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Inductive Method for the Critical Current Measurements on the Aluminum stabilized cable

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An aluminium stabilized superconducting cable is developed for the Circular Electron Positron Collider(CEPC) detector magnet. In order to measure the critical current of the prototype cable, an inductive method is developed: the cable is closed in a low resistance loop forming the secondary coil of a transformer, while the 6 Tesla background magnet serves as the primary.
The critical current is measured for the prototype cables before and after co-extrusion to ensure that the degradation from this progress meet the design requirements.

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