

SCHOTT® Universal Light Guides “EP”



Excellent transmission and long lifetimes make the SCHOTT® Universal Light Guide the first choice for endoscopy and other demanding medical illumination applications.

Extremely versatile, these light guides can be used with various endoscopes and light sources through the use of threaded proximal and distal end tips. These end tips will accept commercially available adapters.

The light guides are supplied with SCHOTT’s well proven standard fibers, protected with non-stick silicone sheathing, and ends terminated with a high temperature epoxy. This version offers an economical price point for standard procedures.

Description	End Termination	Length (mm)	Active Diam. (mm)
ULG-EP-4.8-3000-gy	Epoxied	3000	4.8
ULG-EP-3.5-3000-gy	Epoxied	3000	3.5

Variations

Standard sheathing color is grey. Color variations available (red, blue, green, yellow). Minimum order quantities apply.

Standard length is 3000 mm. Alternative length available upon request. Minimum order quantities apply.

End ferrules with metric ends accept commercially available endoscope and light source adapter, such as for STORZ, OLYMPUS/ACMI, WOLF, ZEISS et. al.

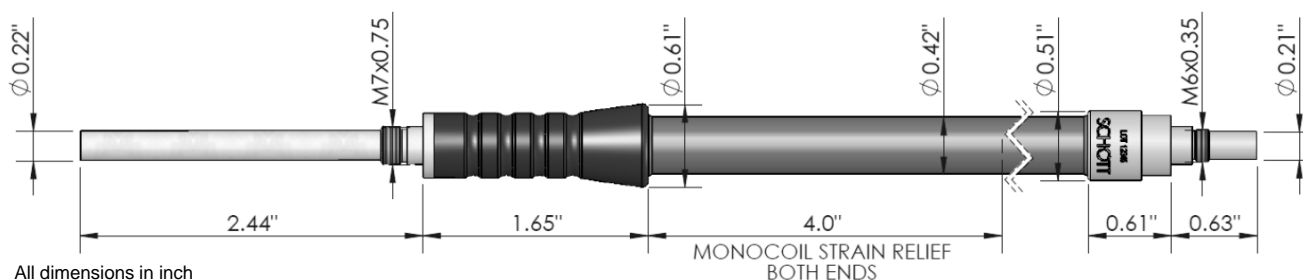
Adapters are available upon request.



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Optical Data	Fiber Type		SCHOTT® A2 Fiber
	Numerical Aperture	Theoretical value at 587 nm	NA = 0.64
	Eff. acceptance angle (2α)	@ V(λ) and 1 m length	~ 83°
	Transmission	Acc. to DIN 58141 Part 2 @ 546 nm and 3 m length	> 55 % (typical value)
Mechanical Data	Sheathing		Non-stick silicone sheathing
	Min. bending radius		50 mm
Operating Temperatures	Operational long-term	Entire length	+10°C...+40°C
	Operational long-term @ Optical End Surface	Input end (Light source)	200°C
		Output end (Endoscope)	150°C
	Transportation and Storage		- 20°C ... + 60°C (Non-condensing)
Re-processing	Cleaning & Disinfection	Cleaning, disinfection and sterilization approved according to ISO 17664	Manual & machine-made chemical cleaning and disinfection
	Autoclaving		@ 134°C, 3 bar, 10 min. > 100 cycles
	Plasma Sterilization		Low temperature plasma sterilization (STERRAD 100S)
Medical Device Approvals	Designed and manufactured according to ISO 13485 requirements for medical use		Yes
	FDA Premarket Notification 510 K		Yes
	Unique Device Identification (UDI)		Yes
	ROHS		Compliant with exemption

Proximal End (Light Source)

Distal End (Endoscope)



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