

# **Micro-perforation of pinhole optical cables**





## Micro-perforation of pinhole optical cables

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## Detecting and sizing pinhole features

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Alejandrino Ruiz, John Healy and Bradford Edwards, Pipecare US LLC, discuss detecting and sizing small diameter 'pinhole' type defects.

## Precision Apertures, Slits, Pinholes and Multi-Apertures

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Metal foil products are all made using electroforming techniques to give excellent edge definition and straightness/roundness, features essential in many optical



## Measurements of the standard pinholes made with

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Download Table, Measurements of the standard pinholes made with optical microscope. from publication: A simplified optoelectronic technique for detection

## Tolerancing and manufacture of microfabricated pinholes: creating

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To understand the effect of pinholes on the testbeds' contrast performance, we performed a finite-difference time-domain (FDTD) simulation of a microfabricated and a laser-drilled pinhole

## Formation mechanism of pinholes in electroplated Cu films and its

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Abstract Pinhole formation in electroplated Cu has been a critical reliability issue in developing via-metallization with a thin surface-Cu feature. The focus of this study was



to investigate

## **Optical Pinholes , Optical Apertures , Chrome on Glass , Precision Pinholes**

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Knight Optical's range of precision optical pinhole apertures include 5 micron to 100 micron pinholes manufactured from high optical density chrome on optical glass.

## **High-precision optical micro-apertures , temicon GmbH**

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temicon produces micro apertures for optical systems like pinholes or more complex apertures using UV-LiGa technology.



## **Pinholes and Annular Apertures**

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Thorlabs' Pinholes and Annular Apertures allow for spatial filtering of an optical beam, particularly for removing signals from outside the focal plane. Single

## **Tolerancing and manufacture of microfabricated pinholes: creating**

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Although acceptable in many applications, the performance of the pinhole ultimately impacts the quality of the excitant beam. To understand the effect of pinholes on the testbeds' contrast performance, we

## **Pinholes Slits**

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Precision Pinholes can be used in a wide variety of optical applications, including spatial filtering, creating point light sources, photography and image analysis and processing.



## **Precision Pinholes for Optical Applications , Edmund Optics**

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Edmund Optics offers a wide selection of precision pinholes for leak detection, aerosol studies, holography, fiber optic guides, spatial filtering, research, and

## **Pinholes - pinhole wheels, arrays, applications**

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Optical pinholes are small circular holes through which light can be transmitted. The name of the term comes from the simple fabrication method of punching a thin

## **Pinhole Assessment , Plastic Testing Other**



## Properties

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Pinholes in packaging films may result from the material conversion process or subsequent manual handling and transit of the primary packaging. Damage

## Precision Optical Pinholes

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Mounted metal foil with a pinhole or slit 400um or less. Used in spatial filters, laser diffraction experiments and microscopic magnification correction.

## What Is Pinhole Inspection In Quality Control? Principle,

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Various types of quality inspections are carried out at manufacturing sites. Pinhole inspection is also a type of quality inspection used in the field of manufacturing,



## Laser Microperforation , MicroLaserTech

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What is Laser Microperforation? The goal of perforation is to introduce holes with small diameters into various materials in a controlled manner and with precise

## The Role of the Pinhole in Confocal Imaging Systems

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The success or failure of a particular microscope implementation in achieving true confocal operation depends on the correct choice of pinhole size and shape to approximate as closely as possible the

## Precision pinhole apertures, slits & multiple slits,

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We manufacture high-precision electroformed foil and chrome-on-glass pinholes and slits for demanding optical applications.

## Penetration and scatter in channel micro-pinholes for

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A characterization of penetration and scatter in the pinhole aperture metal can be used in the design of small animal SPECT hardware or for

## Pinhole glasses

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Pinhole glasses, also known as stenopeic glasses, are eyeglasses with a series of pinhole-sized perforations filling an opaque sheet of plastic in place of each lens.



## **Control of pinhole defects formation in semi-flexible coaxial cable by**

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Holistic tin-plating on the outer conductor is one of the key processes in the manufacture of semi-flexible coaxial cable, which is widely applied to the third generation (3G) mobile

## **Pinhole Perforation of Polyurethane Membrane-Covered**

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As the mechanism of active bleeding (malapposition or direct damage to the CS) was obscure on angiography, optical coherence tomography (OCT) was performed.

## **Photon penetration and scatter in micro-pinhole imaging: a**

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Abstract Pinhole SPECT is rapidly gaining popularity for imaging laboratory animals using



gamma-emitting molecules. Penetration and scattering of gamma radiation in the pinhole edge

## **Optimal detection pinhole for lowering speckle noise while maintaining**

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However, a suitable size of the detection pinhole can be chosen to maintain adequate optical sectioning while making the probability density of the speckle noise more normal and reducing its effect. The

## **Pinhole Intraocular Lenses**

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Retina Surgery with Pinhole Optics Although only anecdotal reports are available, retinal surgery following implantation of an intraocular lens with a pinhole optic



## **Precision Pinhole Apertures, Optical Pinholes , High**

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Optical pinhole apertures, with fixed apertures for high repeatability, are used to control beam size and reduce detector saturation in laser and imaging

## **Magnetic field-dependent vortex dynamics and critical currents in**

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Magnetic field-dependent vortex dynamics and critical currents in superconducting microwires with regular large-area perforation by pinholes

## **Pinholes in thin-films**

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Pinholes are a problem for every coating manufacturer, but not for every customer! Depending on where in the optical path your filter is positioned,



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