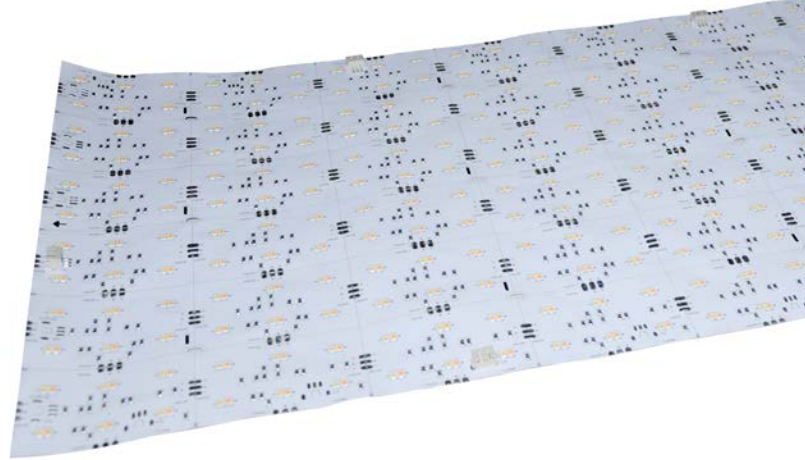


LUXFLEX™

TUNABLE WHITE Indoor Series

TUNABLE SHEET BACKLIGHT

Get the shade of white that you need for your next backlighting project with **LUXFLEX™ Tunable White LED Flexible Sheets**. This backlight outshines its competitors and allows for great flexibility in size, shape, and color temperature. Designers can now be selective about brightness and energy-efficiency with three readily available power options including: low, medium, and high power.



KEY FEATURES



**2400K-6500K
WIDE COLOR
TUNING**



**OPTIMAL COLOR
RENDERING**



**WIDE BEAM
ANGLE**



**EVEN
ILLUMINATION**



**FLEXIBLE
PCB BOARD**



**TILE SHEETS
FOR GREATER
COVERAGE**



CUTTABLE



**CUSTOM IP
RATING & POWER
AVAILABLE**



LIGHTWEIGHT



**AREA
ILLUMINATION**



**CROSSWIRED
CUT SECTIONS
ILLUMINATE**



**EASY
CONNECTIVITY**

With LUXFLEX Tunable White, you can now pick the power and lumen performance that best meets your project needs!

QUICK REFERENCE DATA TABLE
FLIP TO PAGE 3 FOR COMPLETE TABLE

SHEET TYPE	CCT	LUMINOUS FLUX	POWER
		lm/sq. ft.	W/sq. ft
HIGH POWER 30W SHEET	6500K	708.5	7.5
	2400K	655.5	7.5
	4100K	1364	15
MEDIUM POWER 18W SHEET	6500K	425	4.5
	2400K	393	4.5
	4100K	818	9
LOW POWER 12W SHEET	6500K	283.5	3
	2400K	262	3
	4100K	545.5	6

ASSURED QUALITY



E477011



100% QC



**LIMITED
WARRANTY**





PROJECT NAME/NO.	PART NUMBER
SPECIFIED BY	NOTE

LUXFLEX™

TUNABLE WHITE

Indoor Series

MECHANICAL

PARAMETERS

LED Type SMD 2835

LED Count 576 LEDs/sheet • 12 LEDs/section

LED Sheet Dimensions 12" x 24" (304.8mm x 609.6mm).

Full sheets and cut pieces may be tiled together for maximum backlighting coverage.

