

Wound Fiber Bundles

Ruggedized Flexible Imaging Applications



Wound Fiber Bundles For Ruggedized Imaging Applications

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 0.60 and standard lengths range from 610 mm to 4500 mm.

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



Typical Bundle Specifications:

Glass Type:	SCHOTT 75 glass
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
Single Fiber Size:	60 x 60 um, 10 um elements, 6 x 6 array
Numerical Aperture:	0.60
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) up to 150 °C (302 °F) with alternative jacketing
Chemical Resistance:	Select sheathing resistant against oil, grease, bases acid, fuel, water and PVC
Color of cable:	Blue, Black (Others upon request)
Weight of cable:	Determined by bundle diameter and sheathing

* SCHOTT continually upgrades its product and specifications; specifications are subject to change without notice

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