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弹用导电丝束引弧机理及试验研究(PDF)

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Title: Arc Mechanism and Experimental Research of Conductive Fiber Used in Weapon

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关键词: 弹用导电丝束; 短路试验; 引弧机理; 自持放电

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摘要: 阐述了弹用导电丝束相间引弧发生、发展的物理过程、作用机理及其自持放电判据,给出了弹用导电丝束引弧性能优劣的影响因素与条件,通过高压、小容量条件下试验获得了几种改性碳基丝束和玻璃纤维丝束的引弧特性*U-d*曲线,为测试、评价弹用导电丝束引弧性能的优劣提供了一种有效、可靠及经济的方法。

Abstract: The causes of arc discharge, physical procedures of development, mechanisms of effect and self-contained discharge criteria caused by conductive fiber between high-voltage wires were discussed in this paper. The influencing factors of arc-discharge performance with conductive fiber used in ammunition was proposed. The arc peculiarity curve(*U-d*)of some kinds of improved fibers with carbon-based and fiberglass were obtained by experimental method. It provides an effective and economic method to evaluate the arc performance of conductive fiber used in weapon.

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