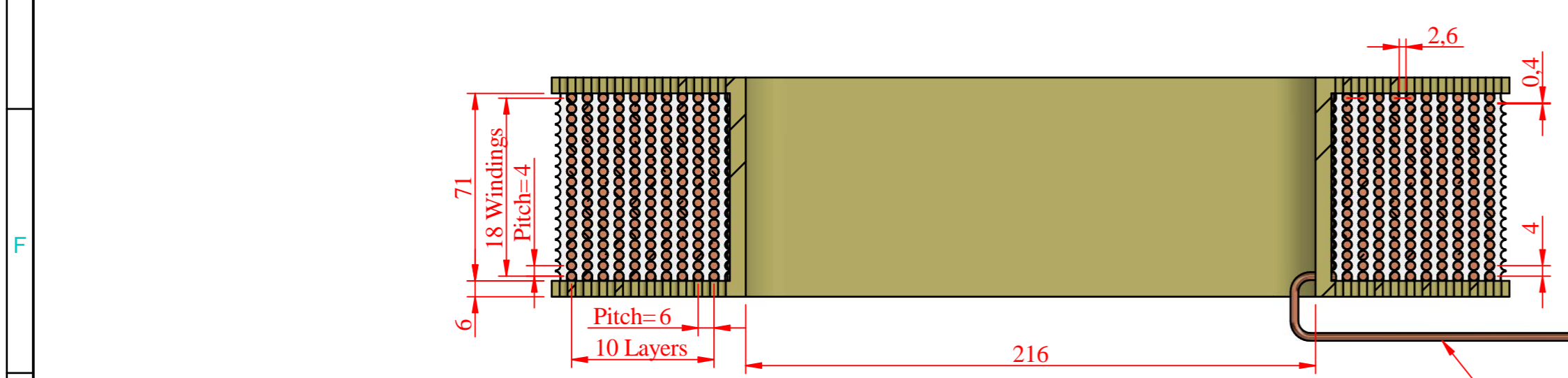
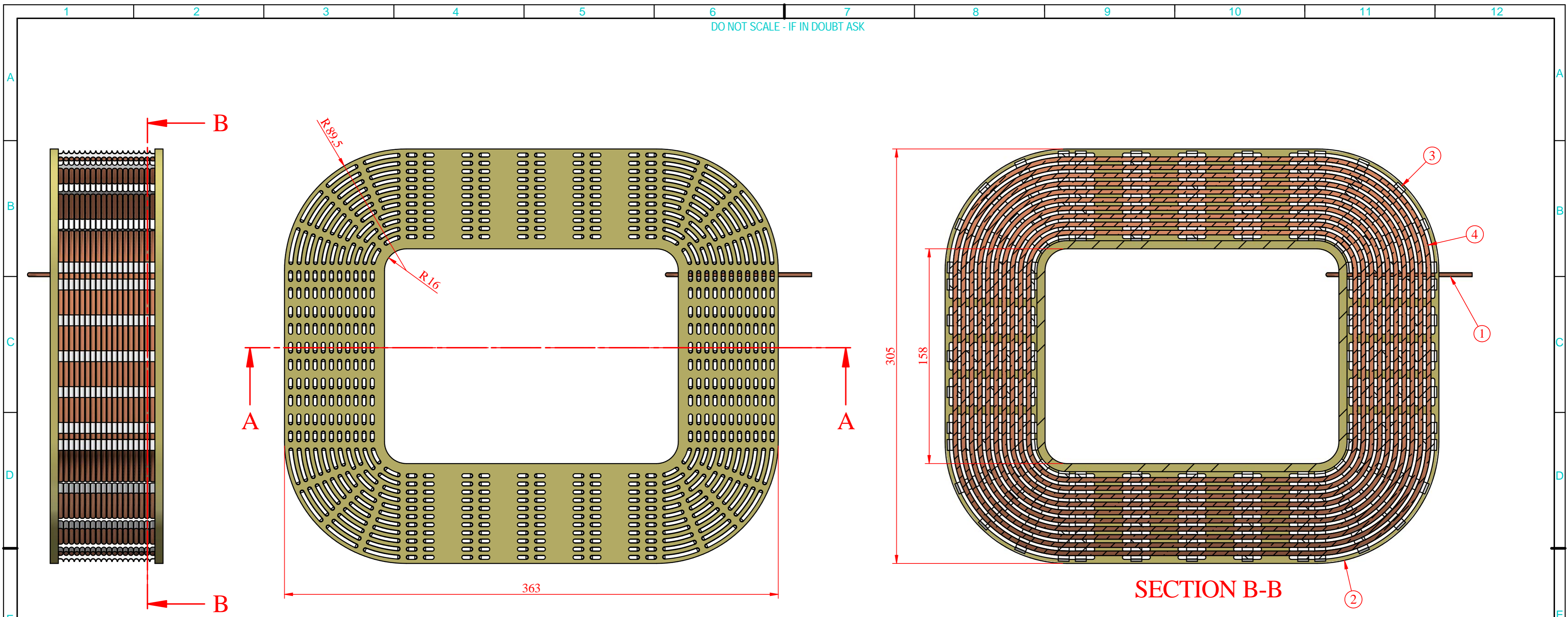
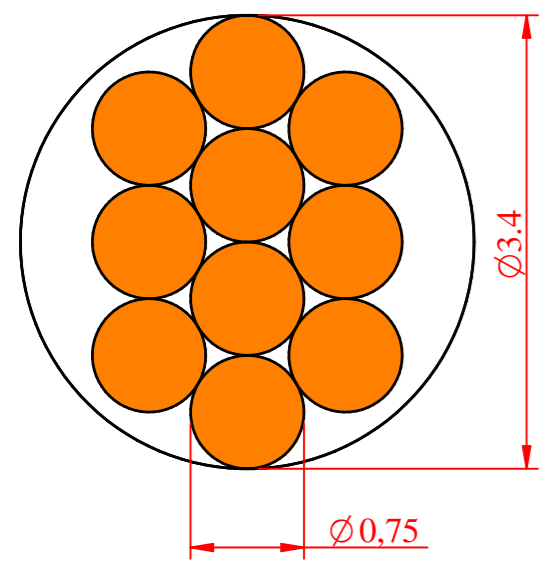


