires are already in place, check the connections.

Complete the installation:

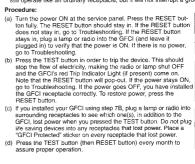
- Fold the wires into the box, keeping the ground wire away from the White and Hot terminals. Screw the receptacle to the box and attach the wall plate.
- Go to step 8

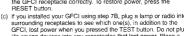
8. Test your work

Why perform this test?

- . If you miswired the GFCI, it may not prevent personal injury or death due to a ound fault (electrical shock).
- If you mistakenly connect the LINE wires to the LOAD terminals, the GFCI will still operate like an ordinary receptacle, but it will not interrupt a ground fault.

Procedure:







n n



TROUBLESHOOTING

Turn the power OFF and check the wire connections against the appropriate wiring diagram in step 7A or 7B. Make sure that there are no loose wires or loose connections. Also, it is possible that you reversed the LINE and LOAD connections. LINE/LOAD reversal will be indicated by power remaining ON at the GFCI and by the RESET button not staying in when pressed. Reverse the LINE and LOAD connections if necessary. Start the test from the beginning of step 8 if you rewired any connections to the GFCI.

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