



Light is vision.

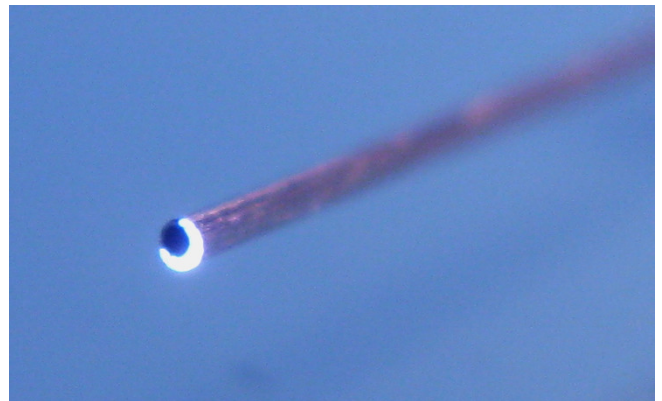
## Custom Projects

### The Universal Applicable Miniature Ringlight

The delivery of appropriate light to the correct spot is often the key factor in many applications. We resolved this key issue for our customers with the world's smallest fiber optic miniature ringlight.

Attached to the customer's instrument the Volpi Fiber Optic Miniature Ringlight delivers the required light to the desired spot. In many cases, the advantages of this solution include:

- Ringlight can be attached directly to an instrument
- No major alterations of the instrument
- No need for an additional illumination
- Optimized handling by combining the instrument and light
- Applications in Industry, Research and Medicine
- Applicable as disposable or re-usable units

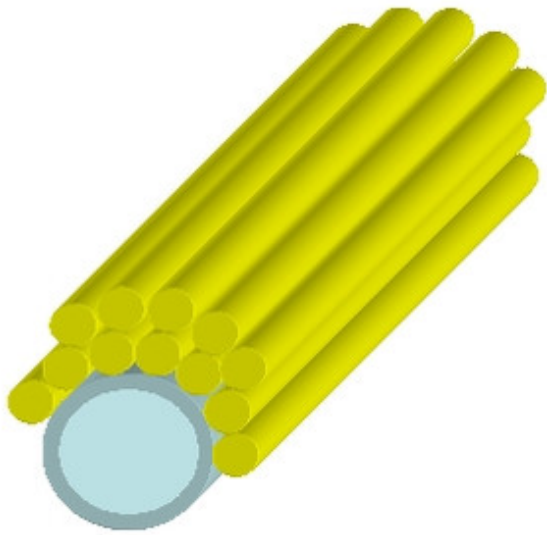


Asymmetrical Fiber Optic Miniature Ringlight

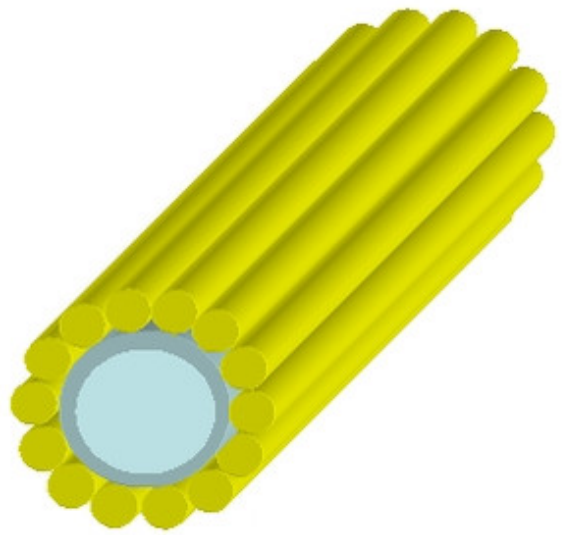
Technical Specifications	Your Product	Our Experience
Axial Shaft Length	Customized	Approx. 3cm
Outer Diameter	Customized	Approx. 600µ
Inner Diameter	Customized	Approx. 500µ
Fiber Layers per Ring	Customized	Approx. 1-10
Fiber Arrangement	Symmetrical or Asymmetrical	Symmetrical & Asymmetrical
Fiber Diameter	Customized	30µ - 50µ
Protection Cladding	Customized	No Cladding
Caliber Material	Customized	Metal
Max. Intensity @ 600mm light guide	Subject to other specifications	Approx 14 Lumen
Medical Certification	On Request	Complied
Life-Cycle of Units	Disposable or Re-Usable	Disposable
Purchase Quantity	On Request	>10.000 / Year



