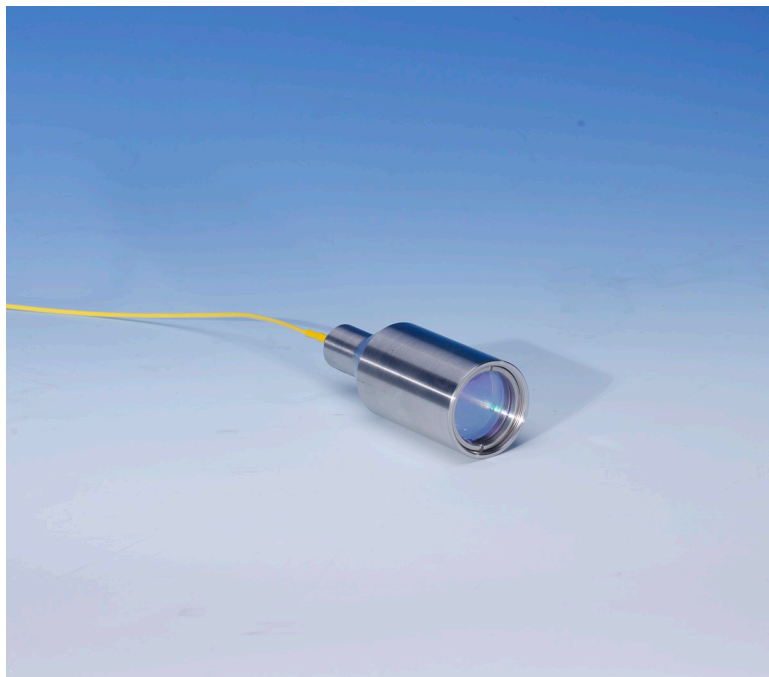# FCX20
# Fixed Fiber Collimators

## Features

- **Diffraction limited**
- **Popular wavelengths**
- **Low pointing error**
- **Singlemode or polarization maintaining fiber**
- **3 mm or 900 $\mu$m jackets**

## Applications

- **Free space communications**
- **Lidar**
- **Doppler lidar**
- **Remote sensing**
- **Metrology**
- **Microscopy**

Our FC20 Fiber Collimators is also available at fixed wavelengths with a pigtail . These Fiber Collimators are of the same multi element design as our variable collimators that gives a highly collimated, Gaussian beam with low wavefront error and no diffraction.

The FCX20 Fixed Fiber Collimator, comes standard with 900 $\mu$m cable that is terminated with FC or FC/APC connector. Singlemode fiber or polarization maintaining (Panda) fibers are used at wavelengths from 400 nm to 2000 nm. Some popular wavelengths are readily available.

Body is made of stainless steel.

# FCX20 Fixed Fiber Collimators

## Specifications

| Wavelengths: | 638nm | 1064 nm | 1550 nm |
|---|---|---|---|
| Aperture size: | 22 mm | | |
| Beam size: | ~11.5 mm | | |
| Beam divergence: | ≤ 0.1 mrad | | |
| Beam pointing: | < 1 mrad | | |
| Wavefront error (rms): (over 1/e^2 points) | < 1/10 wave | | |
| Fiber type: | SM or PM for 638nm | SM or PM for 1064nm | SM or PM for 1550nm |
| Fiber length: | 1 meter | | |

## Ordering Information

| Model # (Singlemode fiber) | Description |
|---|---|
| FCX20-638-FC | Pigtailed at 638nm with FC/UPC |
| FCX20-1064-FC | Pigtailed at 1064nm with FC/UPC |
| FCX20-1550-FC | Pigtailed at 1550nm with FC/UPC |
| FCX20-638-APC | Pigtailed at 638nm with FC/APC |
| FCX20-1064-APC | Pigtailed at 1064nm with FC/APC |
| FCX20-1550-APC | Pigtailed at 1550nm with FC/APC |
| **Model # (PM fiber)** | **Description** |
| FCX20-638-FCPM | Pigtailed at 638nm with FC/UPC |
| FCX20-1064-FCPM | Pigtailed at 1064nm with FC/UPC |
| FCX20-1550-FCPM | Pigtailed at 1550nm with FC/UPC |
| FCX20-638-APM | Pigtailed at 638nm with FC/APC |
| FCX20-1064-APM | Pigtailed at 1064nm with FC/APC |
| FCX20-1550-APM | Pigtailed at 1550nm with FC/APC |

Other wavelengths or fiber lengths available upon request.    Custom modification on fiber, housing, environmental requirements or other issues can be made.

Specifications are subject to change without notice.

**μLS Micro Laser Systems, Inc.**