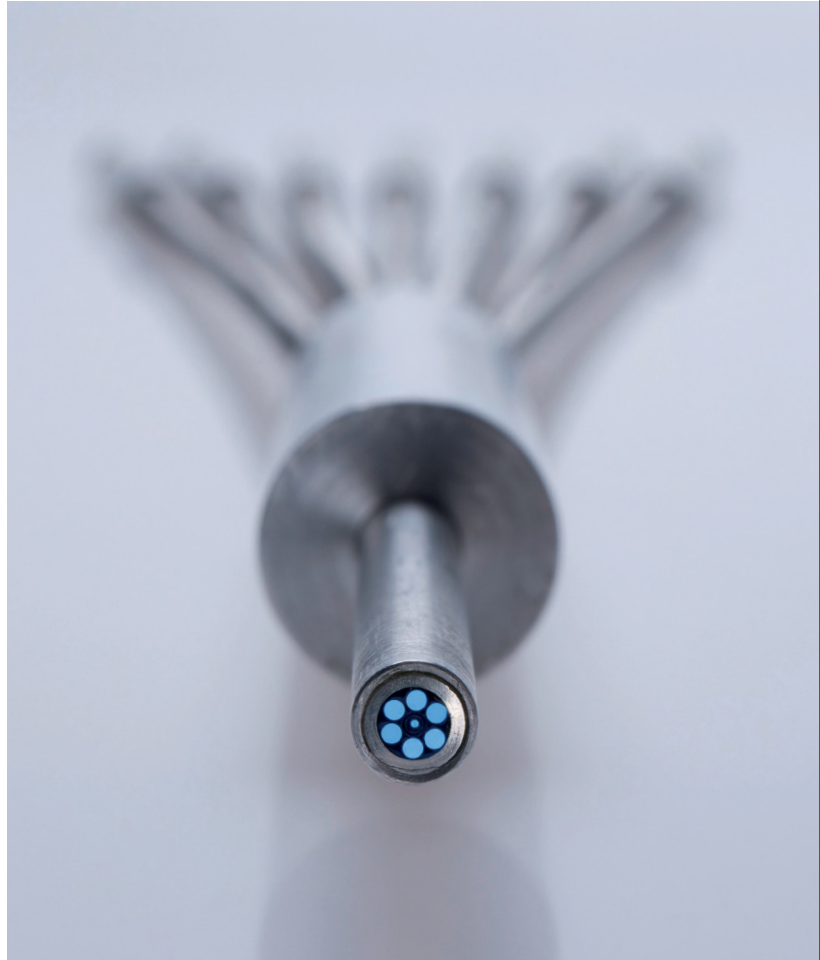
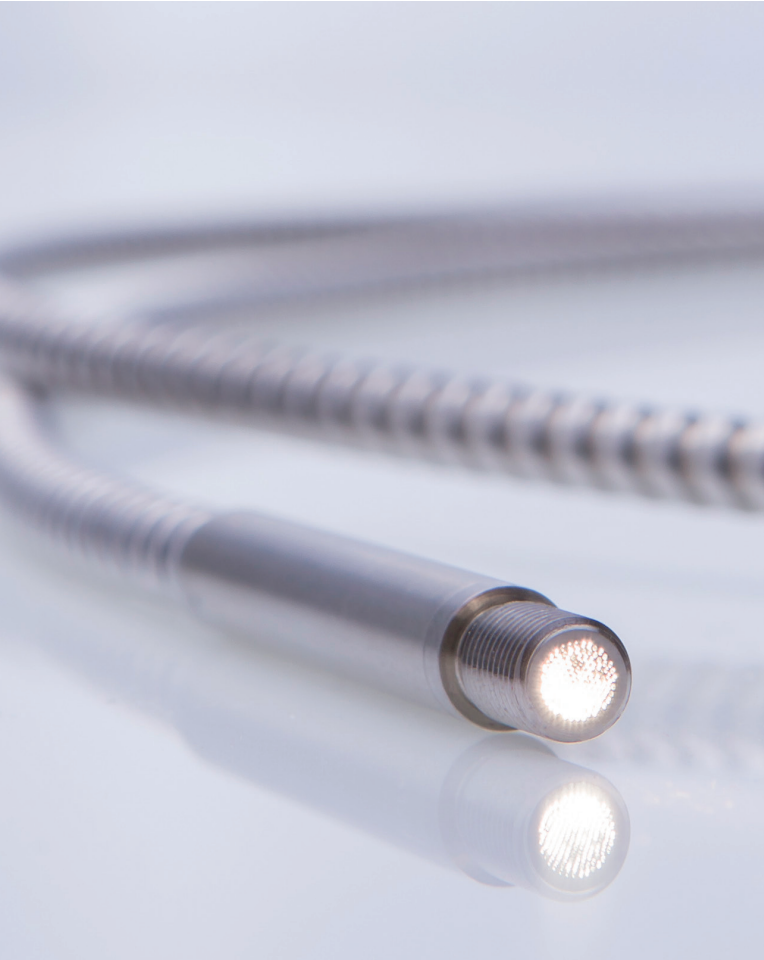