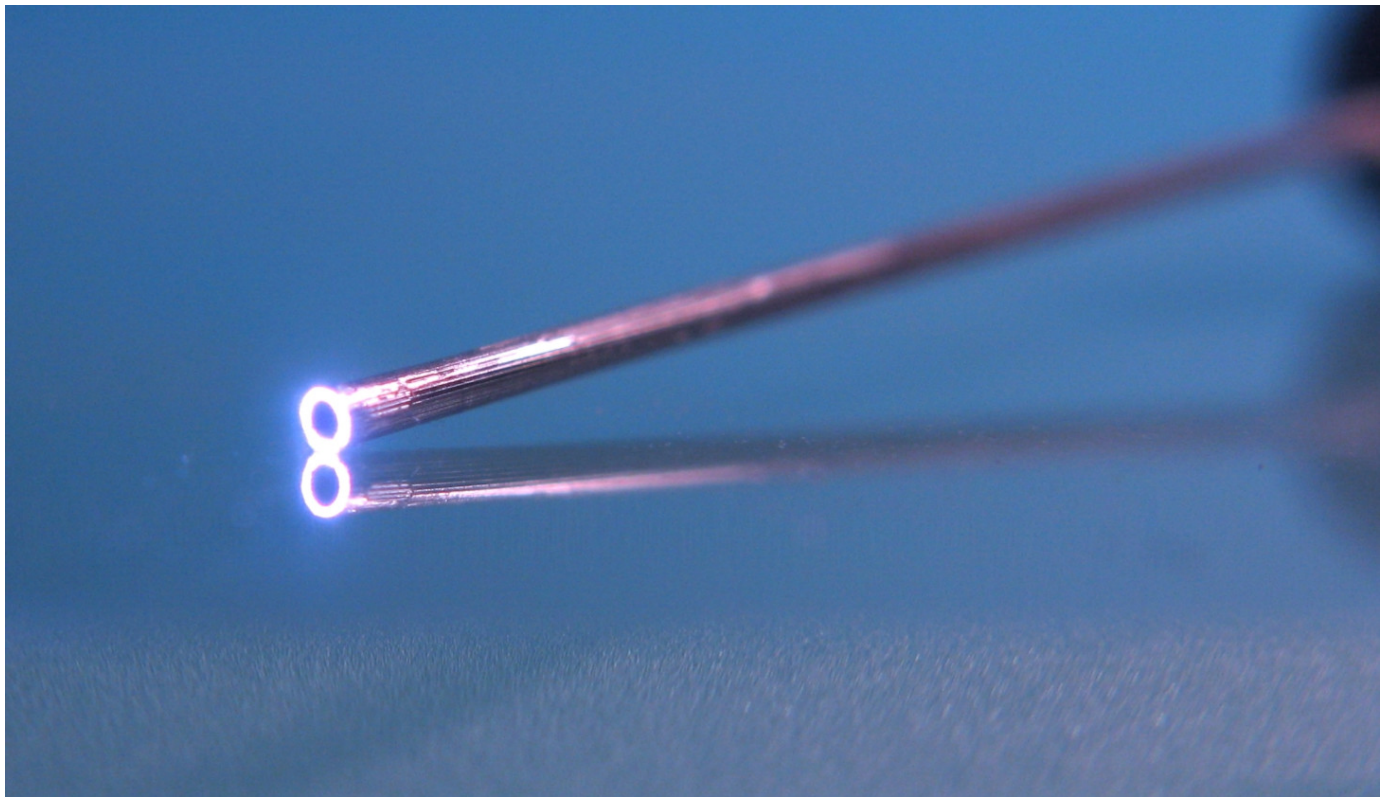
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Asymmetrical Fiber Arrangement



Symmetrical Fiber Arrangement



Symmetrical Fiber Optic Miniature Ringlight (Outer Diameter 600 $\mu$ )