

SCHOTT® Ruggedized Remote Passive Viewing Systems

Flexible and Rigid Imaging Fiber Bundle Systems



Performance Characteristics



Wound Fiber Bundles are coherent, flexible fiber optic bundles used in applications where images must be transferred from remote locations. These bundles are used in a wide range of applications, including industrial remote vision systems, ordered array detectors, hazardous environment imaging, defense and research.

Their numerical aperture is typically 0.63 and standard lengths range from 610 mm to 4500 mm.

SCHOTT can also produce custom image guide assemblies in vertical or horizontal formats required to meet nonstandard imaging applications.

Bundles can be supplied with non-magnetic and/or non-metallic hardware and sheathing.

SCHOTT
glass made of ideas

Typical Bundle Specifications	
Quality Area:	1.8 x 1.8 mm ² – 38 x 33 mm ² with custom capabilities
Format Size:	2 mm x 2 mm up to 40 mm x 35 mm
Lengths:	2-15 feet
Single Fiber Size:	60 x 60 μm, 10 μm elements, 6 x 6 array
Numerical Aperture:	0.63
Resolution*:	45 lp/mm
Transmission:	40% @ 500 nm – 1200 nm
Bending Radius:	Determined by bundle diameter and sheathing
Temperature Resistance:	-40 °C to +125 °C (-40 °F to +257 °F)
Chemical Resistance:	Select sheathing resistant against oil, grease, acid, fuel, water.
* Resolution Measurement performed with an 1951 USAF Resolution Target using diffuse white light illumination. Resolution may vary with other wavelengths.	



Sample application of remote viewing through a SCHOTT Wound Image Bundle.

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