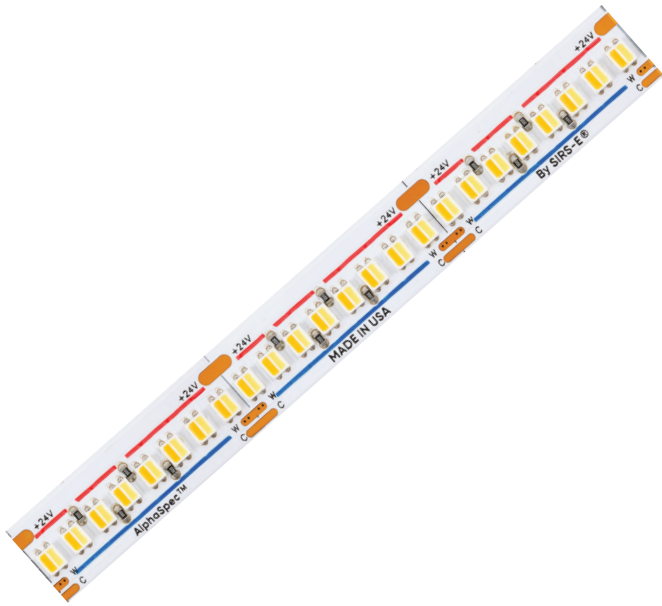




Description

The **AlphaSpec™ Tunable White** LED Strip is a **professional-grade lighting solution** designed for **precise color tuning and exceptional light quality**. **Made in the USA**, it offers seamless, flicker-free adjustment of color temperature from **2200 K to 6500 K**, providing full control of ambience and functionality for architectural, commercial, and residential spaces. With **240 LEDs per meter**, AlphaSpec™ Tunable White delivers smooth, uniform illumination without hotspots. Its **12 mm PCB** ensures excellent thermal stability and consistent performance under demanding conditions. A **high CRI of 95+** guarantees accurate color rendering, making it ideal for environments where visual fidelity matters.

Operating on **24 V DC constant voltage** and available in **IP40 or IP67** versions, AlphaSpec™ Tunable White adapts easily to a wide range of applications. **RoHS certified** and **assembled in Texas**, it reflects dependable American craftsmanship and engineering, offering a perfect balance of **performance, tunability, and reliability**.

**RoHS**

PRODUCT PAGE

Product Specifications

Input Voltage	24V DC	Cuttable Segments	33 mm (1.32")
Limiting Control Method	CV - Constant Voltage	LED Strip Length	16.4 - 100' Spool
Power Consumption	11.8 W/ft.	Tape Width	12 mm (0.50")
LED Type	2835 ChromaSure™	TM21 (LM80)	50,000 hrs ¹
LED Density	240 LEDs/m	Environmental	IP 40 (Indoor - Dry) / IP 67 (Water Resistant)
Board Type / Color	4 oz Copper, White PCB	Connection Type	Hardwire
Beam Angle (Degree)	120°	Pre-Soldered Lead Wire	12" White Cable
Operation Temperature	-20°F to 120°F	Country of Origin	USA Global Components
Mounting Method	Non-Porous 3M 5952 VHB	Warranty	3 Year
Color Rendering Index (CRI)	95+	Certifications	RoHS

Electrical Photometrics

Nominal CCT (K)	Luminous Flux (lm/ft)	Luminous Efficacy (lm/W)	CRI	Max Run	Power Consumption (W/ft)
2200 K	373	68	95+	32' (10m)	5.5
4000 K ²	750	64	95+	32' (10m)	11.8
6500 K	436	81	95+	32' (10m)	5.35

1 - After 50,000 hrs: 20% Luminous Flux loss, 10% Chromaticity change, as per LM80-15.

2 - Both channels on at full intensity.