LED Pitch 1" (25.4mm)

LED Sheet Thickness

- Sheet only: 0.02" (0.51mm)
- LED height: 0.04" (1mm)
- Connector height: 0.26" (6.6mm)

LED Node Size 2835

Sheet Weight 4.4 oz (0.13 kg)

CONSTRUCTION & BASE MATERIAL

Substrate Material Flexible PET

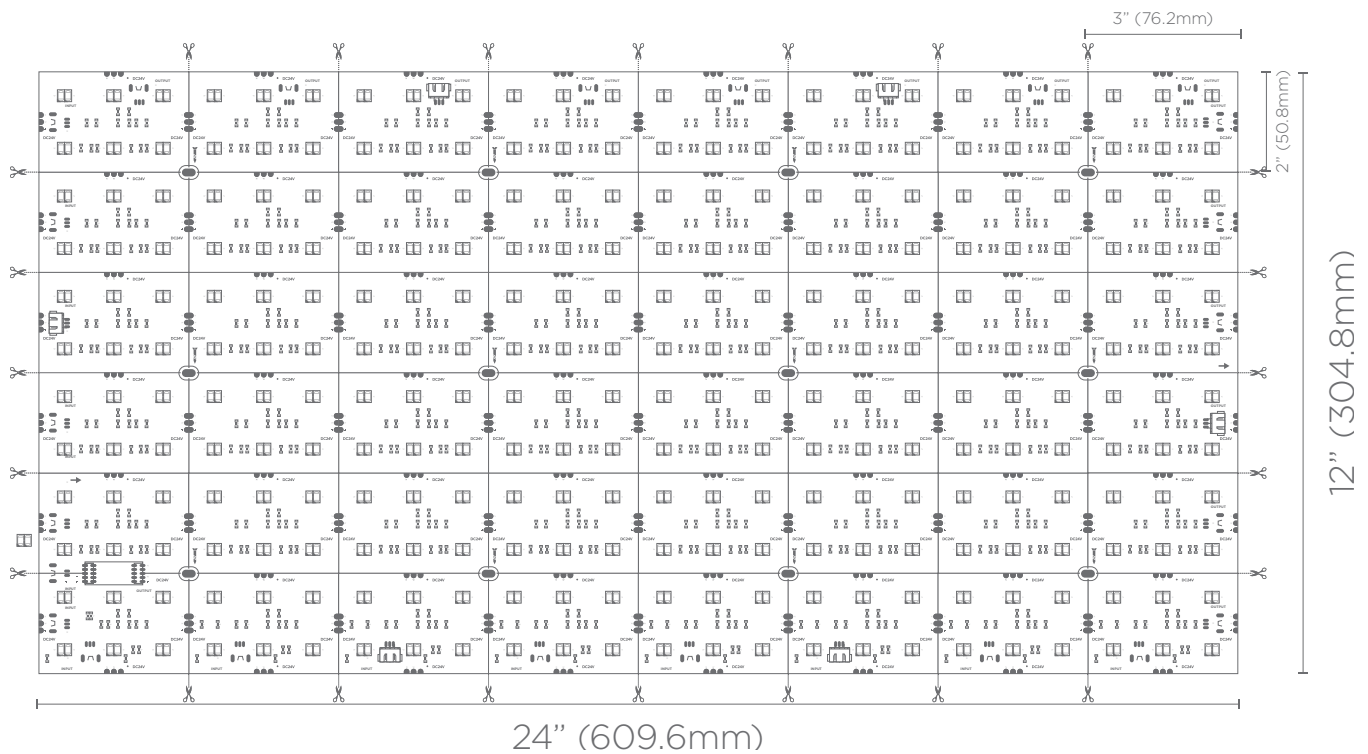
Flammability Rated UL 94 V-0

Metal Material Rolled copper for PCB flexibility

COMPLIANCE & REGULATORY APPROVAL

UL E477011 • cUL E477011 • RoHs • CE • Lead Free • Warranty 5 years

SHEET CUTTING DIAGRAM



LED SIZE	OPERATING VOLTAGE	PITCH center-to-center	DIMENSIONS cut section	CONNECTOR HEIGHT	# LEDs per cut section
2835	24V	1" (25.5mm)	2" x 3" x 0.02" (50.8mm x 76.2mm x 0.51mm)	0.269" (6.6mm)	12

PROJECT NAME/NO.	PART NUMBER
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LUXFLEX™

