

S700 SEAMLESS

What is the S700 SEAMLESS?

The [S700 SEAMLESS](#) is JESCO Lighting's premier low voltage LED linear fixture. Each S700 fixture is linkable end-to-end with no dark spots even at connections between fixtures or connectors. Inter-connectable lit L-type corners provide for seamless turns - clockwise, counter-clockwise, inside-facing and outside-facing - allowing the fixture to change directions either on a horizontal or a vertical plane. Lit X- and T-type connectors are also available for a wide range of design possibilities. A uniform light output allows for intricate and complex layouts free from any break in the flow of light.

What is it used for?

The S700 SEAMLESS is a low-profile slim fixture measuring at only 7/16"W x 1/2"H. It is the ideal fixture for a variety of applications such as:

- Under-shelf and under-cabinet lighting
- Retail lighting
- Showcase lighting
- Display lighting
- Accent and edge lighting
- Cove and soffit lighting
- Interesting window display

What is unique about it?

The S700 SEAMLESS is a truly a unique and innovative fixture in the low voltage rigid linear LED lighting category. It is packed full of features that sets it apart from standard linear LED fixtures such as:

- Seamless connections between fixtures
- No hot spots, even at connections between fixtures or connectors
- Long runs may be interconnected seamlessly with inline Lit Extender with bottom and side feed
- Lit inside and outside connectors in L, X and T patterns allow for lighting designs in three dimensional planes
- IC chips assure near zero light output lost from the beginning to the end of runs
- Ultra-bright 3-step MacAdam LEDs offer tight color output with a CRI >90
- Integral magnets for easy mounting
- Optional snap-in 0° or 45° mounting clips

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



What is the maximum run length possible using S700 SEAMLESS?

The maximum continuous run length for the S700 SEAMLESS is 16.4 feet. However, runs may be seamlessly extended with use of [S700-EXTBSE](#). It is an in-line connector that allows two separately powered runs to be linked seamlessly for an extended uninterrupted run. It also allows for closed circuit shapes such as squares and rectangles. The cable on the S700-EXTBSF can exit from the back or from the side to allow for easy wire management no matter the application.

This, coupled with the fact that S700 SEAMLESS has IC chips ensures that there is almost zero light output loss from the beginning to the end of runs, allowing designers to extend the run as long as they want without any visible output variation, color variation or break in the flow of light.

Is the S700 SEAMLESS dimmable?

Yes, the S700 SEAMLESS is dimmable using a variety of methods. We offer an in-line touch ON/OFF switch and dimmer with memory, [S700-DIM](#). The fixture can also be dimmed with 0-10V dimmers using our [0-10V dimmable drivers](#) and with Triac dimmers using our [Triac dimmable drivers](#). Please see the [S700 SEAMLESS Specification Sheet](#) for more details.

From resistive dimming to full DMX control, JESCO has a dimming solution no matter what you need—contact JESCO customer service for assistance with your next lighting control specification.

How do you connect the S700 SEAMLESS at corners or around obstacles?

Lit inside and outside connectors in L, X and T patterns allow for lighting designs in three dimensional planes. We also offer connecting cables in 6", 12" and 24" length options to go around corners.

What's in the box?

Each fixture comes with a live end cap, a dead end cap and mounting brackets.

Once the fixture has been installed, the live end of the fixture is connected to either the power cord or the previous fixture, so the live end cap can be discarded once the fixture has been installed.

A dead end cap must be used to terminate the end of every run. Apart from providing protection from dust and moisture, it also provides a finished look to the fixture.

How do I mount the S700 SEAMLESS?

Mounting is achieved by using the imbedded magnets for metal surfaces. Snap-in, fixed mounting brackets S700-BR (provided) and 45 degree mounting brackets S700-BR45 are also available for non-metallic surfaces. The fixture may also be mounted onto non-metallic surfaces with optional metal tabs ACC-MC-MET-01 that interact with the imbedded magnets.

What is the environment rating for the S700 SEAMLESS?

The S700 is UL Listed as suitable for damp locations.



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

No. All LEDs need DC current to operate properly. You can use any of our [24V DC DL-PS LED drivers](#) to power the S700 SEAMLESS. We offer drivers and power connectors in both Plug & Play and Hardwire options.

Can I purchase the S700 SEAMLESS in higher wattages?

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

Can I purchase the S700 SEAMLESS with Full Spectrum LEDs?

Yes, contact your JESCO representative or our general offices to find out availability of S700 with Full Spectrum LEDs to meet your project requirements.

How do I replace the S700 SEAMLESS?

Typically, you will not see any failures in our S700 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, The [S700-DIM](#) an in-line touch ON/OFF switch and dimmer with memory.

How long do your LEDs last?

The LEDs used in the S700 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.

How is the S700 connected to power?

Please see the [S700 SEAMLESS specification sheet](#) for wiring diagrams.



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.

