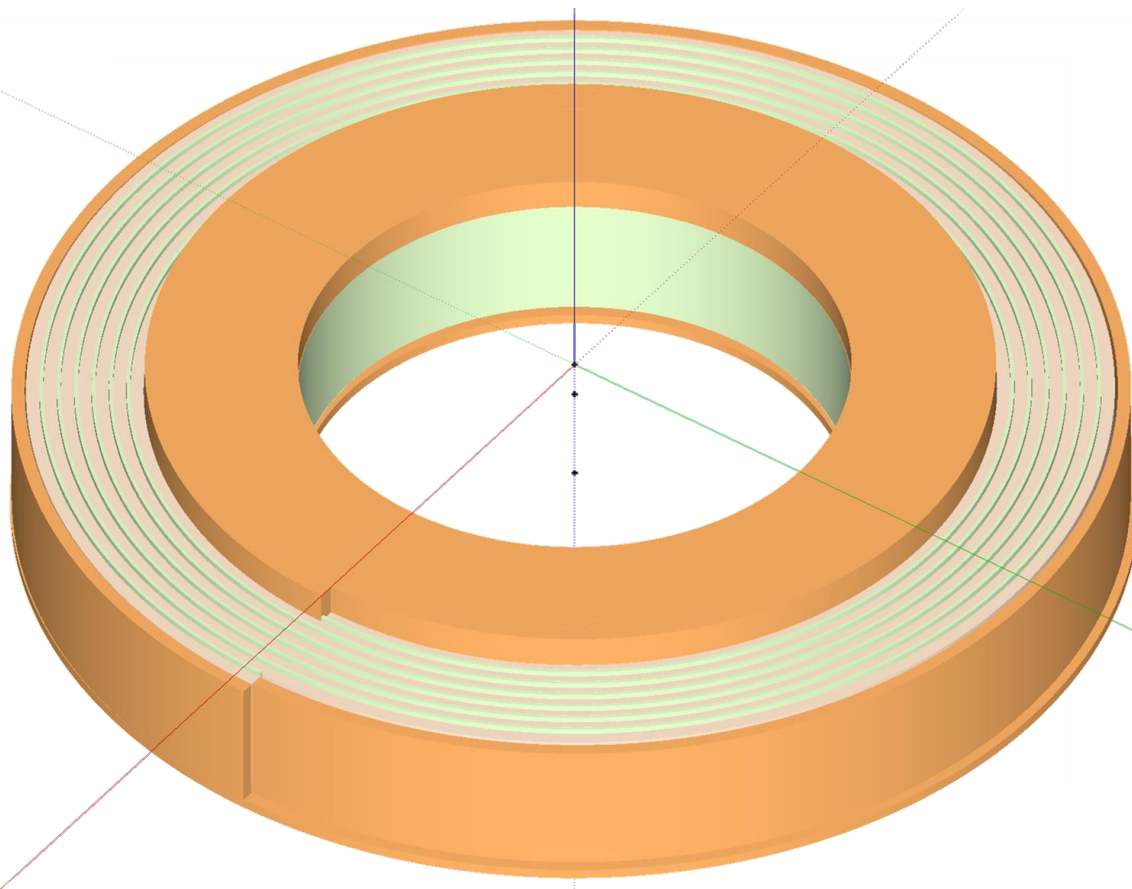


Roebel Pancake Coil for Quench Measurements

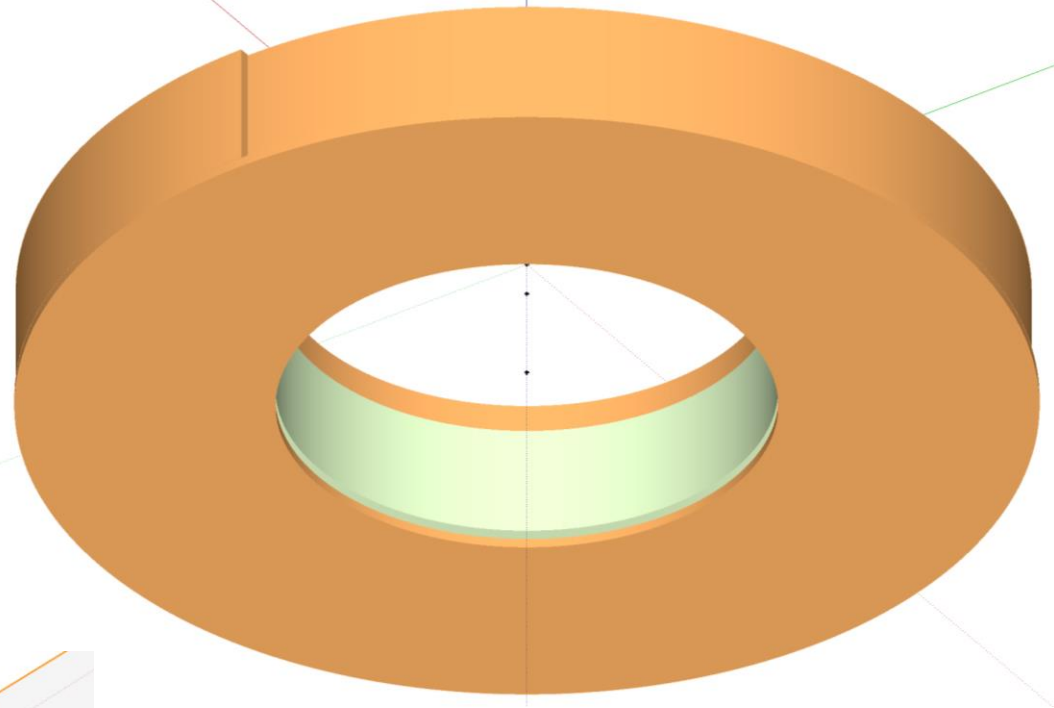
1. Taking on board questions on the suitability/relevance of quench measurement on a u-bend cable.
2. Noting the cable is about 1.4m long, allowing ~1m length after current contacts of 1 pitch length of 0.2m.
3. Sufficient for 6-7 turn coil: more relevant for EUCARD2, better mechanical stability with impregnation.
4. So we propose:

Roebel Pancake Coil for Quench Measurements



1. G10 former with inner current injection terminal
2. Inner current contact to a whole turn, CNC machined to fit cable thickness
3. Soldering cable to contact and then start winding with fibre-glass insulation tape
4. Instrumentation/Heater attached during winding
5. Solder the outer contact to a whole turn
6. Attached outer terminal at the same time
7. Epoxy impregnation

Outer current terminal on the reverse side



Cross-section of the winding structure and current contacts