TUNABLE WHITE Indoor Series

ELECTRICAL

PHOTOMETRICS

Wide Beam Angle 120°

Lamp Life 54,000+ hours

Color Rendering Index 90+

Color Tuning 2400K - 6500K

Efficacy (2400K - 6500K) ranges from 87.4-94.5 lm/W

COMPATIBLE CONTROL

- Pulse-width modulation dimming (PWM)
- DMX Control

POWER SUPPLY

Input Voltage 24VDC constant voltage

Wire Size 20 AWG 3 Wire

Please Use Only with Class 2 Power Supply

No. of Standard Connectors 6

Connector Type Molex®

SAFETY DISCLOSURES

Electric Code Compliance Please make sure to install LUXFLEX in accordance with standard national and local electrical codes.

Outdoor Usage LUXFLEX is designed for indoor use only and is not suitable for outdoor applications. To customize for damp and outdoor locations, please reach out to our team for more information.










Electrical Connectors LUXFLEX allows for up to 6 connections on a single uncut sheet. Please pay close attention to the polarity (+/-) of the Molex® connectors to successfully illuminate LUXFLEX.

Actual Product Color May Vary Please note that the product color as seen in this specification sheet, photography, and related marketing material for this product may vary slightly from your actual customized product due to photographic and design limitations.

Specifications are Subject to Change Without Notice While we try to make every effort to inform customers of updates to our products, we reserve the right to make modifications and improvements to our fixture specifications and designs without advance notice.

Manufacturer is Not Liable for Matching Fixtures to Pre-Existing Fixture Installations We cannot guarantee matching the CCT appearance, product design, or lumen output for pre-installed fixtures or reorders.

PHOTOMETRIC DATA TABLES

SHEET TYPE	CCT	LUMINOUS FLUX			POWER		
		lm/sq. ft.	lm/sheet	lm/2" x 3" section	W/sq. ft	W/sheet	W/2" x 3" section
HIGH POWER 30W SHEET	 6500K Cool White	708.5	1417	29.5	7.5	15	0.3
	 2400K Deep Warm White	655.5	1311	27.3	7.5	15	0.3
	 4100K Neutral White	1364	2728	56.8	15	30	0.6
MEDIUM POWER 18W SHEET	 6500K Cool White	425	850	17.7	4.5	9	0.2
	 2400K Deep Warm White	393	786	16.4	4.5	9	0.2
	 4100K Neutral White	818	1636	34.1	9	18	0.4
LOW POWER 12W SHEET	 6500K Cool White	283.5	567	11.8	3	6	0.1
	 2400K Deep Warm White	262	524	10.9	3	6	0.1
	 4100K Neutral White	545.5	1091	71	6	12	0.3

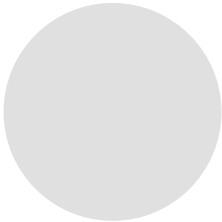
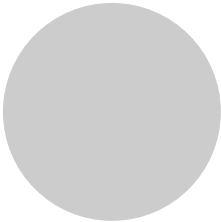
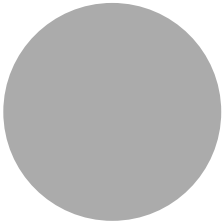
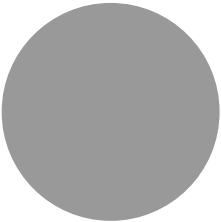
PROJECT NAME/NO.	PART NUMBER
SPECIFIED BY	NOTE

LUXFLEX™

TUNABLE WHITE Indoor Series



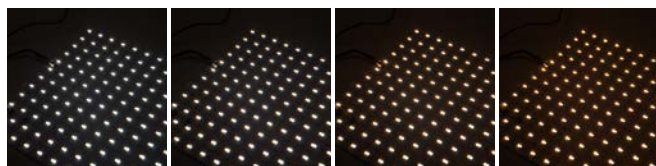
To Avoid Hotspots, Plan Your Setoff (Airgap) Depth To prevent hotspots, we recommend installing LUXFLEX with a setoff or airgap anywhere from 1-4" away from your diffuser or face material. This setoff or airgap depth will vary depending on the nature of your diffuser or illuminated surface. Review the table below for general guidelines to follow during installation.

