

S601 Slim Stix LED fixture

What is it used for?

The [S601](#) Slim Stix can be used anywhere a vanishingly small and very bright source of light is needed. The most common uses remain under/above cabinet, cove and display case illumination. We have created an impressive range of accessories to support code-compliant installation all of the different uses that this product can have.

What is unique about it?

The important differences between S601 and other similar-looking products are as follows:

- 1) **UL listing** – We have several installation options specifically aimed at US residential and commercial NEC code compliant specifications
- 2) **Product design** – JESCO has the highest quality LED sources of our own specification. Our unique plug and play system simplifies installation and is a favorite with installers across the country.
- 3) **Technology** - Each section of S601 product has high performance, locally mounted, board-mounted LED drivers - typically 3 per a 1 foot fixture - which means that each LED is carefully supervised by its own LED driver. This method ensures consistent operation and longevity combined with immunity to local power supply fluctuation and power distribution shortcomings – a JESCO innovation unmatched in the industry.
- 4) **Accessories** – JESCO offers a deep line of [accessories](#) with contractor hardwire and plug-connected installation options, and light control accessories all intended to simultaneously satisfy the designer, the installer and the electrical inspector all while pleasing the owners bank account and eye.
- 5) **Depth of line** – With S601 JESCO has created the widest variety of options in the industry for power supply type and lighting control means – a set of specifications much copied but rarely equaled.

Reliable, sophisticated, installation-friendly and code-compliant. All of which add up to a turnkey product line that remains the industry leader today.

Can I dim it?

Can I connect it to my building control system?

Yes. JESCO's PWM (Pulse-width modulation) dimmer, the [LC-DIM-5A](#), offers full range dimming. Options within our dimming products facilitate installation conditions ranging from a simple knob on a power cord (LC-DIM-5A), through to residential architectural wallplate dimming (LC-DIM-5A-HW & DS-DV-TV) and on through to the largest imaginable commercial building control systems (LC-DIM-5A-HW + any control system with 0-10V interface).

The S601 prefers to be controlled by 0-10V capable building control systems, but it is also able to communicate to multiple other industry standard protocols if need be.

From the very simplest knob mounted under a counter through to interfacing with complex energy management systems JESCO has a solution – contact JESCO customer service for assistance with your next lighting control specification.



Will the S601 work with Lutron's HomeWorks® or Grafik Eye® dimming systems? Will the S601 work with Crestron dimming systems?

As you may or may not know, JESCO's S601 LED fixtures have all been independently tested by [Lutron](#) and [Crestron](#). After conducting their testing, both companies have confirmed that our products are among the few that will work seamlessly with their many dimming options. Test results are available on the Lutron web site – search "JESCO" on the Lutron site.

Unlike many of the LED fixtures in the market, JESCO's product is well suited for incorporation into high-end residential homes and commercial spaces using the very best dimming systems available due to our constant current design and our proprietary dimming controller, the [DIM-5A](#).

In fact, Lutron has just modified their GRAFIK Eye® dimmer to better integrate their controls with our fixtures. They have introduced a new model number, #GRX-TVI-CPN6267, into their product offering tailored to our S601.

The new Lutron dimmer, model number GRX-TVI-CPN6267, is the recommended version if the dimming design plan calls for using a GRAFIK Eye® dimmer. Until this change is added to their standard dimmer, this is a custom version dimmer (pricing should be the same or close as the standard) and available through normal Lutron distribution channels with 1 to 2 week lead-time. You can also find out how to get this dimmer on their website [HERE](#).

If you have any questions on dimming choices visit the Lutron or Crestron websites or contact our technical department directly at support@jescolighting.com

How many dimming interfaces can I put on one wallplate dimmer?

JESCO has tested up to 7 x LC-DIM5A-HW interfaces per each 0-10V wallplate dimmer (LC-DIM-5A-HW & DS-DV-TV for instance).

In reality, because the [LC-DIM-5A](#) is a high impedance input product drawing only a few milliamps (~7mA) per device, it is likely possible to connect many more than 7 devices to most systems on the market. We have not tested operation beyond 7 devices at JESCO though.

The LC-DIM5A-HW is both a current-source and current-sink compatible device – enabling it to work successfully on most control manufacturer's equipment.

What is the standard operating voltage for the S601?

24 volts DC is the standard operating voltage for the product line. For the S601 system we recommend our [DL-PS-xx/24](#) series of power supplies. Refer to the specification sheets for JESCO's DL-PS line of LED power supplies and drivers for more information.

