

MA31 Series

Ringlight

Dolan-Jenner's mini annular ring lights provide excellent uniformity, intense shadow-free on-axis lighting and are especially useful when imaging or inspecting highly reflective objects. The mini ring light Illumination Systems provide high intensity illumination at the highest magnification and long working distances without light adjustment when refocusing or when zoom features are used. The fiber optic system will eliminate the clutter and head radiation of multiple conventional light sources.

Type MA31 is a mini-annular fiber optic for low power objectives of standard compound microscopes having a maximum diameter of 1.55 inches (39mm). This unit provides brilliant, cool 360 degrees' incident illumination at working distances of 2.7 to 4.5 inches (69 to 114mm) to expand the capabilities of the microscope in viewing, inspection, and photography of opaque specimens. Fits objective lenses 28 to 39mm diameter.

To further reduce specular reflections from shiny surfaces, ring lights can be used in combination with a polarizer and analyzer.

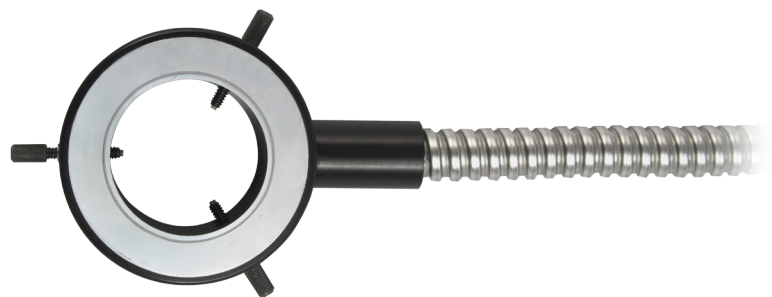
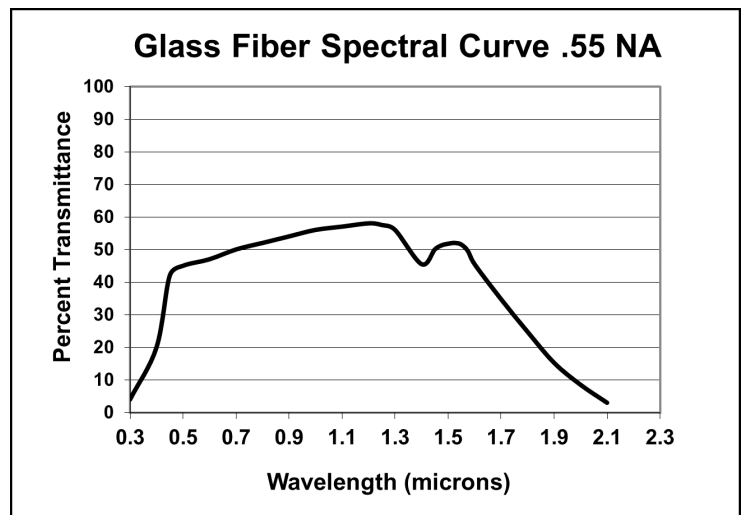
PRODUCT SPECIFICATIONS	
Fiber Material	Borosilicate Glass
Numerical Aperture	0.55 nominal
Acceptance (cone) Angle	68 degrees nominal
Fiber Bundle Diameter	0.333"
Temperature Rating	225°F
Packing Fraction	82% nominal
Sheathing Material	Stainless Steel Metal Hose
Bend Radius	3.0"
Ring Light Head Housing Material	Black Anodized Aluminum
Input End Ferrule Material	303 Stainless Steel
Mounting Type	3 No-mar Thumbscrews
RoHS	Non Applicable
Accessories (Optional)	MA31-PLZ Analyzer Polarizer
Warranty	12 Months



Mi-152 Illuminator
MA3136 Ringlight
MX-10 Adaptor




MA3136 Ringlight

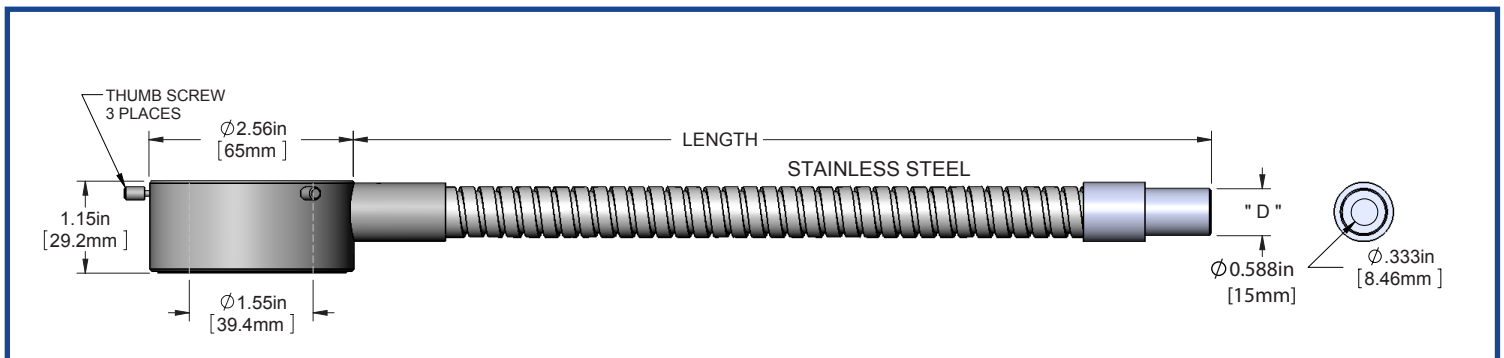


MA31 Series- Black Anodized Housing, Stainless Steel Sheathing

Fits: 28- 38mm Objectives • Mounting: 3 Thumb Screws • Working Distance: 2.73in. – 4.5in.

Model	Part #	Cable Length	End Tip Dia. "D"	Light Source Adapter .590 (15mm) Input	Light Source Adapter 1.00 (25mm) Input	Optional Polarizer
MA3136	SK5303	36	.562	N/A	SX-10, MX-10	<p>MA31-PLZ 010090570000</p> 
MA3136M	700008190036	36	.588	Direct Fit	SX-13	
MA3148	SK53030048	48	.562	N/A	SX-10, MX-10	
MA3160	SK53030060	60	.562	N/A	SX-10, MX-10	
MA3172	SK53030072	72	.562	N/A	SX-10, MX-10	
MA3172M	700008190072	72	.588	Direct Fit	SX-13	

MA31 -- M Dimensions:



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