

Mini Breadboard – 170 Tie Points (Random Color)

The **Mini Breadboard – 170 Tie Points (Random Color)** is an essential prototyping tool for electronics enthusiasts, hobbyists, engineers, and students who want to design and test circuits quickly and easily. Unlike traditional soldering methods, this breadboard allows you to build and modify electronic circuits without permanent connections, making it an excellent choice for beginners and professionals alike. Its compact size, random color variety, and durable construction make it a must-have accessory in any electronics toolkit.



Compact Size for Portable Projects

The **170 tie-point mini breadboard** is designed with portability in mind. Measuring only a few centimeters in size, it is small enough to fit in your pocket or easily integrate into tight project spaces. Despite its compact form, it provides just the right number of tie points for small projects, testing individual sensors, or working on basic Arduino and Raspberry Pi circuits. It's

perfect for classroom use, workshops, and DIY hobby projects where space is limited but flexibility is required.

Easy to Use – No Soldering Required

One of the biggest advantages of the **Mini Breadboard 170 tie points** is its solderless design. This feature makes it highly reusable and convenient for experimenting. You can insert and remove electronic components such as resistors, capacitors, LEDs, sensors, and jumper wires without damaging them. Beginners especially benefit from this design since it allows them to make mistakes, correct wiring, and try out new ideas without fear of wasting components.

Adhesive Backing and Expandable Design

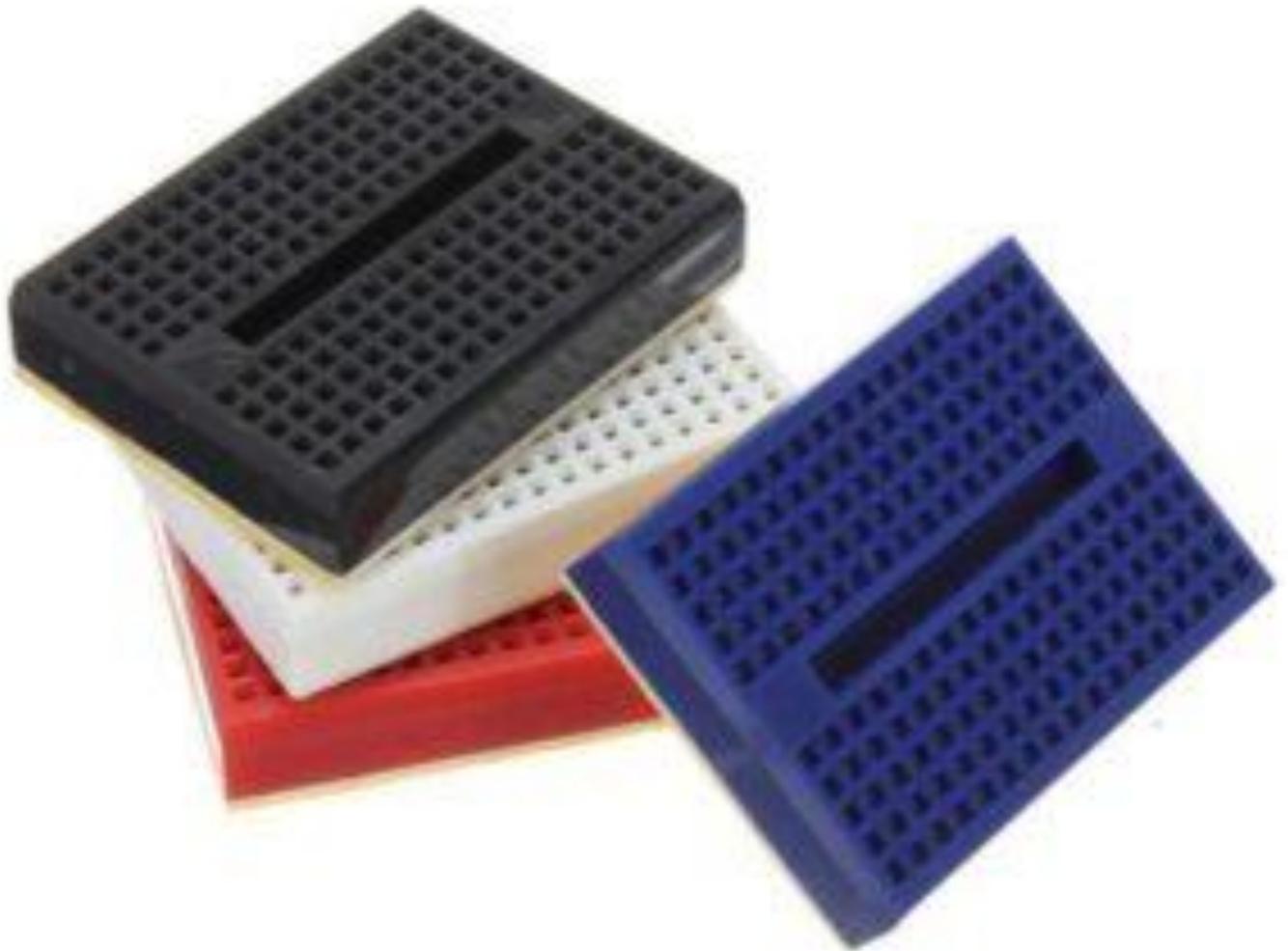
This breadboard includes a **self-adhesive backing** that allows you to mount it on flat surfaces, enclosures, or robotic chassis. This makes it convenient for building permanent or semi-permanent test setups. Additionally, the breadboard features an **interlocking system**, meaning multiple mini breadboards can be connected together to create a larger prototyping area. This flexibility makes it scalable for projects that may grow in complexity over time.

