

4.1 Mechanical details

Power Transmitter design A2 includes a single Primary Coil as defined in [Section 4.1.1, Primary Coil](#), Shielding as defined in [Section 4.1.2, Shielding](#), an Interface Surface as defined in [Section 4.1.3, Interface Surface](#), and a positioning stage as defined in [Section 4.1.4, Positioning stage](#).

4.1.1 Primary Coil

The Primary Coil is of the wire-wound type, and consists of litz wire having 30 strands of 0.1 mm diameter, or equivalent. As shown in [Figure 3](#), the Primary Coil has a circular shape and consists of multiple layers. All layers are stacked with the same polarity. [Table 4](#) lists the dimensions of the Primary Coil.

Figure 3. Primary Coil of Power Transmitter design A2

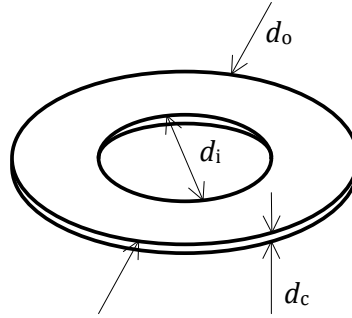


Table 4: Primary Coil parameters of Power Transmitter design A2

Parameter	Symbol	Value
Outer diameter	d_o	40^{+1} mm
Inner diameter	d_i	19^{+1} mm
Thickness	d_c	$2^{+0.2}$ mm
Number of turns per layer	N	10
Number of layers	—	2