

LEW ELECTRIC FITTINGS COMPANY

2023 NEC CODE AND UL498



PUFP-CT-SS-PB



PUFP-CT-B-PB



PUFP-CT-BK-AC-PB

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Pop Up Receptacles for Countertops:

Understanding 2023 NEC code changes and UL498 explained.

Question 1: *What are the changes to the NEC CODE for 2023?*

First, there have been no changes in 2023 to the way Pop Up Receptacles for countertops are tested or how they meet compliance. The changes to the NEC code have to do with what types of power you can install on/in an island. Pop Up Receptacles have a role in this, but no changes have been made to the 2023 NEC wording that alters what types are approved or not. The new NEC wording reads the following.

No receptacle outlet is required to be installed within islands or peninsulas based on the 2023 NEC—with a caveat. The revisions to 210.52(C)(2) in the 2023 NEC essentially changed island and peninsula receptacles to have two requirements (paraphrased):

1. Receptacle outlets in islands and peninsulas, if installed, must be done in accordance with 210.52(C)(3).
2. If a receptacle outlet is not provided for islands and peninsulas, provisions must be made for the addition of a receptacle outlet in the future.*

Section 210.52(C)(3) has also been revised for the 2023 NEC, essentially to provide the following three options for where island and peninsula receptacle outlets can be installed (paraphrased):

1. On or above countertop or work surfaces, but no more than 20 inches above.
2. In a countertop using a receptacle outlet assembly listed for use in countertops.
3. In a work surface using a receptacle outlet assembly listed for use in work surfaces or listed for use in countertops.

**** As stated above, receptacles are NO LONGER PERMITTED to be installed in the side of an island/peninsula.**

Question 2: *What is UL 498 and how does it apply to the 2023 NEC CODE?*

UL 498 is the Standard for Safety of Attachment Plugs and Receptacles. Within UL 498 is a provision for “Pop-Up Receptacles”. To gain the UL 498 approval for Pop-Up Receptacles, the following conditions must be met.

1. The Pop Up Receptacle must be hardwired and fixed to a non-moveable structure.
2. The Pop Up Receptacle must pass all applicable endurance, mechanical loading, dielectric voltage withstand, temperature and spill tests.
3. To simulate the spill test in a kitchen or bathroom a container holding one half gallon (64 oz) of saline solution is tipped over with the spill directed toward the most disadvantageous part of the assembly. A dielectric withstand test is conducted immediately after the spill. The Pop up receptacle must pass this dielectric withstand test to be listed as UL498.
4. In addition to all the above requirements, if there is a GFCI receptacle used in the “Pop-Up” receptacle, the “Pop-UP” assembly must comply with the requirements set forth in ANSI/UL 943 Standard for Safety of Ground-Fault Circuit Interrupters.

Question 3: *Do the LEW ELECTRIC Pop-Up receptacles meet THE NEW 2023 NEC CODE AND COMPLY WITH UL 498 for Pop-Up Receptacles?*

YES! All of LEW Electric’s PUFP-CT-PB series boxes (NON-CORDED) meet the 2023 NEC CODE and are ETL listed under standard UL498 for use in countertops. Additionally, all new PUR2 models (available second quarter of 2024) will be compliant as well.