

Article

Detecting Partial Discharge in Cable Joints Based on Implanting Optical Fiber Using MZ–Sagnac Interferometry

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Figure S1. Fiber tail lead-out diagram.

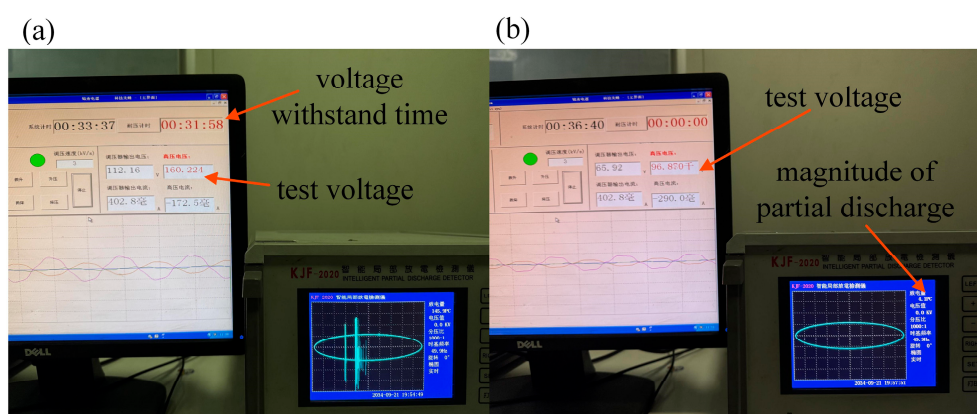


Figure S2. The results of the power frequency withstand voltage test and PD test.

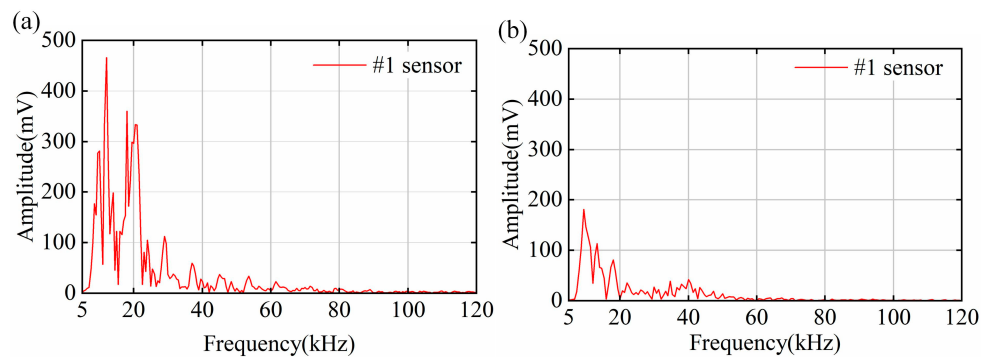


Figure S3. Frequency spectrum of single discharge in air gap measured by #1 sensor; (a) frequency spectrum of the first discharge;(b) frequency spectrum of the second discharge.

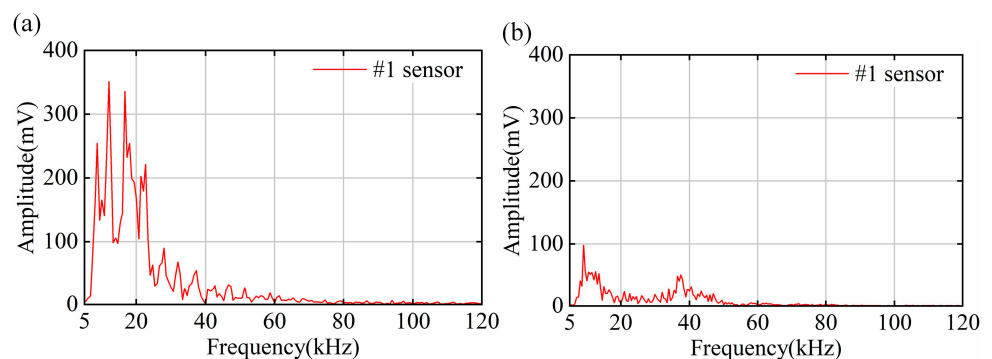


Figure S4. Frequency spectrum of single discharge due to joint misalignment measured by #1 sensor; (a) frequency spectrum of the first discharge;(b) frequency spectrum of subsequent discharge.

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Conflicts of Interest: Author Xiaowei Wu was employed by the company Shandong Taikai Cable Co., Ltd. The remaining authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.