#### **Product Selector Guide - Specialty Lighting - 12V LEDs**

		TresMate <sup>™</sup> - 5mm Flex		TresMate <sup>™</sup> - 8mm	TresMate <sup>™</sup> - 10mm
	12V Solo Non-Flex	12V Solo Flex	12V	12V - Silicone	12V - RGB
Applications-					
Edge-lit	<ul> <li>✓</li> </ul>				1
Speciality / Embedded	~	<ul> <li>✓</li> </ul>	<b>v</b>	<b>v</b>	<ul> <li>✓</li> </ul>
Specifications-					
Voltage	12V	12V	12V	12V	12V
Circuit Length	.67"	.67"	2"	1"	2"
Advantages-					
Easy to Vary Intensity		<ul> <li>✓</li> </ul>	<b>v</b>	<b>v</b>	<b>v</b>
Solderless Connection	<ul> <li>✓</li> </ul>	<b>~</b>	<		<b>v</b>
Shallow edgelit box	~				
In stock inventory item	<b>v</b>	<ul> <li>✓</li> </ul>	~	<ul> <li>Image: A start of the start of</li></ul>	✓
Flex to coutour shapes		<b>~</b>			
Outdoor applications				<b>v</b>	
No heat sink needed	<b>v</b>	<ul> <li>✓</li> </ul>	~	✓	✓
Disadvantages-					
Lead time for custom	<b>v</b>	<ul> <li>✓</li> </ul>	✓	✓	<b>v</b>
Less bright than 24V equivalent	<b>v</b>	<ul> <li>✓</li> </ul>	✓	✓	<b>v</b>
Labor instense to build light panel	~				
Limited run of LEDs	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>

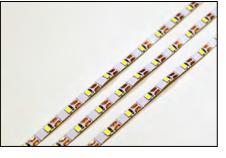


LIGHTBOARD TECHNOLOGIES





### TresMate™ LEDs – Non-flex Solos







### What it is used for

Specialty Lighting (e.g., acrylic letters, under-counter lighting)

### How to use it

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LED strips can be provided on reels or in pre-measured & cut strips. Crimp-on wire leads simplifies installation with a secure solder-less application. Installation should be completed on a metal surface that can act as a heat sink if using more than 1 row of lights in any application.



### Specifications per application

Max length of LED strip	Maximum: 60"	Do not exceed from single connection point
Standard reel	16.4'	Can be cut in .67" sections
Heat sink requirements	5 sq. inches per watt	Minimum heat sink recommended to maximize the life of LEDs
Connectors	TresMate™ crimp-on or solder-on	TresMate™ solder-less crimp-on connector with 39" wire extension or with 72" barrel connector
Light intensity & color temperature	250 lumens/ft. 6500K	Custom light intensity & color temperatures are available



## Pros & Cons

#### Pros

- Uniform illumination
- Secure, solder-less connections
- Easy installation
- Custom sizes and configurations available
- 2-year limited warranty Cut in .67" lengths

- Needs a heat sink if using more than 1 row of lights
- Less bright





## What it is used for

Specialty Lighting (e.g., acrylic letters, under-counter lighting)

### How to use it

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Heat sink requirements	5 sq. inches per watt	Minimum heat sink recommended to maximize the life of LEDs
Connectors	TresMate™ crimp-on or solder-on	TresMate™ solder-less crimp-on connector with 39" wire extension or with 72" barrel connector
Light intensity & color temperature	250 lumens/ft. 6500K	Custom light intensity & color temperatures are available



Pros & Cons

#### Pros

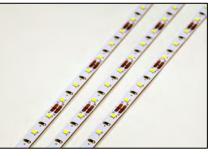
Cons

- Uniform illumination
- Secure, solder-less connections
- Easy installation
- Flex design allows strips to bend up to 90°
- Custom sizes and configurations available
- 2-year limited warranty
- Cut in .67" lengths

#### Needs a heat sink if using more than 1 row of lights

Less bright









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What it is used for

Specialty Lighting (e.g., under-counter lighting)

## 🚶 How to use it

LIGHTBOARD

LED strips can be provided on reels or in pre-measured & cut strips. Crimp-on wire leads simplifies installation with a secure solder-less application. Installation should be completed on a metal surface that can act as a heat sink.



