

Re: Fiberscope Bending Damage Image

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- *From:* Helpful person <rrllff@xxxxxxxx>
 - *Date:* Mon, 19 Nov 2007 04:59:56 -0800 (PST)
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On Nov 17, 6:09 pm, Mu <musec...@xxxxxxxx> wrote:

Hi, What is the appearance in the image of a fiberscope, borescope or endoscope if there is a bending damage where the cable is bend tighter than the allowed bending radius. What are you supposed to see in the image? Has anyone looked thru one? Thanks.

Mu

The specification on bend radius limits is usually set to avoid fiber breakage. If you bend the fibers once there is probably not going to be too much damage. However, repeated bending builds up stress, eventually resulting in breakage of fibers.

Image dimming due to TIR being overcome depends on how close to the fiber's NA your imaging system is working. This can easily be determined through modeling, using an optical design program.

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