



Enabling
innovation through
illuminated **thinking.**



Collective determination.

As much as determination has been a driving force behind everything we have achieved, the same can be said for the people and companies who have chosen to work with us.

Nufern is a motivated team of dedicated professionals capable of “Front-to-Back” program execution. We pride ourselves on the personal service we provide and the enthusiasm we bring to a customer’s program. Our passion is infectious. Our knowledge is complementary. And our commitment to producing the finest optical fibers available is unmatched.

Few manufacturers of fiber-based components and devices find it practical to incorporate the handling and processing of optical fiber into their manufacturing process. They may choose to partner with Nufern. We have the experience, resources, and facilities required to design, draw, process, manufacture, test and qualify everything from bare fiber to fiber intensive optical sub-assemblies.

State-of-the-art facilities operate around the clock to ensure prompt and qualified delivery.



Our unique approach to fiber and sub-assembly development — from initial technical and design consultation to final delivery — enables our customers to develop new technologies and bring products to market without losing sight of their core competencies.

Complementary capabilities.

Whether it's the delivery of standard spooled fiber or the development of a custom fiber or a custom sub-assembly, you can be assured that you will receive the highest levels of support, product quality, and attention to detail. Because we service a diverse range of industries, our customers benefit from our knowledge, experience, and skill sets. A solution from a seemingly unrelated industry or product may lead to the development of a new and innovative approach for you.

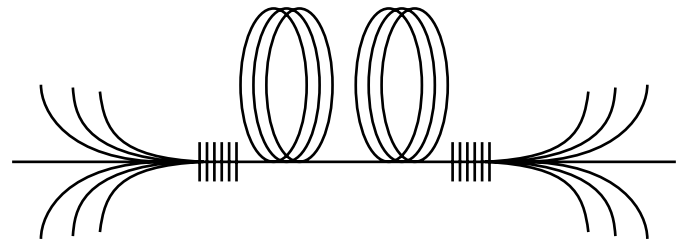
We assist in all phases of the product development process, from initial component design to the engineering of specialized fibers, and the manufacture of fiber-based sub-assemblies. As a full service organization, Nufern also offers Telcordia and fiber laser testing in our state-of-the-art labs.

Service:

- Fiber design and development
- Fiber-intensive sub-assembly design and development
- Specialized coatings
- Cabling and connectorization
- Telcordia testing
- Laser sub-assembly prototyping and testing



Fiber Laser Sub-Assembly



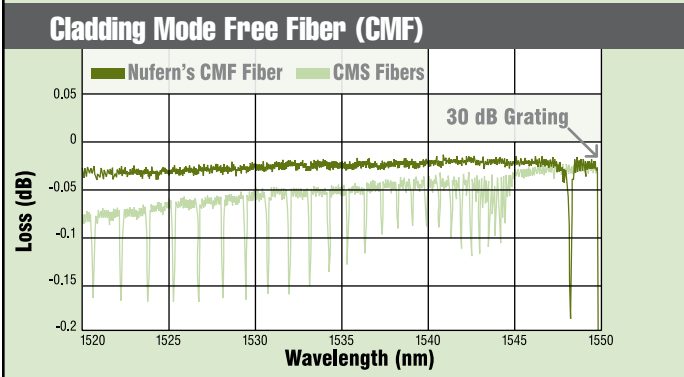
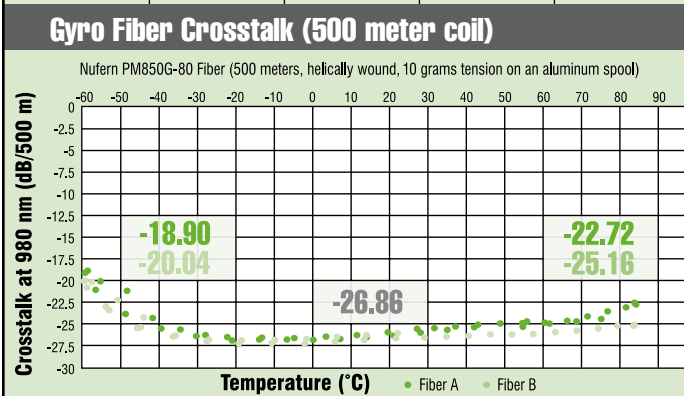
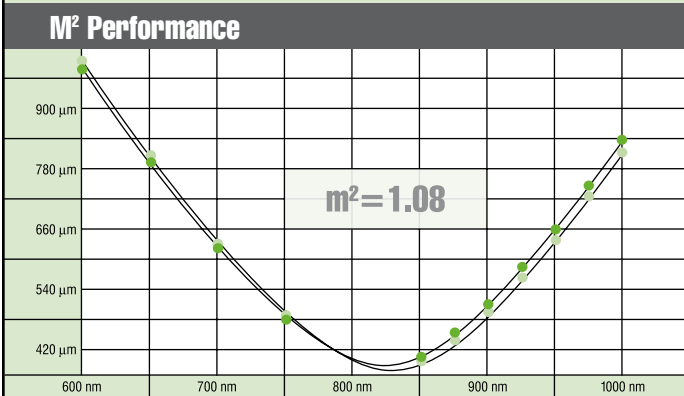
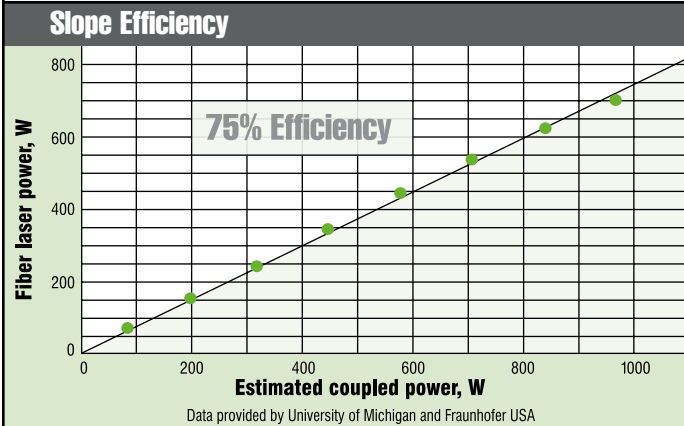
Distinguished performance.

