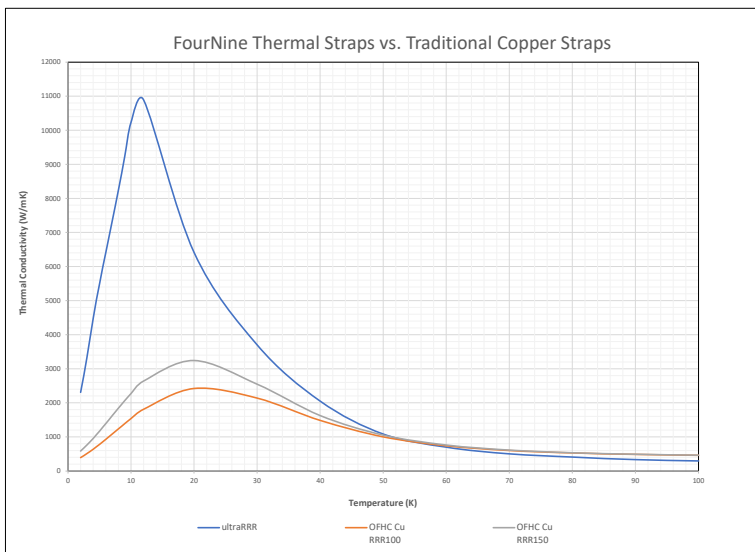


## ultRRRaSTRAPS

Cryogenic systems often rely on specialized flexible copper straps to conduct heat from the experiment area to the cryocooler to cool their sample. The efficiency of this cooling connection and the conductive and radiation design of the rest of the experiment determine the ultimate success in achieving low base temperatures. These conductive links must also be mechanically compliant to avoid transferring vibrations into the sample area from the mechanical cryocoolers.



Four Nine Design has engineered a highly flexible material to optimally conduct heat at low temperatures. This material can be manufactured to various lengths and widths and can be applied in parallel to achieve even higher conductivity.



The graph (left) shows the comparison of this material to conventional OFHC straps or ropes. For all temperatures below 50K, the ultRRRaSTRAPS have significantly higher performance. Contact Four Nine Design to discuss how this material can reduce both your sample temperatures and vibrations.

## ABOUT US

Four Nine Design makes robust cryogenic products to accelerate research and scientific achievement in the emerging quantum market. We can customize these solutions to meet unique requirements of our users. Our mission is to use our skills, resources, and capabilities to have a positive impact on the world.