

Optimize Light Transmission, Protect Your Design

Essentra's Light Pipes are engineered to channel light efficiently from surface-mount LEDs to external display points—minimizing light loss and enhancing clarity in tight spaces. Manufactured from UL94 V-0 rated clear polycarbonate, these durable components support modern electronic designs where visibility, safety, and precision matter.

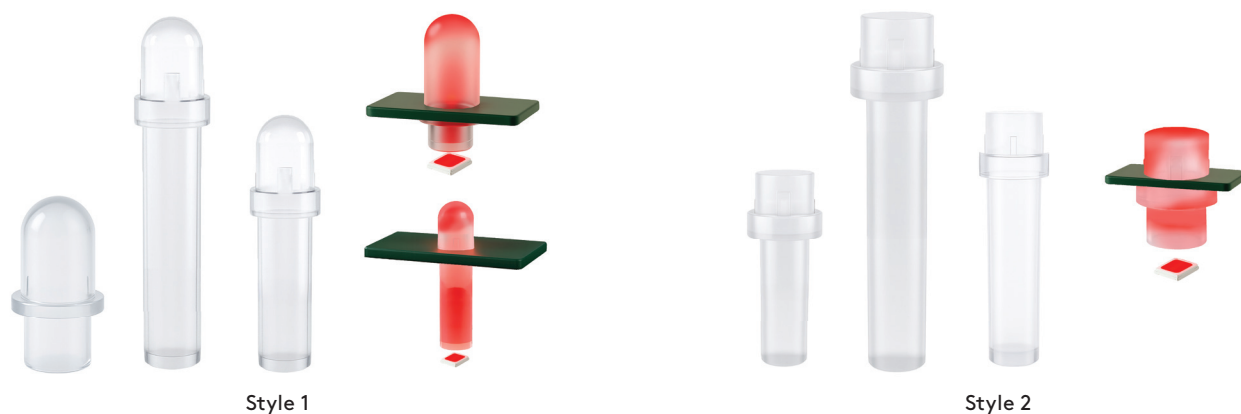
With domed or flat lenses to accommodate your aesthetic or functional preferences, our Light Pipes also offer Electrostatic Discharge (ESD) protection by isolating the LED from potential user contact. Both top and bottom entry options give you full control over design, form, and function. Whether you're streamlining a compact control panel or building a robust interface, these pipes ensure light gets where it needs to go—with maximum brightness and minimum fuss.

APPLICATIONS

- Backlight Displays
- Car Displays
- Consumer Electronics
- White Goods
- Medical Devices
- Testing & Measurement Instruments
- Industrial Automation Equipment
- Drones

LP1 Series

Bottom Entry Rigid Light Pipes

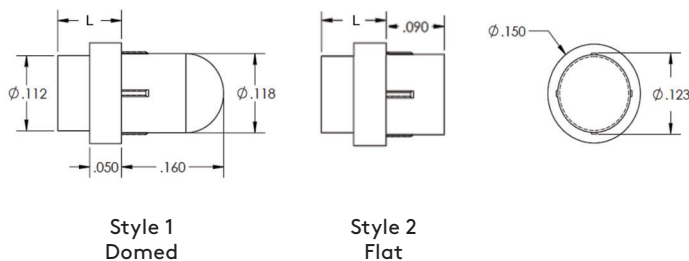


Specifications:

- Material: UL94 V-0 Polycarbonate
- Color: Clear

Features:

- Acts as a conduit to transport light from an LED to another location while minimizing the loss of light
- Domed and Flat front shapes allow for flexibility of design
- Surface mount LED compatible
- Provides ESD protection by isolating the PCB from potential contact



Item No.		L		Mounting Hole		Panel Thickness		Bulk Pack Qty
Style 1	Style 2	in	mm	in	mm	in	mm	
LP1-121-0100	LP1-121-0100-F	0.100	2.5	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-3MM	LP1-121-3MM-F	0.118	3.0	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-0125	LP1-121-0125-F	0.125	3.2	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-4MM	LP1-121-4MM-F	0.157	4.0	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-0178	—	0.178	4.5	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-0188	LP1-121-0188-F	0.188	4.8	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-5MM	LP1-121-5MM-F	0.197	5.0	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-0200	—	0.200	5.1	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-6MM	LP1-121-6MM-F	0.236	6.0	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-0250	LP1-121-0250-F	0.250	6.4	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-7MM	LP1-121-7MM-F	0.276	7.0	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-0313	LP1-121-0313-F	0.313	8.0	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-8MM	LP1-121-8MM-F	0.315	8.0	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-0350	LP1-121-0350-F	0.350	8.9	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-9MM	LP1-121-9MM-F	0.354	9.0	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-0375	LP1-121-0375-F	0.375	9.5	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-10MM	LP1-121-10MM-F	0.394	10.0	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-0460	—	0.460	11.7	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-0500	LP1-121-0500-F	0.500	12.7	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-0625	LP1-121-0625-F	0.625	15.9	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-0750	LP1-121-0750-F	0.750	19.1	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-0830	LP1-121-0830-F	0.830	21.1	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000
LP1-121-1000	LP1-121-1000-F	1.000	25.4	0.121	5.4	0.047 - 0.093	1.2 - 2.4	1000

