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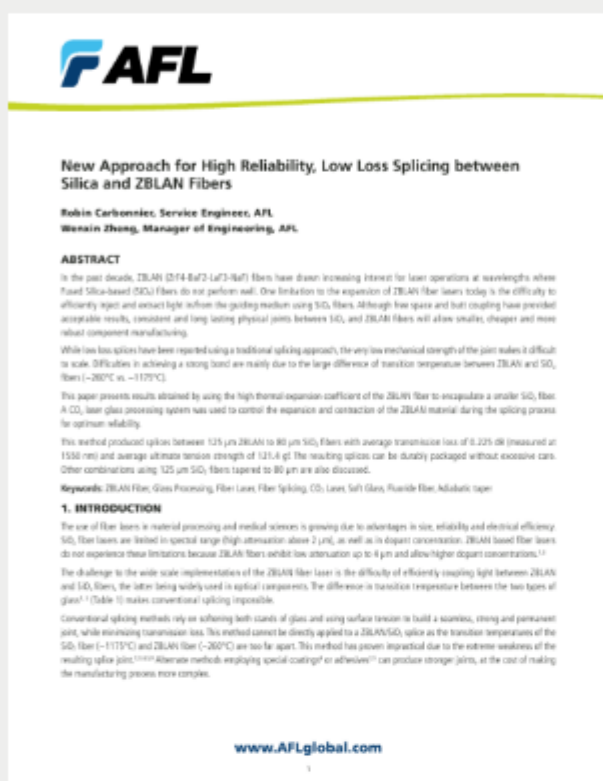


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## New Approach for High Reliability, Low Loss Splicing between Silica and ZBLAN Fibers

In the past decade, ZBLAN (ZrF<sub>4</sub>-BaF<sub>2</sub>-LaF<sub>3</sub>-NaF) fibers have drawn increasing interest for laser operations at wavelengths where Fused Silica-based (SiO<sub>2</sub>) fibers do not perform well. One limitation to the expansion of ZBLAN fiber lasers today is the difficulty to efficiently inject and extract light in/from the guiding medium using SiO<sub>2</sub> fibers. Although free space and butt coupling have provided acceptable results, consistent and long lasting physical joints between SiO<sub>2</sub> and ZBLAN fibers will allow smaller, cheaper and more robust component manufacturing.

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