**Test Superconducting Wire at CERN**

* Ic critical current
	+ at 3T, 4.5 K and 1.9K
* RRR
* cross section, to look at filaments
* electrical insulation (breakdown voltage)

**Test Superconducting Cable at Uppsala & Scanditronix**

* measure diameter
	+ 3x 0.36 mm = 1.08 to 1.09 mm diameter
* check bending,
	+ measure approximate bending radius
	+ does it come apart?
* make some photos
	+ close-up look with microscope
* measure HV insulation between strands
	+ ramp-up to breakdown voltage
	+ (put in water bucket, then measure b/w strand and water)
	+ strand to strand insulation

**Test Impregnation at Scanditronix**

**NOTE: Quality Control documentation**

**NOTE: Adapt lengths to available cable**

* dummy winding channels
	+ approximately 5 to 10 cm length, few channels next to each other, 0.3 mm barrier
	+ 2.5\*6.25 mm2 (width x height) -> 10 cables inside channel
	+ with cover, Kapton sheet, glass sheet (as in the real magnet)
* optional, small CCT with 1-2 turns
	+ 1 channel
* cable to stick out by few cm
	+ measure HV insulation between strands
* impregnation
	+ resin options:
		- as standard used by Scanditronix (MY750 ?)
		- (paraffin wax)
	+ without and with mold release
* after impregnation
	+ measure HV insulation between strands
	+ thermal shock
		- 10x: dip in liquid nitrogen for a minute to cool down, warm-up to room temperature
	+ measure HV insulation between strands
* destructive test
	+ cut and polish
	+ make photo of cross section
		- check positioning of the cables and strands
		- check for cracks in impregnation