Typically the necessary power supply will install on a single 15 or 20 Amp circuit.

24V power distribution was selected in order to render the longest, brightest and most consistently lit fixture runs while at the same time complying with the complex UL and NEC code restrictions you will come across on job sites.

Additionally, each section of S601 product has high performance, locally mounted board-mounted LED drivers – typically 3 per foot of fixture – meaning that each LED is carefully supervised by its own LED driver. This method ensures consistent operation throughout each run and LED longevity combined with immunity to local power supply fluctuation and normal power distribution shortcomings – a JESCO innovation unmatched in the industry.



JESCO DL-PS power supplies can operate at 120 volts, 277 volts and other European and international power utility company supply voltages. Many of our DL-PS plug-connected power supplies also have the ability to accept world-market power cords (by others) permitting operation in multiple territories with one single product – one product for the entire world in other words.

What is the maximum run length possible using S601?

For our S601 series, the maximum continuous installed run length is 20 feet per each home run to a power supply.

Is there a minimum installed run length for the S601 series?

8" is the minimum length that can be purchased from JESCO. Please note that our DL-PS electronic power supplies do not have a minimum load requirement but our DL-PS magnetic power supplies do. Please check the specification sheets for the exact requirements of the chosen power supply.

How can I connect lengths around obstacles? Do you have a jumper cable?

To get around obstacles we offer flexible [connecting cables](#) in lengths from 3" to 48". Connectors are typically used to create unlit sections and/or to jump power around obstacles or through walls. JESCO has set up its power supply and fixture UL listings to permit Class 2 power feeds to go through walls, etc. using our jumpers as well as contractor-created hardwire jumpers – consult your electrical contractor or authority having jurisdiction for the exact regulations in your locale. All the cables within the JESCO S601 system can be interconnected and you can use multiple connector lengths together to achieve a certain distance.

How do you connect the S601 at right/left angles?

We offer the [S601-R-CONN](#) and [S601-L-CONN](#) hard right and hard left connectors. The [S601-FLEX-CONN](#) is a flexible product that allows for angles under 90 degrees.

How do I mount the S601?

The S601 mounts with our standard mounting clip, [S601-MC](#), which allows for 30 degree rotation. Two of each is included with each fixture. We also offer a single 6 foot mounting channel, [S601-CH6](#), where the S601 can be mounted directly or at a 45 degree angle. The [S601-CH6T](#) is a 6 foot mounting channel for two S601 that again allows the fixtures to be mounted directly or at a 45 degree angle.

Is the S601 waterproof?

No, the S601 is not designed for use in wet locations.

Can I plug the S601 directly in to a standard 120V US outlet?

Yes, we provide desktop or wall plug drivers that produce the 24V DC power which plug into a standard wall outlet. See JESCO [DL-PS-xx/24](#) series of plug and play LED drivers.



What gauge wire do I run between the LED and the power supply?

In order to eliminate voltage drop, cables specifications of 14/2 AWG and up are typically used.

Your contractor will assist you in specifying the correct gauge of cable required to remotely locate the power supply relative to your fixture location and to determine how to eliminate voltage drop from remote supplies.

Typically you should think in terms of 20' – 50' max feeds to/from remote locations, although any distance is theoretically possible with your contractor's assistance in specification of correct supply cables.

Can I purchase the S601 in higher wattages?

Yes, contact you JESCO representative or our general offices to find out availability of higher wattages and higher lumen outputs to meet your project requirements.

What are the different color temperatures of the S601?

We offer our LEDs in Kelvin color temperatures of 3000-3300°K, 4000-4400°K, and 6000-6500°K.

The lower the color temperature the warmer the color - 3000°K is considered warm white and 6000°K is considered cool white.

How do I replace the S601?

Typically, you will not see any failures in our S601 for many, many years. In the rare event of a premature failure, a section can be replaced within an installed run by simply unplugging the bad section and replacing it with a new one.

Is an in-line switching available?

Yes, we offer the [S601-SW](#) in-line switch box that can plug directly in between S601 fixtures or be connected with our connecting cables.

What are the recommended applications for the S601?

Recommended applications for the S601 series include coves, display cases, offices stores and restaurant, architectural features, corporate showrooms and exhibition display, residential shelves and counters, accenting point of purchase display, signage applications, backlighting of glass and acrylic panels or cut out forms, lighting toe-kick areas, undercabinet task lighting.



