

LATEST INNOVATION



THE MOST POWERFUL TECHNOLOGY

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A stacked fiber bundle (SFB) incorporates hydrogen-loaded, carbon-coated fibers that are highly resistant to solarization. These fibers are designed to maintain high transmission and durability when subjected to deep UV light, particularly from pulsed deep UV laser sources, over long durations. SFB technology is versatile and can be applied in various fields that require light transmission in deep UV spectral regions, such as medicine, quality control, UV curing, and process analysis.

GENERAL PROPERTIES

fill factor around 0.85

circular active areas possible

NA values 0.12 and 0.22

low transsmision, 75% as max

max operating temperature of bundle

for tip ~120°C

high absorption of miscoupled light

max operating power TBD

BENEFITS

optimized tansmission efficiency at DUV, especially

harmonics of Nd:YAG

de-speckling

solarization (photodarkening) resistance

harsh environment compatible

medium costs

APPLICATIONS

high power DUV light delivery systems semiconductors