## Specifications per application

Max length of LED strip	Maximum: 60"	Do not exceed from single connection point
Standard reel	16.4'	Can be cut in 2" sections. Constant voltage.
Heat sink requirements	5 sq. inches per watt	Minimum heat sink recommended to maximize the life of LEDs
Connectors	TresMate™ crimp-on or solder-on	TresMate™ solder-less crimp-on connector with 39" wire extension or with 72" barrel connector
Light intensity & color temperature	400 lumens/ft. 3500K	Custom light intensity & color temperatures are available



## Pros & Cons

#### Pros

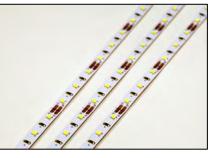
- Uniform illumination
- Moderate brightness
- Secure, solder-less connections
- Easy installation
- Custom sizes and configurations available
- 2-year limited warranty

#### Cons

- Needs a heat sink
- Too wide for most edge lighting applications

### Specialty Lighting







Specialty Lighting



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What it is used for

Specialty Lighting (e.g., under-counter lighting)

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### How to use it

LIGHTBOARD

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LED strips can be provided on reels or in pre-measured & cut strips. Crimp-on wire leads simplifies installation with a secure solder-less application. Installation should be completed on a metal surface that can act as a heat sink.



### Specifications per application

Max length of LED strip	Maximum: 60"	Do not exceed from single connection point
Standard reel	16.4'	Can be cut in 2" sections. Constant voltage.
Heat sink requirements	5 sq. inches per watt	Minimum heat sink recommended to maximize the life of LEDs
Connectors	TresMate™ crimp-on or solder-on	TresMate™ solder-less crimp-on connector with 39" wire extension or with 72" barrel connector
Light intensity & color temperature	400 lumens/ft. 6500K	Custom light intensity & color temperatures are available



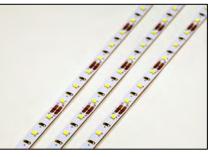
### Pros & Cons

#### Pros

- Uniform illumination
- Moderate brightness
- Secure, solder-less connections
- Easy installation
- Custom sizes and configurations available
- 2-year limited warranty

- Needs a heat sink
- Too wide for most edge lighting applications







Specialty Lighting



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What it is used for

Specialty Lighting (e.g., under-counter lighting)

### How to use it

LIGHTBOARD

LED strips can be provided on reels or in pre-measured & cut strips. Crimp-on wire leads simplifies installation with a secure solder-less application. Installation should be completed on a metal surface that can act as a heat sink.



### Specifications per application

Max length of LED strip	Maximum: 60"	Do not exceed from single connection point
Standard reel	16.4'	Can be cut in 2" sections. Constant voltage.
Heat sink requirements	5 sq. inches per watt	Minimum heat sink recommended to maximize the life of LEDs
Connectors	TresMate™ crimp-on or solder-on	TresMate™ solder-less crimp-on connector with 39" wire extension or with 72" barrel connector
Light intensity & color temperature	400 lumens/ft. 7500K	Custom light intensity & color temperatures are available



### Pros & Cons

#### Pros

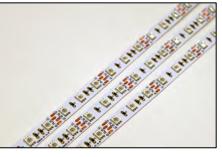
- Uniform illumination
- Moderate brightness
- Secure, solder-less connections
- Easy installation
- Custom sizes and configurations available
- 2-year limited warranty

- Needs a heat sink
- Too wide for most edge lighting applications





### TresMate™ LED 10mm RGB Strips







### What it is used for

Specialty Lighting (e.g., applications where color is desired)

## How to use it

LED strips can be packaged on reels or provided in pre-measured & cut strips. Crimp-on wire leads simplifies installation with a solder-less application. These LEDs are for lighting for special applications and when a certain color is needed (RGB).



## Specifications per application

Under counter and highlight lighting (colors)	10mm - RGB	Controller needed for RGB applications
Maximum length run of LEDs	Maximum: 60"	Voltage drop begins to occur, so need to add additional power source to exceed maximum.
Crimp-on connectors	Solder-less application	Utilize crimping tool to fasten wire leads via secure 4-pin mechanical connection
Standard Color	RGB	Multiple colors and patterns can be produced with controller



#### Pros

#### Cons

- Multi color applications
- Secure, solder-less connections
- Easy installation
- Custom sizes and configurations available
- 2-year limited warranty

Controller needed





### TresMate™ LED Silicone Strips (120 LEDs/M)







### What it is used for

Specialty Lighting (e.g., under-counter lighting)

## 🚶 How to use it

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LED strips can be packaged on reels or provided in pre-measured & cut strips. Silicone protective cover allows for a variety of applications, including outdoor installation.