How long do your LEDs last?

JESCO LEDs in the S601 family are designed to meet or exceed a Rated Lumen Maintenance Life or L_{70} of 50,000 hours (Meaning the LEDs will maintain at least 70% of their original light output after the fixture has been on for 50,000 hours).

That being said, exceeding the operating temperature values may damage the LEDs by reducing the lifespan, lumen output, and/or adversely impact color consistency. It is recommended that adequate airflow and heat sinking be taken into consideration in the installation and application of this product. Improper thermal management may lead to premature product failure and void the warranty. See the product specification sheets for more information.

Do the colors of your LEDs vary?

We offer LEDs in specific white color temperatures. All our LEDs are designed to maintain their color over time and across the maximum length of a run.

We exceed the market's highest standards by specifying the exact color bins when we select LEDs so that they do not fluctuate more than $\pm 200^\circ$ for warm color temperatures and $\pm 300^\circ$ for cool color temperatures. This meets or exceeds the recognized standards for color quality and guarantees uniformity and consistency of hue and color temperature across LEDs, fixtures, and manufacturing runs.

That being said, inherent to any commercial strip/tape product, individual LEDs within a strip may vary slightly but the overall color temperature of the strip/tape will fall within our tight specifications listed above.

Additionally, each section of S601 product has high performance, locally mounted, board-mounted LED drivers - typically 3 per a 1 foot fixture - which means that each LED is carefully supervised by its own LED driver. This method ensures consistent operation and longevity combined with immunity to local power supply fluctuation and power distribution shortcomings - a JESCO innovation unmatched in the industry.

Why choose LED over any other type of lighting?

LEDs have caused a revolution in lighting. JESCO has helped lead that revolution. We were one of the first manufacturers to make the shift to the LED light source many years ago. Our LEDs are of the highest quality and they are time-tested to be dependable.

There are many reasons to make the switch to LED products. Some of the reasons include:

Technological Impact

LEDs are solid state, light emitting chips that are not encased in fragile glass enclosures or use delicate and inefficient filaments. LEDs are vibration resistant. They also do not need to warm up as they are an instant-on light source. LEDs currently offer life expectancy of 50,000 hours, on average. LEDs offer much more control of correlated color temperatures and provide the option to add color(s) either monochromatically or through RGB technology. The chips are miniscule in size which allows manufacturers to design much smaller fixtures and allows designers and end users much greater flexibility incorporating and installing these fixtures on their projects.

Financial Impact

The long life expectancy means a higher rate of return on investment - installed fixtures can last, at least, 10 years (depending on the design, the lifespan of the power source and the duty cycle of the fixture) with no maintenance. No maintenance means no labor costs and no replacement lamp costs



associated with installed fixtures and lamps over the life of the fixture. Fixtures mounted in high or hard-to-reach locations are the prime candidates for LED lighting. LEDs are very efficient light sources and are cool to the touch unlike incandescent light sources which release 90% of their energy generated as heat. Due to the inherent cooler running temperatures of LEDs, HVAC system design loads can be scaled down. LEDs use much less energy per fixture than standard light sources guaranteeing savings in electrical costs far into the future. Lastly, many local energy providers are currently offering rebates to customers making the switch to LED fixtures.

Environmental Impact

LEDs are easily recyclable. They contain no mercury or lead which require special handling and disposal. LEDs do not emit harmful UV/IR which discolors fabric, furniture and artwork. The U.S. Department of Energy [estimates](#) that rapid adoption of LED lighting in the U.S. by 2027 could deliver savings of about \$265 billion, avoid the building of 40 new power plants and reduce lighting electricity demand by 33% in 2027.

All or even one of the above stated reasons may be the right reason for you to choose a fixture with an LED light source.

The last important factor when choosing an LED fixture is scrutinizing the manufacturer of the LED chip and the incorporation of this chip into the design of the lighting fixture. As the United States EPA and DOE Energy Star program states on its website “Bad design can lead to a wide range of problems, some immediately observable and some not. Poorly designed products often come with exaggerated claims while failing to deliver on the quality specifications provided.” Our LED products are designed around the LED light source and not the other way around making for a well-designed, color consistent and extra long-life fixture with a proven track record. With all our LED products, JESCO offers layout assistance and technical support helping make specification, as well as installation, simple.

Therefore, always look for reputable and trusted sources of LEDs and LED fixtures - be it JESCO Lighting or anyone else.

