

Title: Halting the fuse discharge propagation using optical fiber microwires

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Source: Optics Express **Volume:** 20 **Issue:** 19 **Pages:** 21083-21088 **Published:** Sep 10 2012

Document Type: Article

Language: English

Abstract: We report and analyze the halting of the fuse effect propagation in optical fiber microwires. The increase of the mode field diameter in the tapered region decreases the optical intensity resulting in the extinction of the fuse effect. This fiber element presents a low insertion loss and can be introduced in the optical network in order to protect the active equipment from the damage caused by the fuse effect. (C) 2012 Optical Society of America

KeyWords Plus: Destruction; Damage

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Funding:

Funding Agency	Grant Number
Portuguese Scientific Program	
European Union	PTDC/EEA-TEL/72025/2006 PTDC/EEA-TEL/105254/2008
A. M. Rocha PhD grant	SFRH/BD/41773/2007
M. Niehus BPD grant	SFRH/BPD/45824/2008

Publisher: Optical Soc Amer

Publisher Address: 2010 Massachusetts Ave NW, Washington, DC 20036 USA

ISSN: 1094-4087

Citation: Rocha A M, Fernandes G, Domingues F, Niehus, M, Pinto A N, Facao M, André P S. Halting the fuse discharge propagation using optical fiber microwires. Optics Express. 2012; 19 (20): 21083-21088.