### Specifications per application

Length of maximum run	Maximum: 84"	Exceeding maximum run may cause voltage drop
Outdoor applications	Silicone protector and barrel connector	Pre-wired with barrel & silicone cover for wet applications
Light intensity & color temperature	275 lumens/ft. 6500K	Custom light intensity & color temperatures are available



#### Pros

- Uniform illumination
- Silicone cover for outdoor applications
- Includes male barrel connector
- Easy installation
- Custom sizes and configurations available
- 2-year limited warranty

- Too wide for most edge lighting applications
- Custom order

### **Product Selector Guide - Specialty Lighting - 24V LEDs**

	TresMate™- 8mm 24V	TresMate™- 10mm 24V 120 LEDs/M (10W/M)	TresMate™- 10mm 24V 120 LEDs/M (14W/M)
Applications-			
Speciality / Embedded	<b>v</b>	v .	✓ ✓
Specifications-			
Voltage	24V	24V	24V
Circuit Length	2"	2"	2"
Advantages-			<u></u>
Easy to Vary Intensity	✓	<ul> <li>✓</li> </ul>	✓ ✓
Solderless Connection	<b>v</b>	v v	✓ ✓
Under Shelf Lighting	✓	<ul> <li>✓</li> </ul>	✓
In stock inventory item	<b>v</b>	v v	✓
Low cost	✓	✓	✓
No heat sink needed		✓ ✓	
Disadvantages-			
Lead time for custom	✓	✓	✓
Less brightness	<ul> <li>✓</li> </ul>	✓	✓

\*\*\*\* FourStarLED A LIGHTBOARD Company







### TresMate™ LED 8mm Strips (120 LEDs/M)







### What it is used for

Specialty Lighting (e.g., under-counter lighting)

### How to use it

LIGHTBOARD

LED strips can be provided on reels or in pre-measured & cut strips. Crimp-on wire leads simplifies installation with a secure solder-less application. Installation should be completed on a metal surface that can act as a heat sink if using more than 1 row of lights in any application.



### Specifications per application

Max length of LED strip	Maximum: 96"	Do not exceed from single connection point
Standard reel	16.4'	Can be cut in 2" sections.
Heat sink requirements	5 sq. inches per watt	Minimum heat sink recommended to maximize the life of LEDs
Connectors	TresMate™ crimp-on or solder-on	TresMate™ solder-less crimp-on connector with 39" wire extension or with 72" barrel connector
Light intensity & color temperature	375 lumens/ft. 5000K	Custom light intensity & color temperatures are available



### Pros & Cons

#### Pros

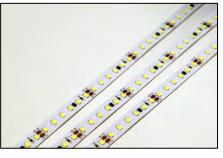
- Uniform illumination
- Secure, solder-less connections
- Easy installation
- Custom sizes and configurations available
- 2-year limited warranty
- 2" circuit length

- Needs a heat sink
- Too wide for most edge lighting applications





### TresMate™ LED 10mm Strips (120 LEDs/M)







What it is used for

Specialty Lighting (e.g., under-counter lighting)

## How to use it

LED strips can be provided on reels or in pre-measured & cut strips. Crimp-on wire leads simplifies installation with a secure solder-less application. Installation should be completed on a metal surface that can act as a heat sink.



## Specifications per application

Max length of LED strip	Maximum: 96"	Do not exceed from single connection point
Standard reel	16.4'	Can be cut in 2″ sections.
Heat sink requirements	5 sq. inches per watt	Minimum heat sink recommended to maximize the life of LEDs
Connectors	TresMate™ crimp-on or solder-on	TresMate™ solder-less crimp-on connector with 39" wire extension or with 72" barrel connector
Light intensity & color temperature	400 lumens/ft. 6500K	Custom light intensity & color temperatures are available



## Pros & Cons

#### Pros

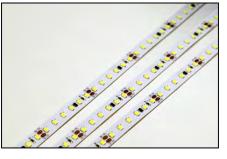
- Uniform illumination
- Secure, solder-less connections
- Easy installation
- Custom sizes and configurations available
- 2-year limited warranty
- 2" Circuit length

- Needs a heat sink
- Too wide for most edge lighting applications





### TresMate™ LED 10mm Strips (120 LEDs/M)







### What it is used for

Specialty Lighting (e.g., under-counter lighting)

## How to use it

LIGHTBOARD

LED strips can be packaged on reels or provided in pre-measured & cut strips. Crimp-on wire leads simplifies installation with a secure solder-less application. Installation should be completed on a metal surface that can act as a heat sink.



### Specifications per application

Max length of LED strip	Maximum: 96"	Do not exceed from single connection point
Standard reel	16.4'	Can be cut in 2″ sections.
Heat sink requirements	5 sq. inches per watt	Minimum heat sink recommended to maximize the life of LEDs
Connectors	TresMate™ crimp-on or solder-on	TresMate™ solder-less crimp-on connector with 39" wire extension or with 72" barrel connector
Light intensity & color temperature	450 lumens/ft. 6500K	Custom light intensity & color temperatures are available



## Pros & Cons

#### Pros

- Uniform illumination
- Secure, solder-less connections
- Easy installation
- Custom sizes and configurations available
- 2-year limited warranty
- 2" circuit length

- Needs a heat sink
- Too wide for most edge lighting applications