The high efficiency of Nufern LMA-YDF-20/400 fiber allows for the use of cost-efficient power sources.

Near Gaussian-mode quality of Nufern's LMA (large-mode area) fiber laser sub-assembly.

Maintains a low and constant crosstalk over a broad temperature range for more accurate gyro performance.

Cladding modes typically associated with high reflection gratings are eliminated in Nufern CMF fiber.

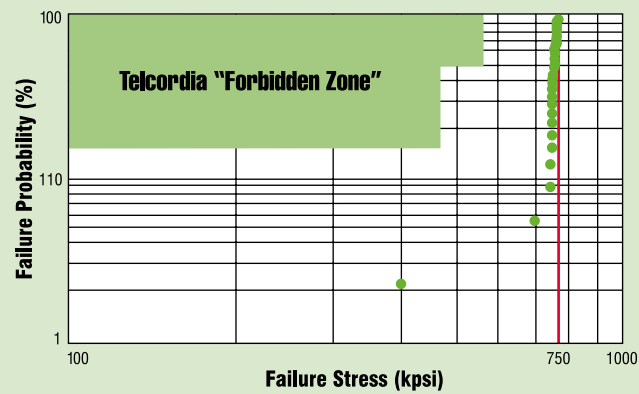
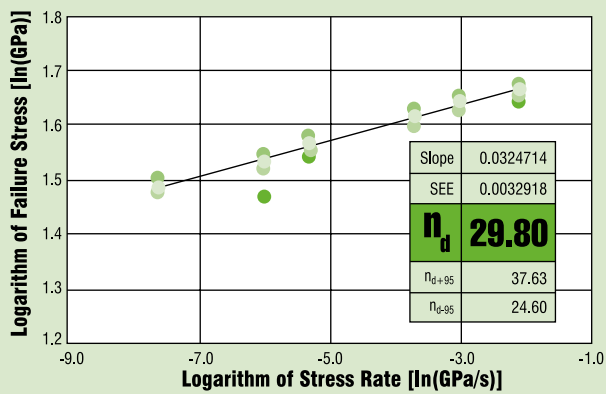
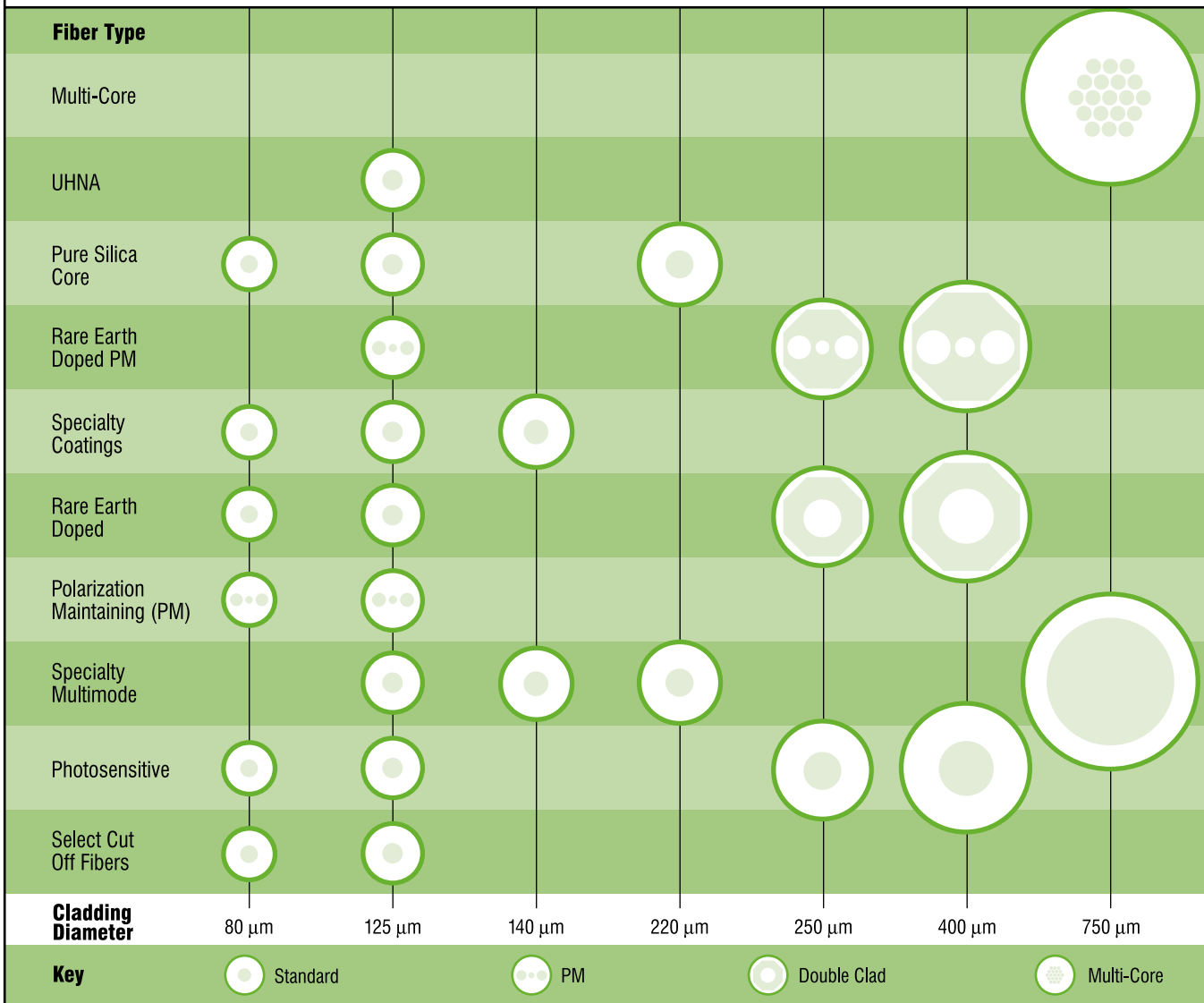


