

SCHOTT® Wound Fiber Bundles

Ruggedized Flexible Imaging Applications



Performance Characteristics

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

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

Their numerical aperture is typically 0.63. 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 non-standard imaging applications.

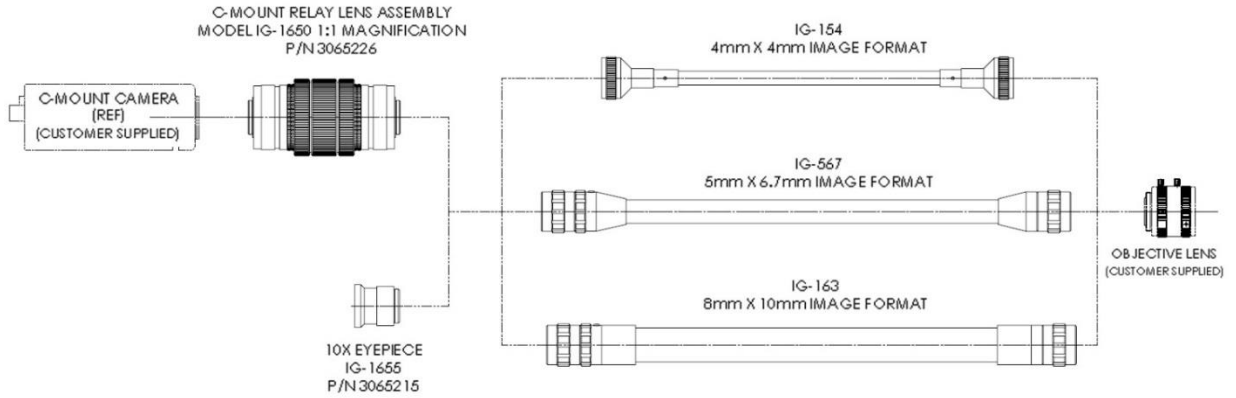
Bundles come with standard “C” mount adaptors on each end, image format size permitting



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 um, 10 um elements, 6 x 6 array
Numerical Aperture:	0.63
Resolution*:	Approx 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.
<ul style="list-style-type: none">Resolution Measurement performed with an 1951 USAF Resolution Target using diffuse white light illumination. Resolution may vary with other wavelengths.	

Standard Wound Image Guide Lens Configurations



Available Lenses



10 X Eyepiece



IG-1643 1.5:1 Relay Lens



IG-1650 1:1 Relay Lens



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All specifications are subject to change without prior notice.
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