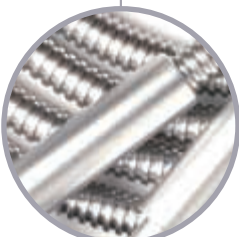


Quartz UV Light Guides



Our Quartz fiber light guides are ideal for light transmission and high-power spot curing in combination with a UV light source.

Because we control the entire production process from fiber drawing to final assembly, we can not only offer an assortment of standard products, but also a multitude of custom solutions ranging in shapes, branches, lengths and diameters. Depending on the application, we can adapt and meet many different requirements.

Quartz Fiber Light Guide Applications

- UV Curing
- Florescence Analysis
- Lighting in Vacuum & Special Environments
- Specialized Medical Illumination
- LCD & Semiconductor Lithography

Quartz UV Light Guide

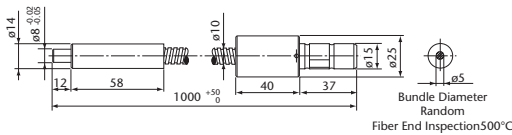


- MORITEX draws raw quartz fibers, processes, and bundles them according to application.
- Straight, multi-branch, and other various configurations of light guides can be manufactured including light guides made to customer specifications.

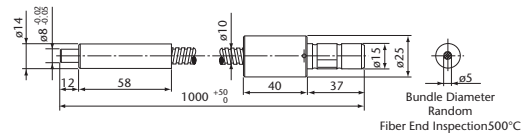
	Model	Notes	Product Code
Standard Model	MSS5- 1000S-UV III	ø5×1000L	A-1260
	MWS5- 1000S-UV III	ø5 x 2-Branch x 1000L	A-1261
	M4S5- 1000S-UV III	ø5 x 4-Branch x 1000L	A-1262
Made-to-order	MSS3.5- 1000S-UV III	ø3.5×1000L	A-1263
	MWS3.5- 1000S-UV III	ø3.5 x 2-Branch x 1000L	A-1264
	M3S3.5- 1000S-UV III	ø3.5 x 3-Branch x 1000L	A-1265
	M4S3.5- 1000S-UV III	ø3.5 x 4-Branch x 1000L	A-1266
	MSS10- 1000S-UV III	ø10×1000L	A-1267
MKS50- 1000S-UV III	Line Width: 50mm	A-1268	
MKS50×0.4W- 1000S-UV III	Line Width: 50mm x 0.4mm (2-Branch Type)	A-1269	

Quartz UV Light Guide

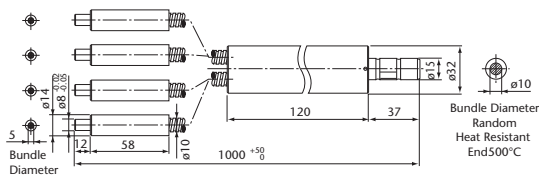
MSS5-1000S-UV III



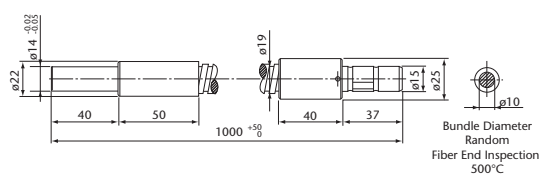
MWS5-1000S-UV III



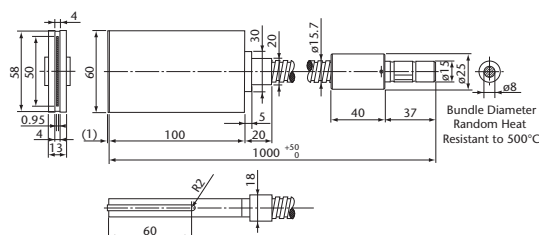
M4S5-1000S-UV III



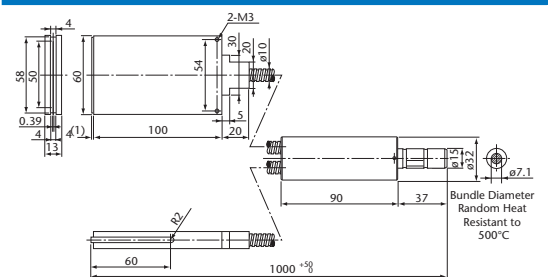
MSS10-1000S-UV III



MKS50-1000S-UV III

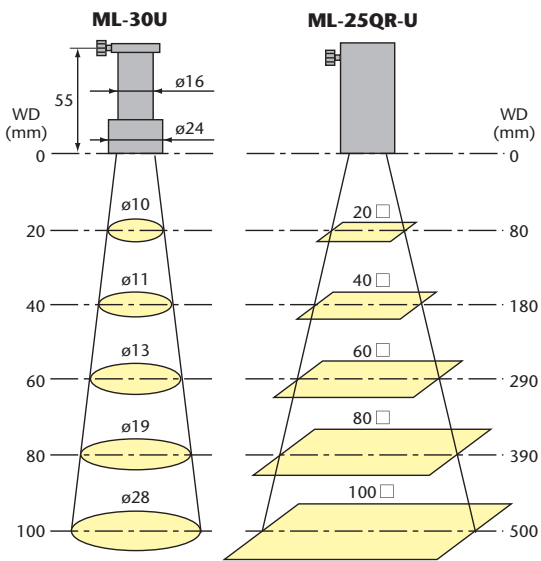


MKS50x0.4W-1000S-UV III



Quartz UV Light Guide Options

Unit for Condenser Lenses



Model	Notes	Product Code
ML-30U	Condenser Lenses	A-8590
ML-25QR-U	Uniform Light Irradiate Quartz Lens	A-8591

Quartz UV Light Guide Data

UV Visible Range Quartz Fiber Characteristics

Optical Fiber Data

NA and Structure Dimensions	NA		0.22±0.02
	Diameter	Core(μm)	200±3
		Clad(μm)	208±3
		Primary Coating (μm)	240±10
Permissible Bend Radius (mm)		20	
Materials	Core	Pure SiO ₂	
	Clad	With F SiO ₂	

Note: Fiber diameter (core/ clad) may be changed without any notice.

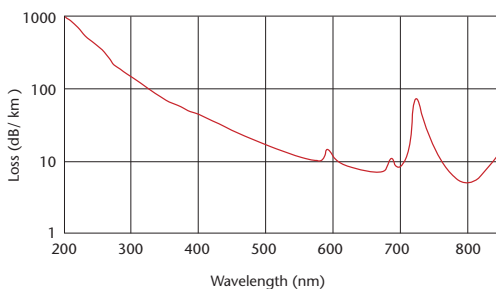
Features

- Suitable for UV-ray transmission because of high OH contents
- Prices are low because of rational production system.
- Transmittance rate is stable for a long time when used for UV light guides.
- Can be used for i, g, and h rays
- The thorough quality control of transmission performance and dimensional precision realizes easy processing with less dispersion and produces good-quality products.
- The technology, experience, and know-how of MORITEX, accumulated over a long period enables various fiber processing.

Applications

- Light guides for UV spot light sources
- Advanced light guides for semiconductors and liquid crystal exposure devices
- Light guides for analyzers
- Fiber probes for sensors
- Light guides for fluorometric analysis
- Light guides for medical use

Wavelength Loss Characteristics



Wavelength Transmittance Rate Characteristics (Per Meter Excluding Fresnel Reflection)

