

1/4" x 36", Flexible Fiber Optic Light Guide
#42-347



1/4" Flexible Fiber Optic Light Guide

Flexible Fiber Optic Light Guides feature high transmission glass fibers sheathed in PVC-covered monocoil; ½" guides sheathed in PVC-covered metal hose. The light guide ends are ground and polished with stainless steel end fittings. Approximately 70% of light enters, with 6% per foot lost. Flexible Fiber Optic Light Guides are utilized for ring light illumination or coaxial illumination that mounts directly on a lens for even illumination of an object. Ring light illumination has the ability to reduce shadows and, is therefore, often used for the illumination of diffuse or dark objects.

Note: [Light guide adapters](#) are needed to mate with the flexible ring light guides for use with Edmund Optics' selection of [fiber optic illuminators](#). The correct adapter will depend on the tip diameter of the light guide. For 1/16" and 1/8" fiber diameters, use [#38-943](#); for ¼", use [#38-944](#); and for 3/8" and ½", use [#38-946](#).

General

Packing Fraction (%):	82% nominal
Type of Illumination:	Fiber Optic Light Guide
Compatible Light Guide Adapter:	SX: #38-944 MX: #66-905
Geometry:	Spot Light

Physical & Mechanical Properties

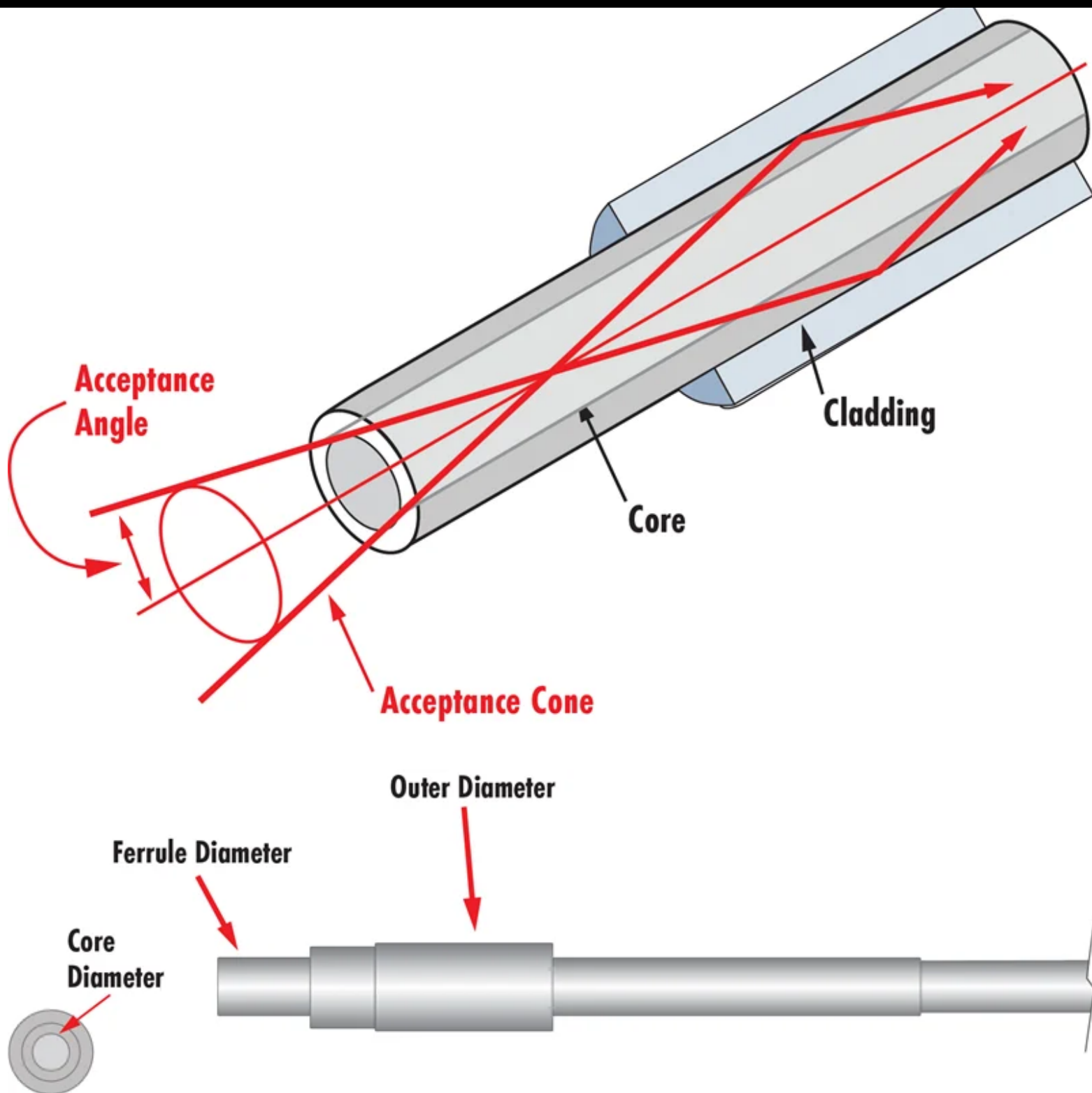
Minimum Bend Radius (mm):	38.1
Diameter (inches):	0.25
Ferrule Diameter (inches):	0.311
Length (inches):	36.00

Optical Properties

Acceptance Angle (°):	68.00
Numerical Aperture NA:	0.55
Fiber Diameter (μm):	50.00
Index of Refraction (n_d) - Core:	1.581
Index of Refraction (n_d) - Cladding:	1.487

Environmental & Durability Factors

Operating Temperature (°C):	-40 to +107
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September 01, 2026

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

Stock No.	Description
42-347	¼" x 36", Flexible Fiber Optic Light Guide

This item does not contain any of the substances listed on the Reach SVHC list as of 7 July 2017 in quantities exceeding 0.1% weight by weight.

Please note the following:

- Entry 11 of Annex V of the REACH regulation EC 1907/2006 as amended by regulation 987/2008, exempts "non-hazardous" glass components from registration.
- Items considered to be packing materials and which do not form part of, or are not required for the operation of, the product, are not considered to be within scope of this declaration.
- EO does not routinely analyze products for substances not purposely added or specified within the design specifications, drawings and assembly procedures.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance
September 01, 2026

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | Compliance@edmundoptics.com



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<i>Stock No.</i>	<i>Description</i>
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Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications and quality assurance provisions. Please call 1-800-363-1992 should any questions arise from this shipment.



Jeff Harvey- EVP of Operations