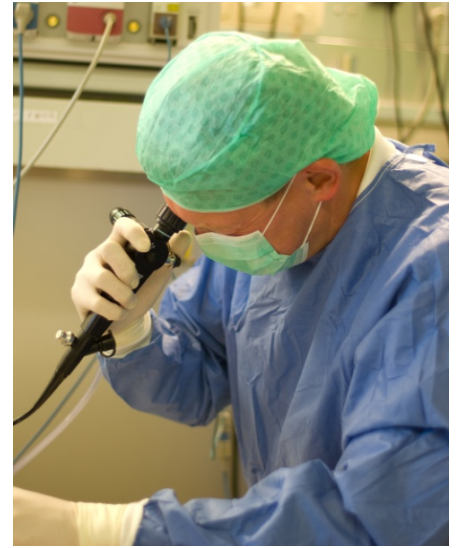


SCHOTT Leached Image Bundles

Flexible Imaging Applications



Application

Endoscopes for medical , veterinary and industrial uses.

Product and Performance Characteristics

Leached fiber bundles are flexible, coherent image guides. The production process to create these includes multiple draws of a high index core glass with a lower index clad glass and an acid-soluble jacket glass.

From design to final inspection, the innovative development process for these fiber bundles is managed completely by SCHOTT, a leading company in the development and manufacturing of customized medical devices.

These leached fiber bundles are primarily used in endoscopes for many medical and veterinary applications, as well as in various industrial applications.

SCHOTT's collaborative design process for leached fiber bundles allows for customized options such as higher resolution, or end surface coatings, depending on the needs of each customer's application.



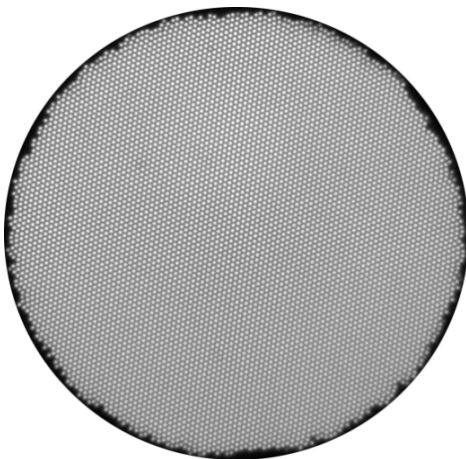
Bending radius of an endoscope, utilizing a SCHOTT image bundle.

SCHOTT
glass made of ideas

Bundle Specifications

| OD Outer Diameter (mm) | Length (mm) | Quality Area Diameter (mm) | Pixel Size (μ) | Pixel Count (k) | Distal Ferrule Diameter (mm) | Proximal Ferrule Diameter (mm) |
|------------------------|-------------|----------------------------|----------------------|-----------------|--|--------------------------------|
| *0.45 | 1000 | 0.38 | 7.4 | 3.5 | 0.55 x 4.80 | 0.64 x 11.80 |
| *0.53 | 1000 & 1050 | 0.45 | 7.4 | 4.5 | 0.65 x 4.50 available with or without | 1.00 x 12.00 |
| 0.57 | 535 – 1000 | 0.45 | 7.5 | 8.2 | 0.70 x 5.00 available with or without | 1.05 x 15.00 |
| 0.70 | 965 – 1000 | 0.58 | 7.2 | 8.5 | 0.83 x 5.00 available with or without | 0.94 x 12.00 |
| 1.00 | 670 – 1000 | 0.80 | 8.2 | 13.5 | 1.27 x 5.00 1.16 x 5.00 | 2.03 x 13.50 1.60 x 10.00 |
| 1.05 | 760 | 0.9 | 7.4 | 18 | 1.22 x 5.60 | 1.22 x 12.80 |
| 1.10 | 485 – 895 | 0.90 | 8.0 | 18 | 1.27 x 4.00 | 1.45 x 13.50 2.03 x 13.50 |
| 1.2 | 520 | 1.05 | 8.4 | 18 | 1.38 x 4.00 | 1.60 x 10.00 |
| 1.3 | 545 | 1.15 | 9.1 | 18 | 1.42 x 5.00 | 1.42 x 14.00 |
| 1.50 | 1350 | 1.30 | 10.6 | 18 | 1.84 x 6.5 | 1.98 x 15.00 |
| 1.65 | 1350 | 1.45 | 11.6 | 18 | 2.19 x 7.8 | 2.46 x 15.00 |

*Bundle also available in 6 μ m for higher resolution. Please contact your Sales Manager for additional information.



Our new next generation flexible fiber optic image bundles, with outside diameter of 0.53.

SCHOTT Next Generation Fiber Optic Bundles

Our next generation fiber optic bundles are taking quality to the next level. Our dedication to delivering excellence to our customers was the driving force behind this innovation. All of our bundles are manufactured in North America and offer the following advantages and features:

- Higher Resolution
- Larger active area for increased visibility
- Superior Image quality
- Special moisture barrier

All specifications are subject to change without prior notice. This datasheet or any extracts thereof may only be used in other publications with express permission of SCHOTT.
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