OPACITY				
OPACITY PERCENTAGE	<12%	15% - 20%	20% - 35%	>35%
MINIMUM SET OFF DEPTH	4"	2.5"	1.5"	1"
EXAMPLE MATERIALS	<ul style="list-style-type: none"> 1/16" PC diffuser White fabric 	1/16" Acrylic diffuser	1/8" Acrylic diffuser	<ul style="list-style-type: none"> Dark/color print on vinyl/fabric Mosaic, stone

PLEASE NOTE THAT MOCKUPS ARE HIGHLY RECOMMENDED TO CONFIRM DESIRED RESULTS.

APPLICATIONS

- Architectural Indoor & Outdoor Entrance Facade
- Luminous Ceilings & Walls
- Indoor Ad Signage
- Outdoor Ad Signage
- Backlighting
- Architectural Lighting
- Curved Applications
- Compact, Space-Sensitive Applications
- Retail Applications
- ...And Many More!



PROJECT NAME/NO.	PART NUMBER
SPECIFIED BY	NOTE

LUXFLEX™

TUNABLE WHITE Indoor Series

INSTALLATION

Field Cuttable LUXFLEX is fully field cuttable and may be cut horizontally or vertically along the designated cutting lines. The smallest piece that may be cut measures 2" x 3" or 50.8mm x 76.2mm. LUXFLEX is fully adaptable for backlighting applications of many sizes and shapes.

Environment Indoor location safe only. For best performance, avoid mounting LUXFLEX LED sheets in direct sunlight, near direct water contact, or by surfaces subject to puddling caused by rainfall or sprinkler sprays. For Fabric Light Box applications powered by LUXFLEX LED sheets, our craftsmen make every effort to customize and assemble your lighting solution. Even so, dust, debris, water, or moisture may still creep into the adjoining pieces over time.

Custom IP Ratings Available for Outdoor & Damp Locations Please reach out to our team for applications requiring damp location or outdoor safe treatment.

Customizable Wattage Available Please reach out to our team for applications requiring specific wattage requests.

Operating Temperature -13°F ~ +140°F (-20°C ~ +60°C)

Ambient Temperature -13°F ~ +158°F (-25°C ~ +70°C)

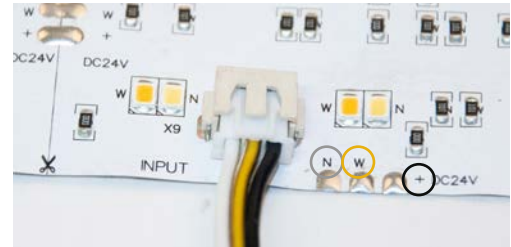
Mounting May be mounted with 3M adhesives or with standard screws. All LUXFLEX sheets feature 3M adhesive on the reverse side of the sheet and 9 holes per sheet for mounting with screws.

Heat Sink Not required for installation. LUXFLEX illuminates spaces with reduced thermal consumption and output, which makes it perfect for placement behind a diffuser in a compact space.

Tiling Multiple Sheets Each LUXFLEX sheet is designed for tiling multiple full and partial sheets in a series and connecting them to one another. To tile LUXFLEX, identify the female Molex® connector and match the polarity of the connecting wire according to the polarity indicated next to the sheet connector. White wire is negative for Neutral White, Yellow wire is negative for Warm White, and Black wire is positive. The front of the male Molex connector, indicated in the images below, must always be facing up when inserting the wire into the connector. LEDs will immediately light up if the wiring is correct.

Curved Applications LUXFLEX may be flexed for curved or radius applications to best fit your environment.