DO NOT SCALE - IF IN DOUBT ASK



NOTE:
 Coils are wound with Litz wire. Litz wire is made by twisting together 10 strands of enamel insulated \varnothing 0.75 mm copper wires in a 30 mm lead spiral.
 There are 18 windings per layer with a 0.4 mm thick insulating strip between each turn and there are 10 layers with 3 mm spacers in place between each layer to allow forced air circulation past the windings.
 There are a total of 180 turns per coil, with a length of ± 1 m per turn which add up to 180 m in total.

COPPER STRANDS EXAMPLE



SECTION A-A

ITEM	PART NUMBER	DESCRIPTION	MATERIAL	QTY
1	-	COIL START POINT	Copper	1
2	5558-6111-A	COIL FORMER	Nylon, general purpose	1
3	5558-6112-B	COIL SPACER	Nylon, general purpose	416
4	5558-6113-B	COIL \varnothing 3.4x10x18	Copper	18

<p>METRIC SYSTEM: mm</p> <p>THIRD ANGLE PROJECTION DRAWN TO SABS 0111</p>	<p>REMOVE ALL BURRS & SHARP EDGES</p> <p>UNSPECIFIED MACHINE SURFACES $\sqrt{3.2}$</p> <p>UNTOLERANCED DIMNS/ANGLES ISO 2768</p> <p>DIMENSIONS 0.5-6 ± 0.1 mm</p> <p>DIMENSIONS 6-30 ± 0.2 mm</p> <p>DIMENSIONS 30-120 ± 0.3 mm</p> <p>DIMENSIONS 120-315 ± 0.5 mm</p> <p>DIMENSIONS 315-1000 ± 0.8 mm</p> <p>ANGLES X $\pm 0.5^\circ$</p>	<p>DRAWN jibroodryk</p>	<p>National Research Foundation</p> <p>iThemba LABS Laboratory for Accelerator Based Sciences</p>
		<p>CHECKED</p>	
		<p>APPROVED</p>	
		<p>DATE 2021/11/02</p>	
		<p>SCALE 1:2</p>	
		<p>TREATMENT</p>	
		<p>SHEET 1 OF 1</p>	

<p>TITLE COIL ASSEMBLY</p>	
<p>MATERIAL</p>	<p>DRAWING No 5558-6110-B</p>
<p>A2</p>	