Random Color Options

Each **Mini Breadboard – 170 Tie Points** comes in a **random color**, which could include white, red, blue, black, or green. While the color does not affect performance, it adds personality and variation to your electronic projects. Many users enjoy the surprise of receiving different colors for their collection.

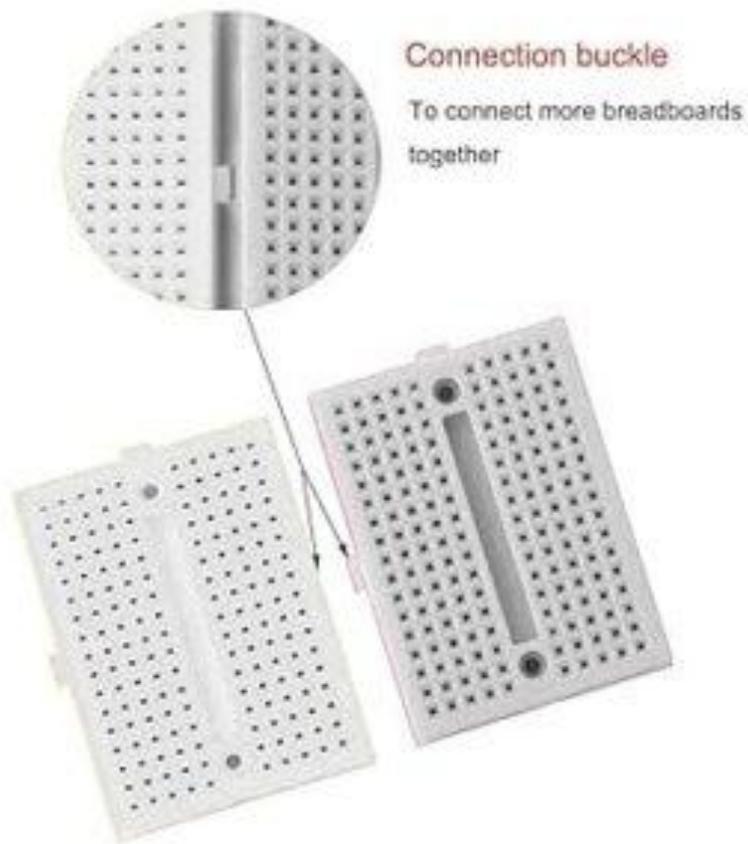
Wide Compatibility with Arduino and Raspberry Pi

The **Mini Breadboard 170 tie points** is fully compatible with **Arduino boards, Raspberry Pi, ESP32, ESP8266, microcontrollers, and other development platforms**. Whether you are building a simple LED flasher, sensor interface, or a more complex IoT prototype, this breadboard allows you to easily connect jumper wires and modules for rapid circuit testing.