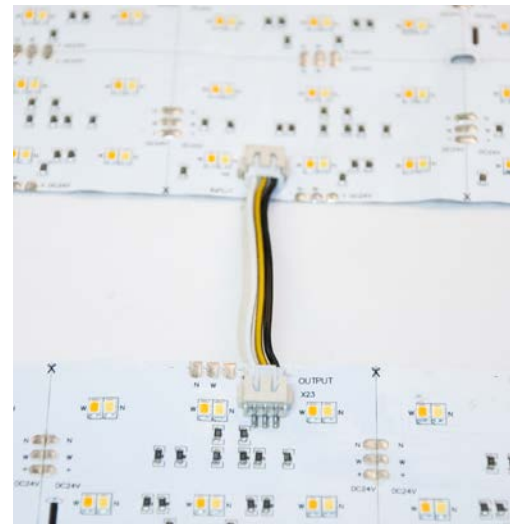
WIRING THE MOLEX® CONNECTOR



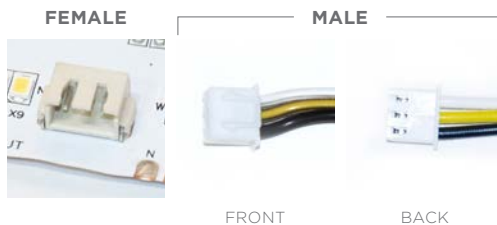
Make sure that the order of the colored wires corresponds to the order of the letters near the Molex® connector.

N	NEUTRAL WHITE WIRE
W	WARM WHITE WIRE
+	BLACK WIRE

TILING LUXFLEX SHEETS OR PIECES



MOLEX® CONNECTOR



TILING CONNECTOR (MOLEX)



TILING CONNECTOR (HARDWIRE)



Current @ Compatible



- Energy Savings
- Versatile
- Scalable
- Outdoor Rated
- Wired, Wireless or Hybrid

Contact us to inquire about other compatible controls

LIMITLESS TILING = ENDLESS CREATIVITY

PROJECT NAME/NO.	PART NUMBER
SPECIFIED BY	NOTE

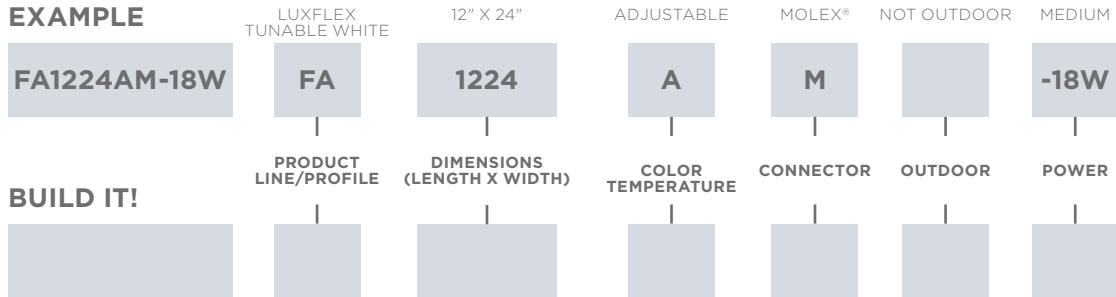
LUXFLEX™



TUNABLE WHITE Indoor Series

LUXFLEX™ TUNABLE WHITE PART NUMBER

EXAMPLE



PRODUCT LINE

FA LUXFLEX™ TUNABLE WHITE

DIMENSIONS (IN INCHES)

LLWW LENGTH (VARIES)

COLOR TEMPERATURE

A ADJUSTABLE WHITE (2700K-6500K)

CONNECTOR

B DC BARREL JACK

M MOLEX®

H HARDWIRE

OUTDOOR (OPTIONAL)

O OUTDOOR

POWER

-12W LOW POWER (12W)

-18W MEDIUM POWER (18W)

-30W HIGH POWER (30W)

-xxW CUSTOM WATTAGE

PROJECT NAME/NO.	PART NUMBER
SPECIFIED BY	NOTE