Fiber bundles

Multi-fiber assemblies



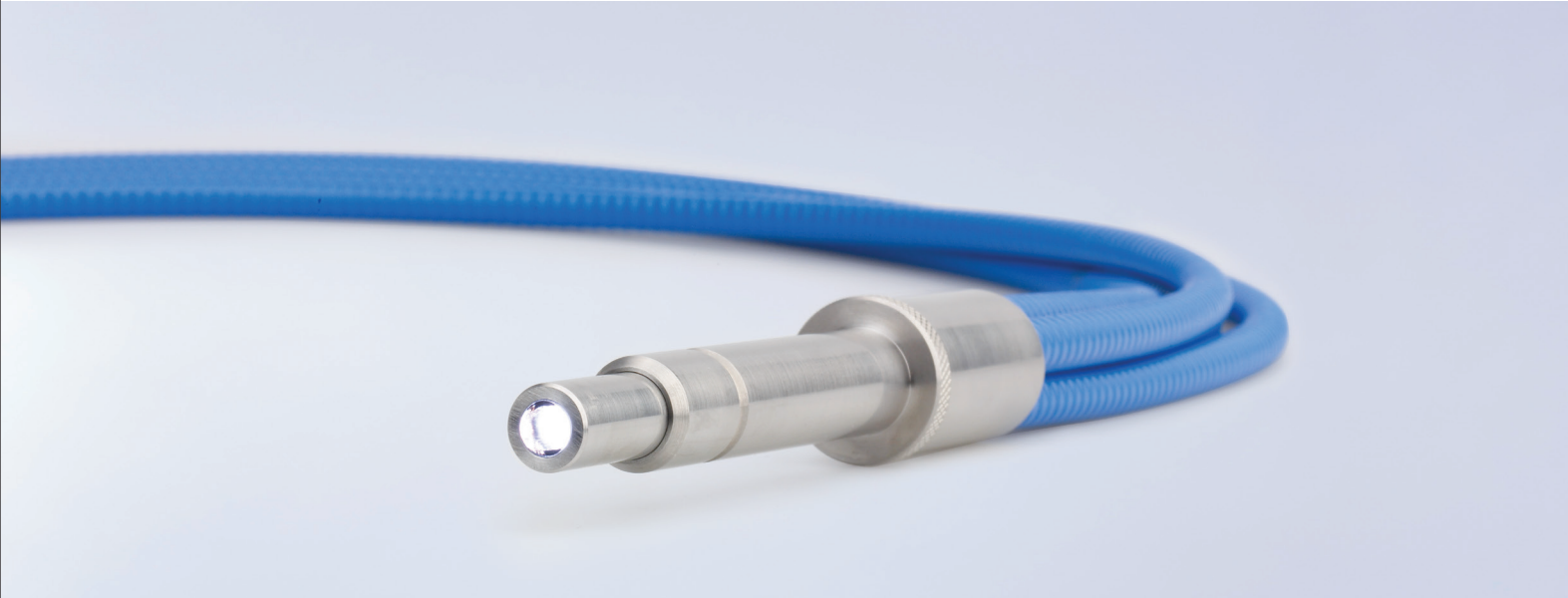
CeramOptec®'s fiber bundles are designed for superior quality and optimum fiber optic properties. We optimise your bundles for various parameters, including NA and packing efficiency. Our fiber assemblies can be flexibly configured and tailored precisely to your application needs.

Options

| | |
|----------------------------------|--|
| Available fibers | All fibers from our range |
| Active bundle surface geometries | Circular Semi-circular Square Rectangular Line Ring Segmented ring |
| Bundle design | Single-branch Dual-branch Multi-branch |
| Bundle variant | Glued Fused Sorted AR coated |
| Connectors | SMA FC/PC ST and others upon customer request |

Fiber bundles

Fused-end bundles



CeramOptec®'s fused-end bundles set the benchmark for consistently high long-term performance. The fusing process completely eliminates inter-fiber spaces and thus positions CeramOptec®'s fused-end bundles among the most sophisticated fiber bundles on the market. As the bundles do not rely on adhesive, they are resistant to temperatures of more than +600°C, making them the first choice for demanding applications!

Wavelength

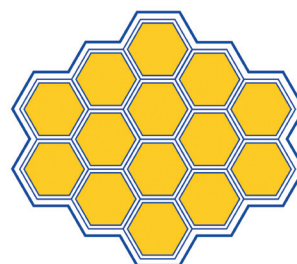
Fused-end bundles 190–2400 nm

Numerical aperture (NA)

| | |
|----------|-------------|
| Low | 0.12 ± 0.02 |
| Standard | 0.22 ± 0.02 |
| High | 0.37 ± 0.02 |

Advantages

- High transmission
- No inter-fiber spaces
- Large active diameter
- Wide range of ready-to-use assemblies available
- Long service life
- Even distribution in multi-branch bundles
- High temperature resistance above +600°C



Bundles made from end-fused fibers show no gaps between individual fibers, since the fibers attain a hexagonal shape during the fusing process.