Our double-clad fibers were developed to meet the rising demand for high-power, high-brightness fiber sources. These fibers are available with a variety of dopants, in PANDA-style polarization maintaining variations, and with high-NA claddings. Our large-mode-area Ytterbium-doped fiber is ideal for high-power (energy) fiber lasers and amplifiers.

The complex tasks and resources required for the production of fiber-intensive optical sub-assemblies should not be a barrier to product development. Nufern has the internal capabilities to assist in the design, development, and manufacture of optical sub-assemblies for a variety of applications and industries.

Nufern manufactures a complete line of optical fibers and sub-assemblies to address the demanding technical requirements of fiber optic gyroscopes (FOGs). Nufern's PANDA-style bend-insensitive PM gyro fibers are unmatched in performance and reliability. Our gyroscope fibers provide high birefringence and exceptionally tight dimensional controls, which are critical for the manufacture of high-precision, high-performance gyro coils.

Standard fiber offering.



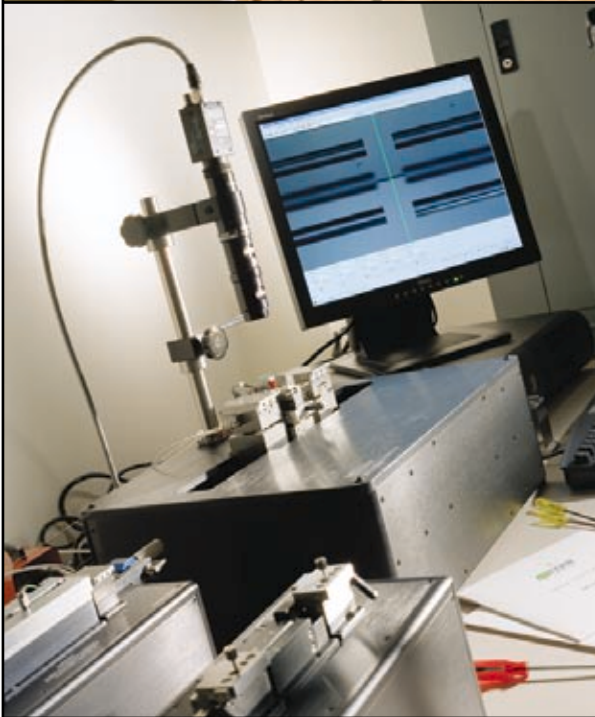
We welcome the opportunity to welcome you.

If you've determined that the design, production, handling, and processing of optical fiber is critical to the success of your next design program, then give us a call. We're determined to help make your program a success.

Located minutes from Bradley International Airport.



Our in-house production capabilities enable us to deliver complete sub-assemblies.



We provide custom cabling solutions.

Within our laser labs, we qualify our fibers against customer specifications, as well as assist customers in testing high-power assemblies.

We offer a full range of both standard and custom coils.