LP2 Series Top Entry Rigid Light Pipes

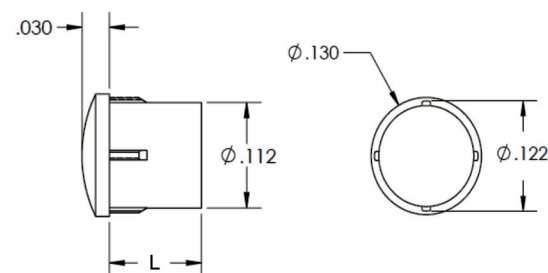


Specifications:

- Material: UL94 V-0 Polycarbonate
- Color: Clear

Features:

- Acts as a conduit to transport light from an LED to another location while minimizing the loss of light
- Sleek low profile design
- Surface mount LED compatible
- Provides ESD protection by isolating the PCB from potential contact



Item No.	L		Mounting Hole		Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	in	mm	
LP2-115-0100	0.100	2.5	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-3MM	0.118	3.0	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-0125	0.125	3.2	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-4MM	0.157	4.0	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-0188	0.188	4.8	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-5MM	0.197	5.0	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-0215	0.215	5.5	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-6MM	0.236	6.0	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-0250	0.250	6.4	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-7MM	0.276	7.0	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-0313	0.313	8.0	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-8MM	0.315	8.0	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-0350	0.350	8.9	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-9MM	0.354	9.0	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-0375	0.375	9.5	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-10MM	0.394	10.0	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-0500	0.500	12.7	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-0625	0.625	15.9	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-0750	0.750	19.1	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-1000	1.000	25.4	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000
LP2-115-1200	1.200	30.5	0.115	2.9	0.047 - 0.093	1.2 - 2.4	1000

LP3 Series Bottom Entry Rigid Light Pipes

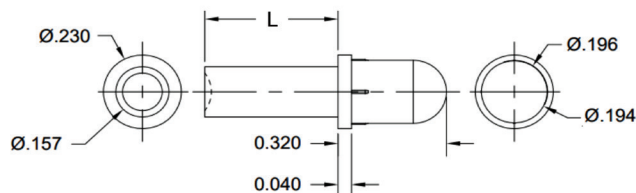


Specifications:

- Material: UL94 V-0 Polycarbonate
- Color: Clear

Features:

- Acts as a conduit to transport light from an LED to another location while minimizing the loss of light
- Sleek low profile design
- Surface mount LED compatible
- Provides ESD protection by isolating the PCB from potential contact



Item No.	L		Mounting Hole		Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	in	mm	
LP3-195-0100	0.100	2.5	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP3-195-0125	0.125	3.2	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP3-195-0188	0.188	4.8	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP3-195-0250	0.250	6.4	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP3-195-0350	0.350	8.9	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP3-195-0375	0.375	9.5	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP3-195-0500	0.500	12.7	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP3-195-0625	0.625	15.9	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP3-195-0750	0.750	19.1	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP3-195-1000	1.000	25.4	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP3-195-1250	1.250	31.8	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000

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LP4 Series Top Entry Rigid Light Pipes

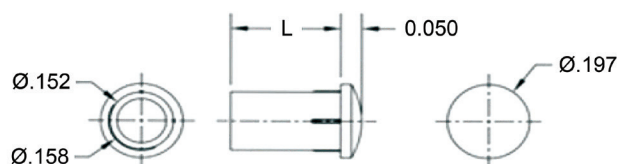


Specifications:

- Material: UL94 V-0 Polycarbonate
- Color: Clear

Features:

- Acts as a conduit to transport light from an LED to another location while minimizing the loss of light
- Sleek low profile design
- Surface mount LED compatible
- Provides ESD protection by isolating the PCB from potential contact



Item No.	L		Mounting Hole		Panel Thickness		Bulk Pack Qty
	in	mm	in	mm	in	mm	
LP4-156-0100	0.100	2.5	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP4-156-0125	0.125	3.2	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP4-156-0188	0.188	4.8	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP4-156-0250	0.250	6.4	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP4-156-0350	0.350	8.9	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP4-156-0375	0.375	9.5	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP4-156-0500	0.500	12.7	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP4-156-0625	0.625	15.9	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP4-156-0750	0.750	19.1	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP4-156-1000	1.000	25.4	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000
LP4-156-1250	1.250	31.8	0.195	5.0	0.047 - 0.093	1.2 - 2.4	1000



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