Durable and Reliable Connections

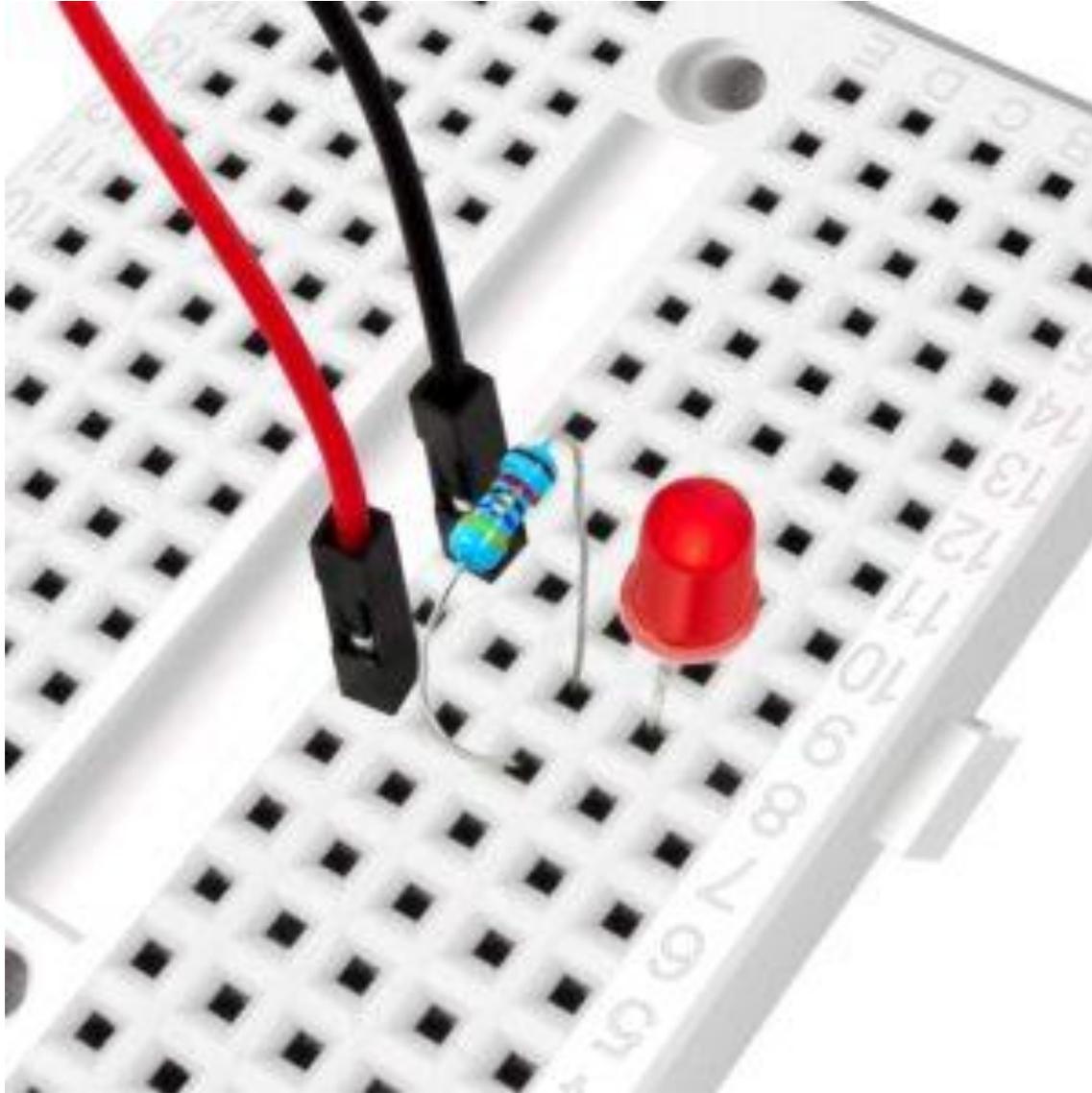
Constructed from high-quality ABS plastic with **phosphor bronze nickel-plated contacts**, this breadboard ensures a secure and stable grip for components and jumper wires. It can withstand repeated insertions and removals without losing connectivity, making it ideal for continuous prototyping and long-term educational use.



Applications of Mini Breadboard – 170 Tie Points

This breadboard is versatile and suitable for a wide variety of uses, including:

- **Educational Learning:** Teaching students the basics of circuit design and electronics.
- **DIY Electronics Projects:** Building LED blinkers, motor controllers, and small sensor-based projects.
- **Prototyping Circuits:** Testing ideas before committing to soldered PCBs.
- **IoT Projects:** Connecting sensors and modules with microcontrollers such as Arduino or ESP32.
- **Robotics:** Mounting on small robotic chassis for wiring motors, sensors, and controllers.



Technical Specifications

- **Model:** Mini Breadboard – 170 Tie Points
- **Tie Points:** 170
- **Material:** ABS plastic with phosphor bronze contacts
- **Size:** Approx. 47mm × 35mm × 9mm
- **Design:** Interlocking, expandable system
- **Adhesive Backing:** Yes
- **Colors Available:** Random (white, red, black, blue, green, etc.)
- **Compatibility:** Arduino, Raspberry Pi, ESP32, ESP8266, microcontrollers, sensors, and modules

Why Choose Mini Breadboard – 170 Tie Points?

The **Mini Breadboard – 170 Tie Points (Random Color)** is an affordable and reliable solution for electronics prototyping. Its compact size makes it ideal for small projects, while its solderless design encourages experimentation and creativity. With reusable tie points, strong construction, and wide compatibility with development boards, this breadboard is a valuable addition to any maker's collection.

Conclusion

If you are looking for a practical and cost-effective prototyping tool, the **Mini Breadboard – 170 Tie Points** is the perfect choice. From students learning basic circuits to engineers testing advanced designs, this breadboard provides the flexibility and durability required for continuous innovation. Add it to your electronics kit today and start building smarter, faster, and more efficiently.