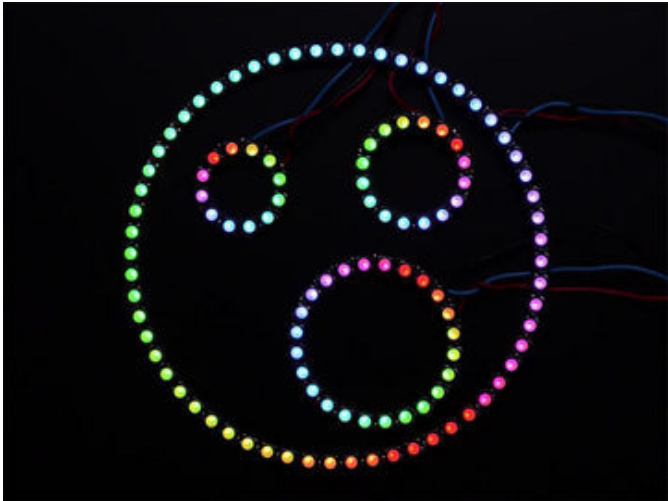


NeoPixel Rings

NeoPixel rings are circular rigid printed circuit boards festooned with NeoPixel LEDs. Originally designed for our [NeoPixel Goggles kit](#), they proved so popular with other projects...timepieces, GPS wayfinders, jewelry, etc...that we now offer several sizes and varieties...

Rather than list a zillion different links, we have a single landing page for selecting among all the different NeoPixel ring products:

NeoPixel Ring Product Selector



NeoPixel rings are offered in **12**, **16**, **24** and **60** pixel varieties.



60-pixel rings are actually sold as **15**-pixel *quarters*. For a **full circle**, you'll need to purchase **4** and **solder** them together. Or you might find creative ideas for individual arcs!

Number of Pixels	Outer Diameter	Inner Diameter
12	37 mm / 1.5"	23 mm / 1"
16	44.5 mm / 1.75"	31.75 mm / 1.25"
24	66 mm / 2.6"	52.5 mm / 2.05"
60 (4x 15-pixel arcs)	158 mm / 6.2"	145 mm / 5.7"

All rings are about 3.6 millimeters / 0.15" thick (1.6 mm for PCB, 2 mm for NeoPixels).



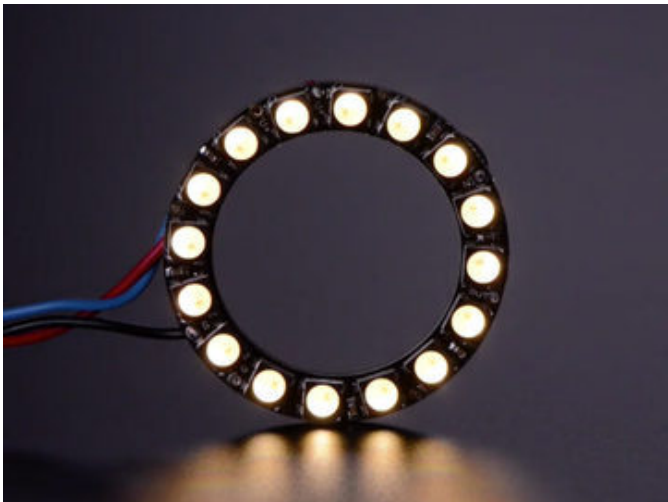
RGB NeoPixels are the most affordable and can produce *millions* of color combinations.

RGBW NeoPixels offer an eye-pleasing “true” white *in addition* to RGB. These are available in three different color temperatures:

- **Cool white:** approximately **6000** Kelvin (K).
- **Neutral:** approx **4500K**.
- **Warm white:** approx. **3000K**.

RGBW pixels incorporate a translucent **diffuser** layer to help mix and soften the light output. This makes them appear less intense than RGB pixels (which are “water clear”), but it’s really the same LEDs inside.





Finer Details About NeoPixel Rings

- When soldering wires to these rings, you need to be extra vigilant about solder blobs and short circuits. The spacing between components is *very* tight! It's often easiest to **insert the wire from the front and solder on the back**.
- If using alligator clips, we recommend first soldering short jumper wires to the ring inputs and connecting the clips to those, for similar reasons. *(Some of our tutorials and product photos do show alligator clips directly connected to the rings, but we've had a lot of experience using them.)*