We have verified that a single film conductor has substantially no degradation in electrical performance after suffering a high temperature of about 200°C equivalent to the soldering process. Therefore, the influence of the fabrication on the conductor can be ignored for most purposes. Considering the effect of the magnetic field of the superconductor, we have found that the soldering process can be very effective, and the solder between the layers acts as a stabilizer and ensures a more uniform current distribution. A low n-value means that the conductor still has a relatively stable performance when it exceeds the critical current. The critical current of each layer in the YBCO soldered stacked conductor is reduced more uniform current distribution. A low n-value means that the conductor still has a relatively stable performance when it exceeds the critical current. The critical current of each layer in the YBCO soldered stacked conductor is reduced.

Electrical properties test and discussion

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