SG-LED & SGA-LED Sleek Ultra™ LED Series

What is it used for?

Sleek Ultra™ is the next generation of our award winning, linkable Sleek Plus™ series. Using the same miniature profile and minimal footprint of our market leading 'mini fluorescent' Sleek Plus™ fixture, we have engineered these fixtures to incorporate the latest in LED technology. These fixtures can be used in undercabinet, cove, and shelf lighting as well as backlighting of indoor signs and panels. The Sleek Ultra™ can be linked for longer runs and is available in an adjustable version for better control of light output.

What is unique about it?

The Sleek Ultra™ is a collection of high-performance fixtures. The important differences between JESCO's Sleek Ultra™ 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) **Complete Vertical and Horizontal Product Offering** – We offer the Sleek Ultra™ series designed as either fixed or adjustable, in nominal lengths of 12", 24", 36", and 48", in color temperatures of 3000°K, 4000°K and 6000°K, with or without switches and can be combined with or be a substitution for our market leading fluorescent Sleek Plus series fixtures.

3) **Product design** – These fixtures have the thinnest profile in the market today. Also, our unique plug and play system simplifies installation and is a favorite with installers across the country.

4) **Long runs** – These fixtures have a maximum run of 360 watts of total units (mixed lengths can be combined).

5) **Accessories** – JESCO offers a deep line of grounded accessories with a multitude of contractor hardwire and plug-connected installation options all intended to simultaneously satisfy the designer, the installer and the electrical inspector - all while pleasing the owners bank account and eye.

6) **Simplicity** - The Sleek Ultra™ is intended to take the complications out of using LED strip lighting. No more concerns about optional accessories such as channels, special connectors and lenses. Protecting the LEDs from dust and dirt compromising the tape is no longer an issue.

What is the standard operating voltage for the Sleek Ultra™ series?

These products are a line voltage system and work at standard 120V.

What is the maximum run length possible using Sleek Ultra™ series?

The Sleek Ultra™ is linkable and has a maximum run length of 360 watts of total units.

This does not include any connections between the fixtures thereby extending the overall reach of the product. The overall maximum reach needs to be determined by a qualified electrician based on your power in the building.

Is there a minimum installed run length for the Sleek Ultra™ series?

No, there is no minimal installed length.

How can I mount the fixtures end-to-end without any gaps?

The Sleek Ultra™ series are provided with one direct connector, SG-DC. This direct connectors allows fixtures to be easily connected end-to-end to form one continuous run which provides a uniform and unbroken output of light.

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

The Sleek Ultra™ product line has an extensive offering of grounded connecting cables for every application – from 6" to 36".

How do I mount the Sleek Ultra™?

The Sleek Ultra™ mounts with our mounting clips. Two 0^0 and two 45^0 clips are provided with each fixture.   We also offer a vertical & horizontal 90^0 clip and fully adjustable clip which helps meet any mounting situation you may encounter.

Is the Sleek Ultra™ waterproof?

No, the Sleek Ultra™ is not designed for use in wet locations.

For wet location applications please refer to our DL-RS Rigid Strip LED wet location product line which is specifically designed for Wet and Outdoor installation conditions.

Can I plug the Sleek Ultra™ directly in to a standard 120V US outlet?

Yes, this product line plugs into any household or commercial three prong outlet.

Can I dim it?
Can I connect it to my building control system?

No. This is system is not dimmable. It is an on/off system only controlled by a remote or in-line switch in a metal box or in a plastic box. The SGA-LED comes standard with on/off rocker switch. The SG-LED is available with a switch as an option.

How do I handle awkward entry angles for my power cords?

We offer a standard straight power cord in various lengths (SG-PCxx) as well as a 6 foot right angle version that enters from the front (SG-PCLL) and a 6 foot right angle version that enters from the back (SG-PCL) to help meet all your wiring needs.

When you state that the SGA-LED is adjustable, what do you mean?

The SGA-LED encloses the LED light source within its rotating lens. This lens easily rotates 360° allowing you the opportunity to control the direction of the 180° of light output as desired.

What are the different colors of light offered?

We offer our LED fixture in a White Kelvin color temperatures of 3000°K, 4000°K, and 6000°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 Sleek Ultra™?

Typically, you will not see any failures in our Sleek Ultra™ 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.

What are the recommended applications for the Sleek Ultra™?

Recommended applications for the Sleek Ultra™ 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, indoor 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 Sleek Ultra™ 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 ±200° for warm color temperatures and ±300° for cool color temperatures. This meets or exceeds the recognized standards for color quality and guarantees uniformity and consistency of hue and correlated 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.

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 no 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.