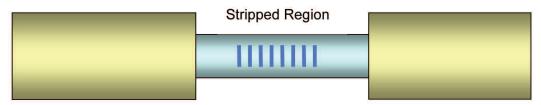
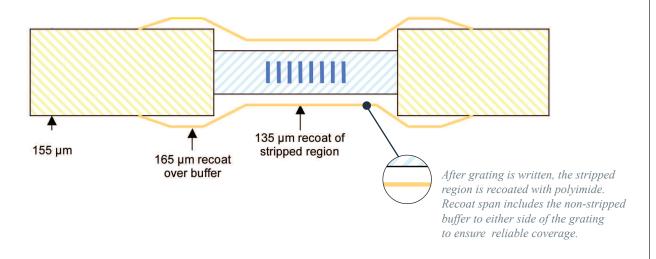
Bragg Gratings in Polyimide Coated Fiber

OFS PYROCOAT® polyimide coating enables the use of optical fibers in harsh environments. Polyimide is a heat-resistant polymer that performs to 300 °C and has high strength, abrasion- and chemical-resistance. Applied to a thickness of only 15 μ m, the result is a small form factor fiber of 155 μ m diameter.

OFS now offers fiber Bragg gratings in polyimide coated fiber. A grating is a selective wavelength filter in the core of an optical fiber that is used to measure strain or temperature. Extending our gratings technology to include polyimide coated fibers will benefit applications such as oil and gas sensing, structural sensing, industrial processing or avionics sensing.



In grating fabrication the coating is stripped so that Bragg grating exposure can occur





Custom Products

Fiber Bragg Gratings Worksheet



An online version of this worksheet is available at www.ofsoptics.com

Custom Grating Worksheet

Use this worksheet to specify a custom fiber Bragg grating or array. When you have made your specifications, please fax this worksheet to: (860) 674-8818. A representative will call to discuss your gratings requirements.

to discuss your gratings requirements. **Optical Parameters** Fiber type required Center Wavelength: nm with \pm tolerance of Bandwidth: nm with \pm tolerance of @ level: transmission _____dB Reflection ______dB % Reflectivity Value: _____ Minimum Average _____ Crosstalk requirements on reflection _____ dB @ _____ nm Maximum insertion loss per grating Maximum loss per array Measurement Wavelength ______ nm

Dimensional Parameters Length of grating _____ mm with ______ ± tolerance of _____ mm Maximum Recoat Outer Diameter _____ μm ____ with $\underline{\hspace{1cm}}$ ± tolerance of $\underline{\hspace{1cm}}$ μm Maximum Recoat Length _____ mm with ± tolerance of mm Positional Dimensions of Gratings and Tolerance: **Testing Parameters** and Packaging Requirements **Proof Test Level for Individual Gratings** ______ & Final Array _____ kpsi Test Data to be Provided: Marking Requirements: When you have made your specifications and completed your contact information below, please Fax this worksheet to: 1-860-674-8818 Company:

Phone:

Email: _____