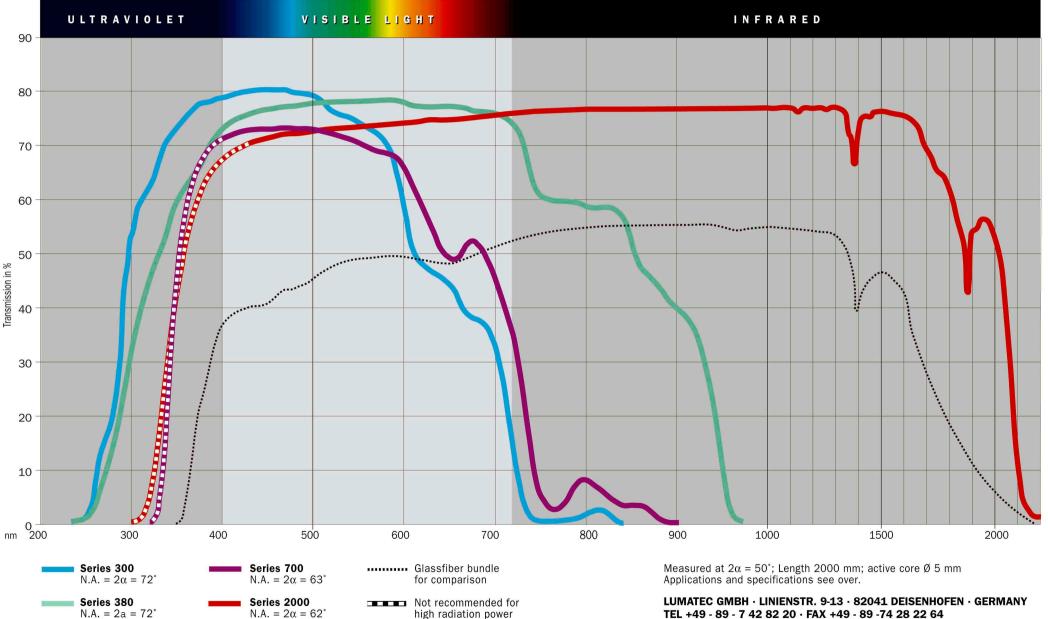


LIQUID LIGHTGUIDES

A TECHNOLOGICAL BREAKTHROUGH IN LIGHT TRANSMISSION



LUM/TEC[®] Liquid Lightguides Spectral Characteristics



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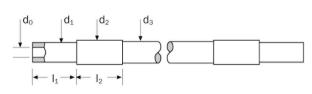
LUM/TEC[®] Liquid Lightguides

Series	Standard Core Diameters	NA	Applications and Spectral Range	Specific Properties	
300	2, 3, 5, 8 mm	72°	UV epoxy curing and UV fluorescence inspection at lengths of up to 20m (60 ft). 300nm – 650nm	Superior transmission of up to 5W of UV radiation. Suitable for very rugged environments. Recommended light sources: mercury and xenon short arc, tungsten halogen. Temperature range (long term): -5°C to +35°C	
380	2, 3, 5, 8 mm	72°	Outstanding white light illumination at lengths of up to 30m (100ft). 340nm – 800nm	Excellent transmission from the near UV to the far red even at a length of 30m. Suitable for very rugged environments. Recommended light sources: tungsten halogen, xenon, metal halide. Temperature range (long term): -5°C to +35°C	
700	5,8 mm	63°	White light for medical endoscopy, blue light for dental curing. Lengths up to 10m (33ft). 400nm - 700nm	Enhanced flexibility, ETO sterilizable. Adaptors available for all medical light sources and endoscopes. Recommended light sources: tungsten halogen, xenon, metal halide. Temperature range (long term): 0°C to +35°C	
2000	2, 3, 5, 8 mm	62°	Visible and near infrared illumination. Lengths up to 10m (33ft). 420nm - 2000nm	Transmission of high power near infrared radiation in the multi- watt range. Protection required from high power radiation below 420nm (integrated dichroic longpass filter available). Recom- mended light sources: xenon or tungsten halogen lamps, Nd-YAG or diode lasers.Temperature range (long term): +5°C to 35°C	

Dimensions of Standard End Fittings (mm)

Active Core Ø	E		dard	S	Protective Sleeve	Minimum Bending Radius			
d ₀	d ₁	I_1	d_2	I_2	d ₃				
2	4	6.7	8	20	5.5	30			
3	5	20	9	24	7	40			
5	7	20	10	24	9.5	60			
8	10	20	15	40	12.5	100			

Many other end fittings, a variety of claddings, and custom designs are available on request. Detailed leaflets are available for every series.



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