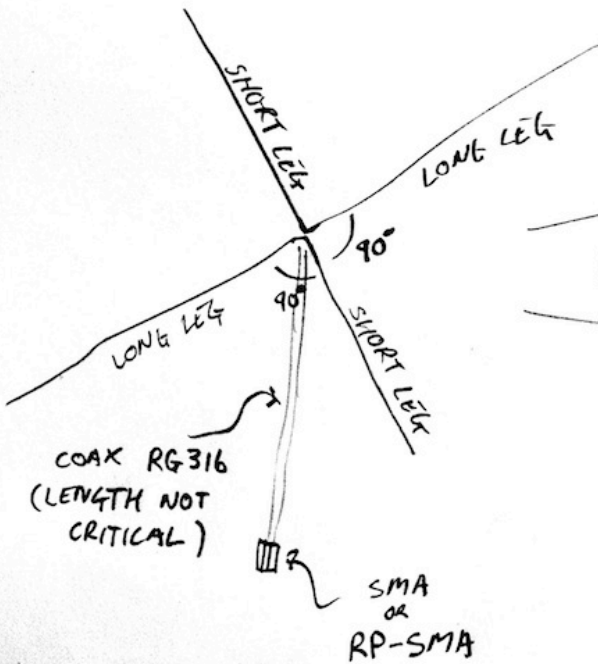
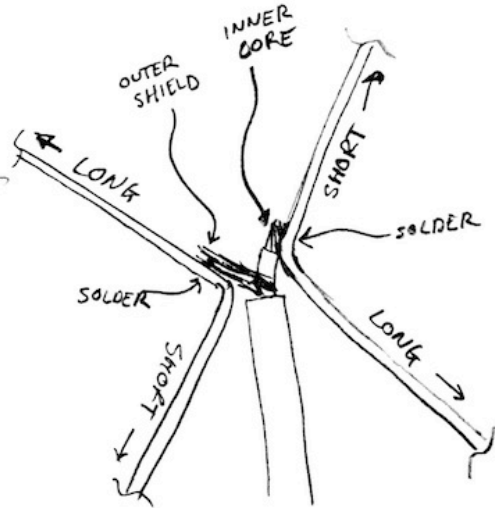


# DIY TURNSTILE ANTENNA

CHEAT SHEET  
by MARC GRIFFITH



DETAIL



WHICH WIRE  
TO USE?

COPPER COATED MIG WELDING WIRE:

CHEAP, STIFF, EASY TO SOLDER

0.035"  $\approx$  0.9mm

915MHz + BELOW

OR

CAT-5 ETHERNET CORE

24AWG, CHEAP, PAIN TO STRIP

OR WHAT EVER YOU  
CAN FIND + SOLDER

MHz	WIRE DIAMETER		SHORT LEGS		LONG LEGS	
	mm	AWG	mm	inches	mm	inches
425	0.88	18	151	5 <sup>5</sup> / <sub>16</sub>	172	6 <sup>49</sup> / <sub>64</sub>
433	0.88	18	150	5 <sup>29</sup> / <sub>32</sub>	170	6 <sup>11</sup> / <sub>16</sub>
435	0.88	18	149	5 <sup>55</sup> / <sub>64</sub>	169	6 <sup>21</sup> / <sub>32</sub>
440	0.88	18	146	5 <sup>3</sup> / <sub>4</sub>	166	6 <sup>17</sup> / <sub>32</sub>
459	0.88	18	136	5 <sup>23</sup> / <sub>64</sub>	158	6 <sup>7</sup> / <sub>32</sub>
915	0.50	24	70.4	2 <sup>49</sup> / <sub>64</sub>	80.1	3 <sup>5</sup> / <sub>32</sub>
1080	0.50	24	55.9	2 <sup>13</sup> / <sub>64</sub>	66.8	2 <sup>5</sup> / <sub>8</sub>
1180	0.5	24	49.6	1 <sup>61</sup> / <sub>64</sub>	60.8	2 <sup>25</sup> / <sub>64</sub>
1280	0.5	24	45.1	1 <sup>25</sup> / <sub>32</sub>	55.9	2 <sup>13</sup> / <sub>64</sub>