Ordering Guide

Series	Model	Voltage	Control	CCT*	IP Rating ⁴	Spool Length ft.	LED/m
AlphaSpec	TW	24	CV	2265	40	16	240
					67	100	

Product Country of Origin

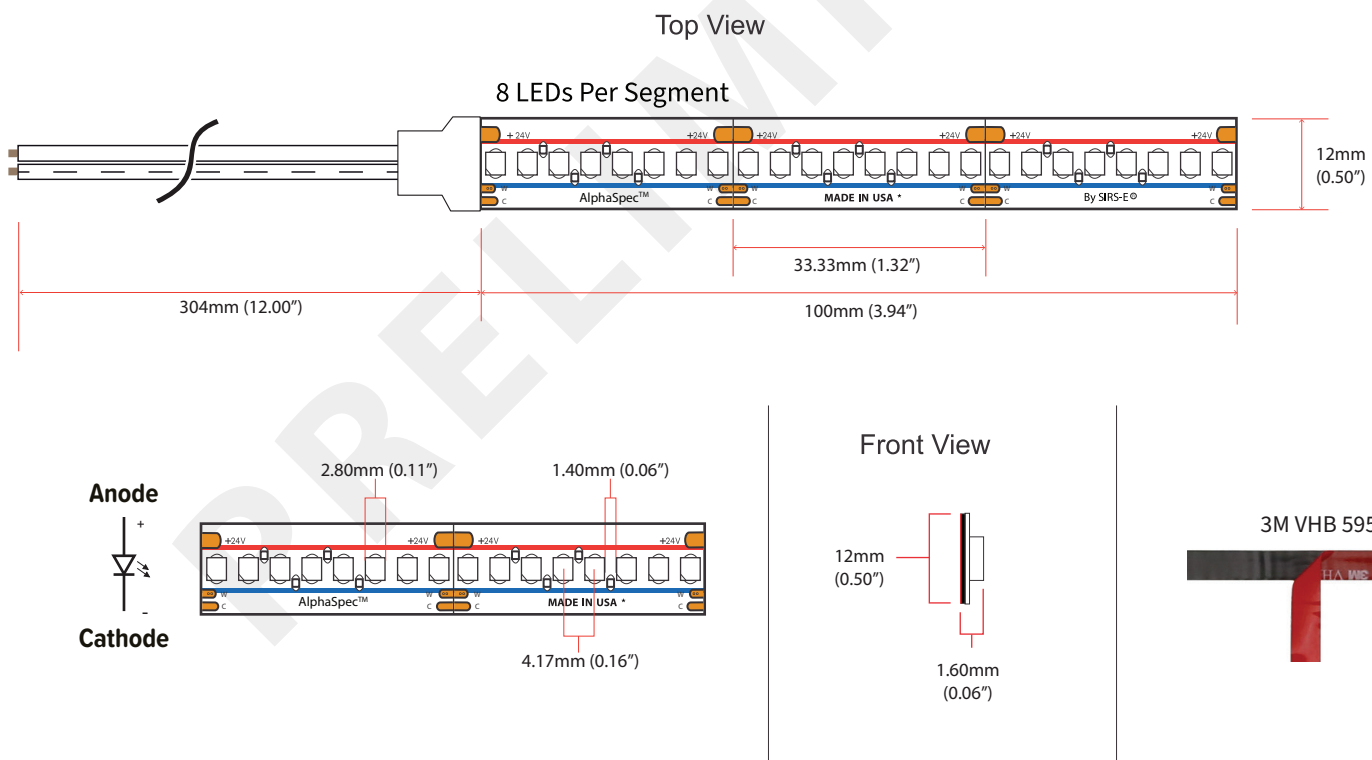
Product Engineering & Design	USA
Assembled	USA
Quality Control	USA
Product Customization	USA
Technical Support	USA

*Designed and manufactured in the USA using global LED chips and PCB boards.

Notes: ⁴IP - Varies on environment application, indoor or outdoor

***BAA/BABA Compliance:** Made in the USA through domestic assembly using globally sourced PCB boards and LED chips. Final qualification for BAA/BABA is subject to an approved nonavailability exemption for these imported components (*as of March 2025, no domestically produced equivalents are available*).

