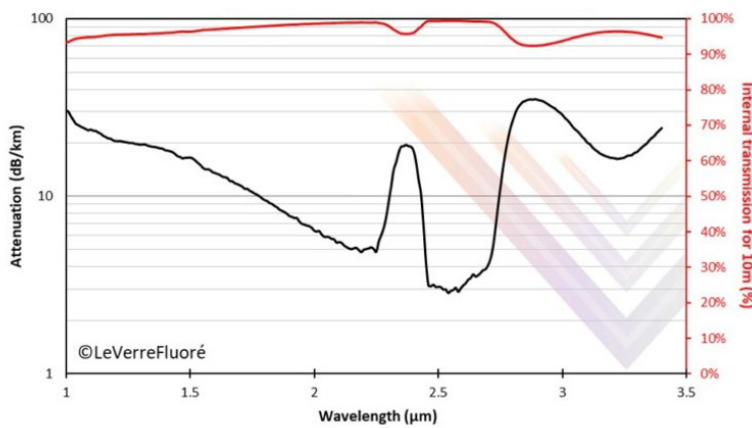


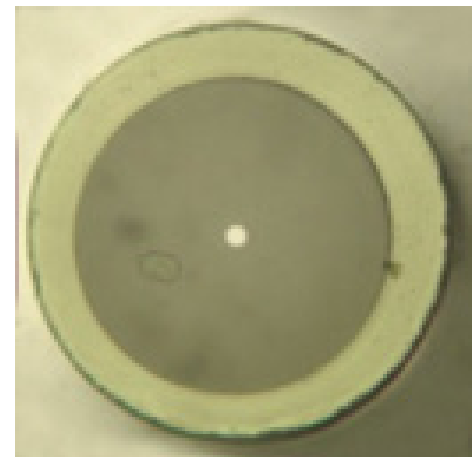
# Zirconium Fluoride Glass Fibers

## Specifications of Single Mode ZFG fibers

Typical Background Loss	< 10 dB/km
Fresnel Loss (Backwards Reflection)	4% per face (air)
Coating Material	UV curable acrylate
Operating Temperature	-180°C to 150°C
Customization	Custom cut-off Custom NA (0.06 - 0.35) Custom core size (from 1 μm diameter)



LVF typical ZrF4 8.5/125 single mode fibers:  
Attenuation per km  
Transmission for 10m



Single mode ZFG fiber cross-section

## Parameters of Single Mode ZFG Fibers

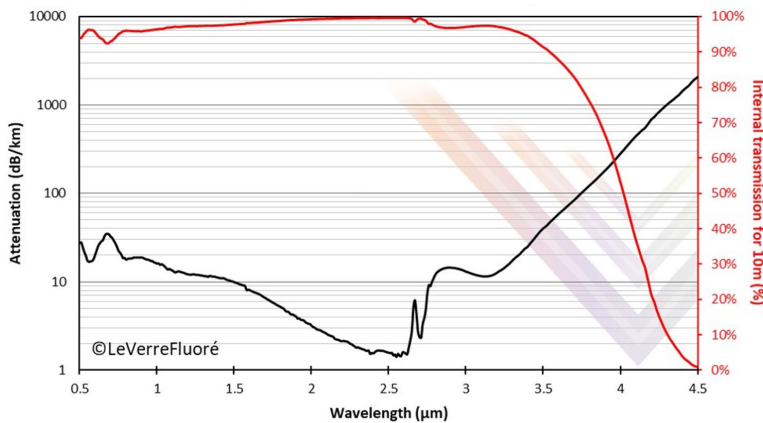
Standard Fiber	Core/Clad Diameter	Numerical Aperture	Cutoff Wavelength	Operating Wavelength	Short Term Bend Radius	Long Term Bend Radius
ZFG SM [1.95] 6.5/125	6.5/125 μm	0.23	1.95 μm	0.3-3.90 μm	≥ 15mm	≥ 45mm
ZFG SM [2.55] 8.5/125	8.5/125 μm	0.23	2.55 μm	0.3-4.5 μm	≥ 15mm	≥ 45mm
ZFG SM [2.2] 7.5/150	7.5/150 μm	0.23	2.2 μm	0.3-4.0 μm	≥ 15mm	≥ 45mm
ZFG SM [2.3] 14/250	14/250 μm	0.125	2.3 μm	0.3-4.1 μm	≥ 25mm	≥ 75mm

All fibers are available as **fiber patch cables** or **fiber bundles**

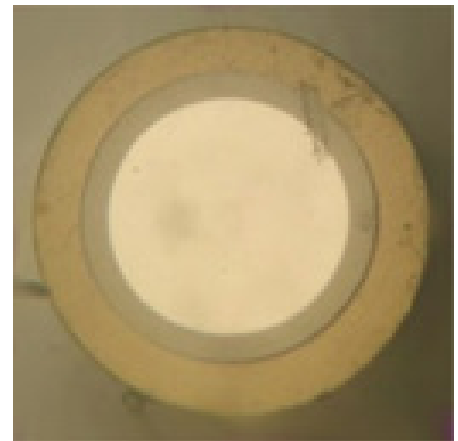


# Specifications of Multi Mode ZFG fibers

<b>Operating Wavelength</b>	0.3-4.5 $\mu\text{m}$
<b>Typical Optical Loss at 2.5 <math>\mu\text{m}</math></b>	< 10 dB/km
<b>Fresnel Loss (Backwards Reflection)</b>	4% per face (air)
<b>Coating Material</b>	UV curable acrylate
<b>Operating Temperature</b>	-180°C to 150°C
<b>Customization</b>	Custom NA (0.12 - 0.30) Custom core/cladding size (up to 1mm core diameter)



LVF typical ZrF4 multimode fibers:  
Attenuation per km  
Transmission for 10m



Multi mode ZFG fiber cross-section

## Parameters of Multi Mode ZFG Fibers

Standard Fiber	Core/Clad Diameter	Numerical Aperture	Short Term Bend Radius	Long Term Bend Radius
ZFG MM [0.15] 90/150	90/150 $\mu\text{m}$	0.15	$\geq 15$ mm	$\geq 45$ mm
ZFG MM [0.20] 100/160	100/160 $\mu\text{m}$	0.20	$\geq 15$ mm	$\geq 45$ mm
ZFG MM [0.20] 200/260	200/260 $\mu\text{m}$	0.20	$\geq 25$ mm	$\geq 75$ mm
ZFG MM [0.20] 300/360	300/360 $\mu\text{m}$	0.20	$\geq 35$ mm	$\geq 100$ mm
ZFG MM [0.20] 400/460	400/460 $\mu\text{m}$	0.20	$\geq 45$ mm	$\geq 120$ mm
ZFG MM [0.20] 600/680	600/680 $\mu\text{m}$	0.20	$\geq 70$ mm	$\geq 150$ mm

All fibers are available as **fiber patch cables** or **fiber bundles**

