

Optical Half Ball Lens

Half-ball lenses are suited for fiber communication, endoscopy, microscopy, optical pick-up devices, and laser measurement systems. They are available in various diameters and refractive indices.



Overview

Precision Optical Half-Ball Lenses

These hemispherical lenses are essential components designed for high-precision applications, including fiber communication, endoscopy, and laser measurement systems. Engineered for superior performance, they offer excellent light transmission and minimal distortion. Available in a wide range of diameters, these lenses provide the flexibility needed for sophisticated optical assemblies in medical, industrial, and telecommunications equipment.

Physical Dimensions

| | |
|----------------------------|---------------|
| Diameter Range | 0.5mm - 100mm |
| Center Thickness Tolerance | ±0.01 mm |

Optical Performance

| | |
|------------------|-------------|
| Radius Tolerance | +0/-0.01 mm |
| Surface Quality | 20-10 |

Material & Compliance

| | |
|-------------------------------------|--------------------------------|
| Compliance RoHS Compliant | |
| Substrate Material | N-BK7, Other Optical Materials |
| Coating Options | None or as requested |

Applications

Typical Applications

- Fiber communication
- Endoscopy
- Microscopy
- Optical pick-up devices
- Laser measurement systems