Mechanical Dimensions



Accessories Compatible

This list shows our most compatible accessories for this product. For the full selection, please visit our website.



MeanWell LED
Power Supply
90 Watts 24
Volts 90-264VAC



SCAN OR CLICK
QR CODE



Magnitude
24V PSU



SCAN OR CLICK
QR CODE



Nicolaudio
STICK-DE3 Wall
Mount LED Lighting
Controller



SCAN OR CLICK
QR CODE



RGBW 4 Channel
High Power LED
DMX Controller



SCAN OR CLICK
QR CODE



LTech UB2 Tunable
White (CCT) DMX Wall
Mount with Bluetooth



SCAN OR CLICK
QR CODE



RGB / RGBW LED
DMX RDM Decoder
5 Channels



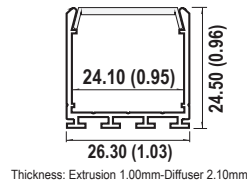
SCAN OR CLICK
QR CODE

Compatible LED Aluminum Extrusions

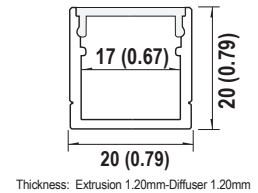
SIRS-E® Mount Aluminum Extrusions for smooth, sleek mounting for the AlphaSpec™ Tunable White. Select an Extrusion that fits your LED strip, matches your space requirements and aesthetic preference.



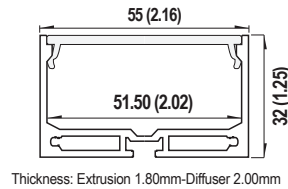
SIRS-E® SF-RS2403
Surface Mount
Aluminum Extrusion



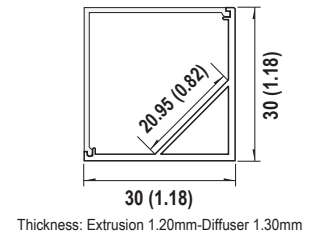
SIRS-E® SF-RS2020S
Surface Mount
Aluminum Extrusion



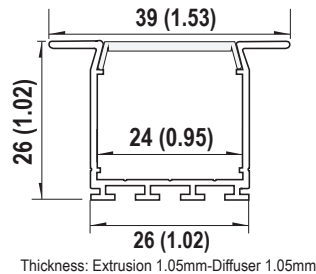
SIRS-E® SE-SP5532
Surface Mount
Aluminum Extrusion



SIRS-E® CR-3030S
Corner Mount
Aluminum Extrusion



SIRS-E® SE-RS2404
Recessed Mount
Aluminum Extrusion



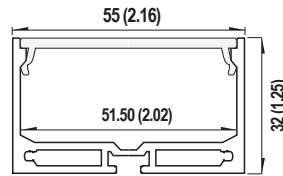
For our full selection of aluminum extrusions, please scan or click the QR code.



Compatible LED Aluminum Extrusions



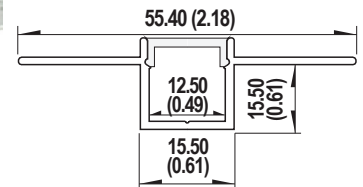
SIRS-E® SE-SP5532
Surface Mount
Aluminum Extrusion



Thickness: Extrusion 1.80mm-Diffuser 2.00mm



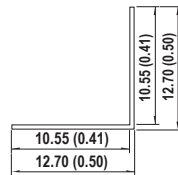
SIRS-E® SE-DW5615
Plaster-In Drywall
Mount Aluminum
Extrusion



Thickness: Extrusion 1.50mm-Diffuser 1.50mm



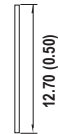
SIRS-E® SE-AB1212
Aluminum Angle Bar



Thickness: Extrusion 1.59mm (1/16 in.)



SIRS-E® SE-FB12
Aluminum Flat Bar



Thickness: Extrusion 1.59mm (1/16 in.)

For our full selection of
aluminum extrusions,
please scan or click the
QR code.

