

DSA326 Coil Sizes

The following coils were used in DSA326:

1M-50-118

1M-50-121

1M-50-225

1M-50-226 (used back-wound cable from 1M-50-224)

The average coil sizes of 1M-50-118 and 1M-50-121 were 8.3 ± 1.3 and 7.4 ± 1.1 mils, respectively. These are about 1 to 2 mils smaller than the last set of inner coils wound and installed in DSA327. The average coil sizes of 1M-50-225 and 1M-50-226 were -2.7 ± 0.7 and -1.6 ± 1.1 mils, respectively. These are 5 to 6 mils smaller than the previous run of coils, however they are fairly close to the size of the outer coils being fabricated for the long magnets. Steve Delchamps and I have decided to ask Imery to put DSA326 together without any additional kapton shimming since it should tell us something about the performance of a magnet which has been built with prestress near the low end of the acceptable range. (The actual prestress should be monitored during keying in case it is too low.)

The I/III, II/IV asymmetry persists, with quadrant I/III slightly larger than II/IV. This difference is worst in the inner coils, where it is between 1 and 2 mils.

Distribution:

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