



# Specialty Optical Fiber

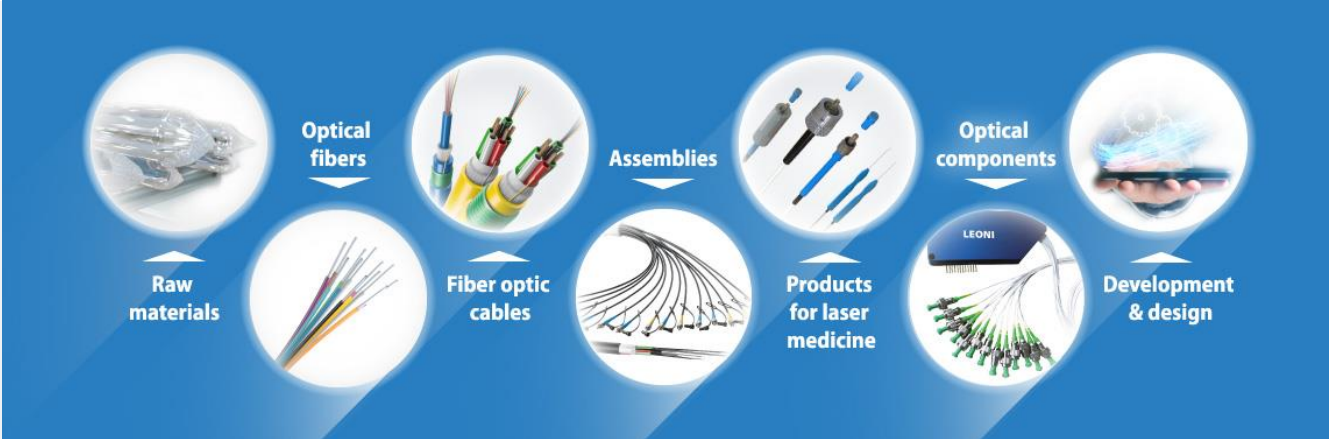
## Leoni Fiber Optics

*H. Sayinc, A. Weinert*

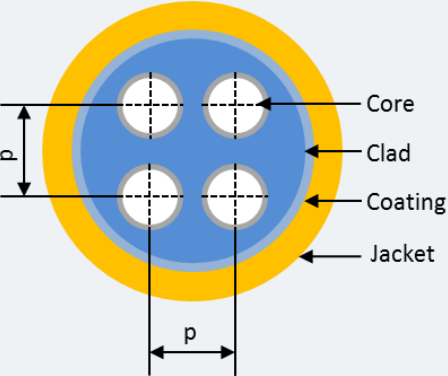
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**LEONI**

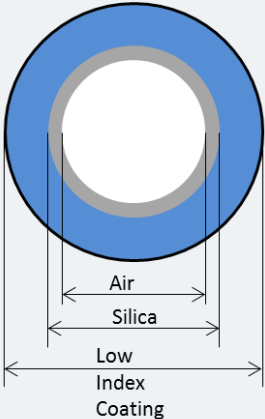
# What we do: Fiber Types by special cross sections



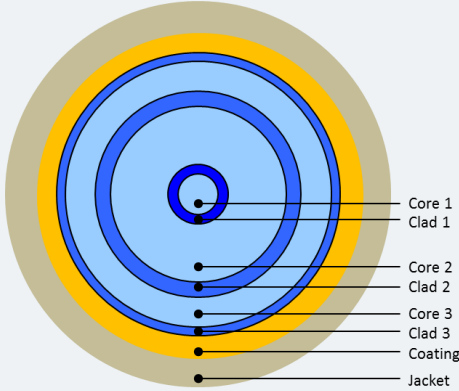
> Multi core fiber



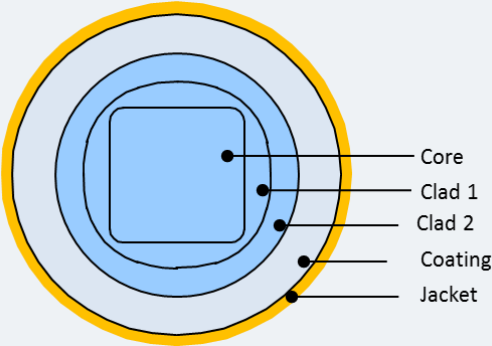
> Silica capillary



> Multi clad fiber



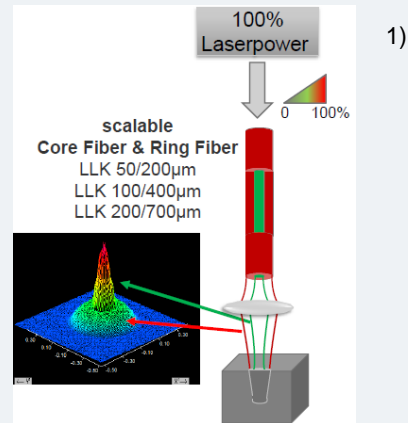
> Non circular shaped core



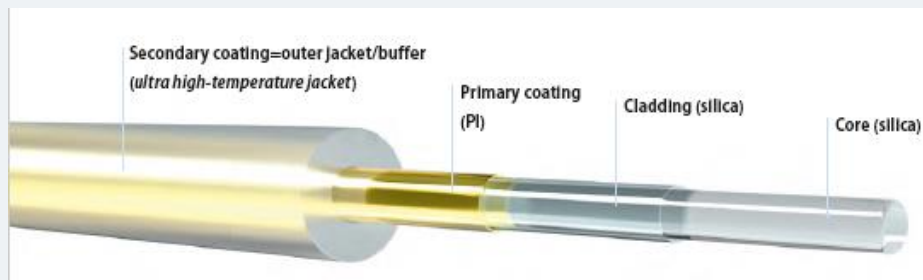
# What we offer: Fiber types with special functionality for your application

## › Laser beam delivery fiber

### › Beam Shaping



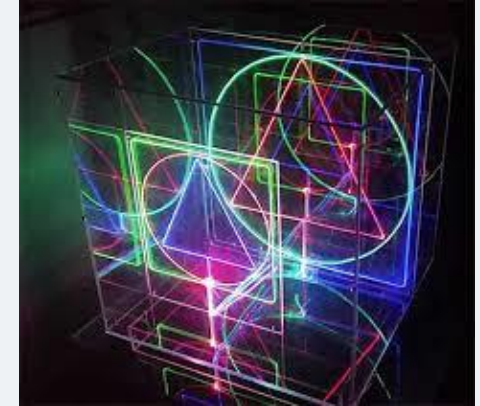
### › Ultra high temperature jacket (>260°C)



## › Side emitting fiber

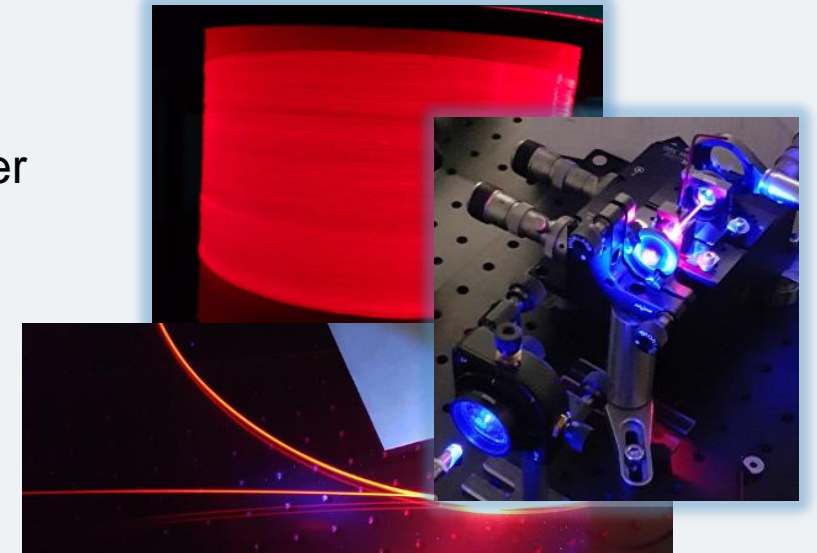
### › AmbientFiber®

#### › Ambient lightning



### › Converting Fiber

#### › Metrology





# What we look for: Projects on optical solutions

- › Collaboration with Microsoft (Azure)

- › Fiber optical sensors and interrogators



- › 3D laser printing

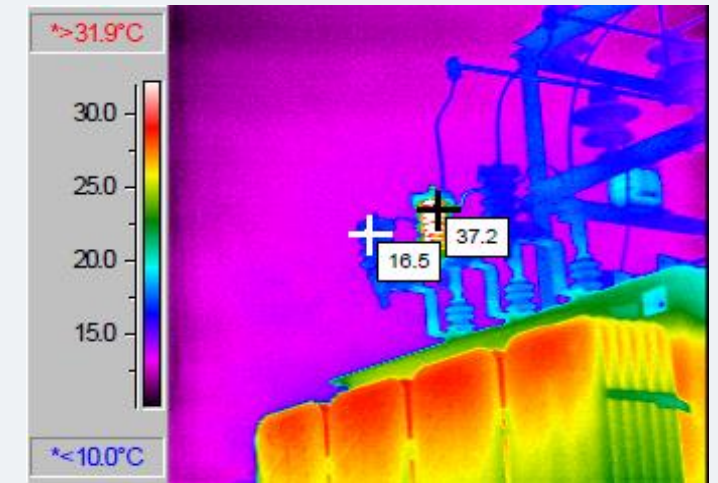
  - › Laser beam delivery

- › Energy infrastructure monitoring

  - › Switches

  - › Varistors

- › Horizon 2020 projects



1) <https://www.3dnatives.com/de/3ddruck-laserschmelzen>

2) Woodwoth et al. Arrester Facts-002: Field testin garresters

# Thank you for your attention



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