

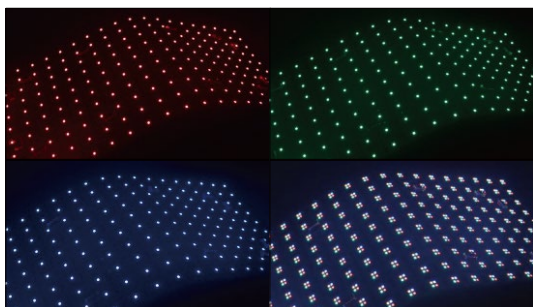


FLEX LED STRIP SHEETS SPECIFICATION

Single White / Tunable White / RGBW / SPI



Note: LEDYI may change product specifications and installation guidance without prior notice.



FEATURES

- 24 VDC input
- 90+ CRI
- Single white / tunable white / RGBW options
- Highly adaptable design accommodates virtually any application
- LED lifetime of 50,000 hours (L70)
- 3M adhesive backing
- Operating temperature of -4°-113° F (-20°-45° C)
- IP20 environmental rating

APPLICATIONS

Some common applications include sign lighting, bias lighting, cove lighting, task lighting, backlighting, accent lighting, and under cabinet lighting.

Single White Parameters

Part NO.	Size	LED Type	LED Qty	LED Segment	Voltage	Power	CRI	CCT	Lumen (lm/Sheet)	Effi cacy (lm/w)
LY420-LS2835W27-24V-Ra90-11W	503.5 x 235mm	SMD2835	420LEDs/Sheet	1LED/Seg	24V	11W/Sheet	Ra>90	2700K	1012	92
LY420-LS2835W30-24V-Ra90-11W								3000K	1012	92
LY420-LS2835W40-24V-Ra90-11W								4000K	1144	104
LY420-LS2835W65-24V-Ra90-11W								6500K	1078	98
LY420-LS2835W27-24V-Ra90-22W	503.5 x 235mm	SMD2835	420LEDs/Sheet	1LED/Seg	24V	22W/Sheet	Ra>90	2700K	2024	92
LY420-LS2835W30-24V-Ra90-22W								3000K	2024	92
LY420-LS2835W40-24V-Ra90-22W								4000K	2288	104
LY420-LS2835W65-24V-Ra90-22W								6500K	2156	98
LY420-LS2835W27-24V-Ra90-33W	503.5 x 235mm	SMD2835	420LEDs/Sheet	1LED/Seg	24V	33W/Sheet	Ra>90	2700K	3036	92
LY420-LS2835W30-24V-Ra90-33W								3000K	3036	92
LY420-LS2835W40-24V-Ra90-33W								4000K	3432	104
LY420-LS2835W65-24V-Ra90-33W								6500K	3234	98

Tunable White Parameters

Part NO.	Size	LED Type	LED Qty	LED Segment	Voltage	Power	CRI	CCT	Lumen (lm/Sheet)	Effi cacy (lm/w)
LY840-LS2835TW2765-24V-Ra90-22W	503.5 x 235mm	SMD2835	840LEDs/Sheet	2LED/Seg	24V	22W/Sheet	Ra>90	2700K (ONLY)	1012	92
LY840-LS2835TW2765-24V-Ra90-22W								6500K (ONLY)	1078	98
LY840-LS2835TW2765-24V-Ra90-22W								2700K+6500K	2090	95
LY840-LS2835TW2765-24V-Ra90-44W	503.5 x 235mm	SMD2835	840LEDs/Sheet	2LED/Seg	24V	44W/Sheet	Ra>90	2700K (ONLY)	2024	92
LY840-LS2835TW2765-24V-Ra90-44W								6500K (ONLY)	2156	98
LY840-LS2835TW2765-24V-Ra90-44W								2700K+6500K	4180	95
LY840-LS2835TW2765-24V-Ra90-66W	503.5 x 235mm	SMD2835	840LEDs/Sheet	2LED/Seg	24V	66W/Sheet	Ra>90	2700K (ONLY)	3036	92
LY840-LS2835TW2765-24V-Ra90-66W								6500K (ONLY)	3234	98
LY840-LS2835TW2765-24V-Ra90-66W								2700K+6500K	6270	95

Note: Our tunable white LEDs utilize separate warm and cool white channels for color mixing.

3rd party controls must account for proportional balancing of the two channels.

Example: If Warm White = 100% ON then Cool White = OFF. If Warm White = 25% ON, the Cool White = 75% ON.

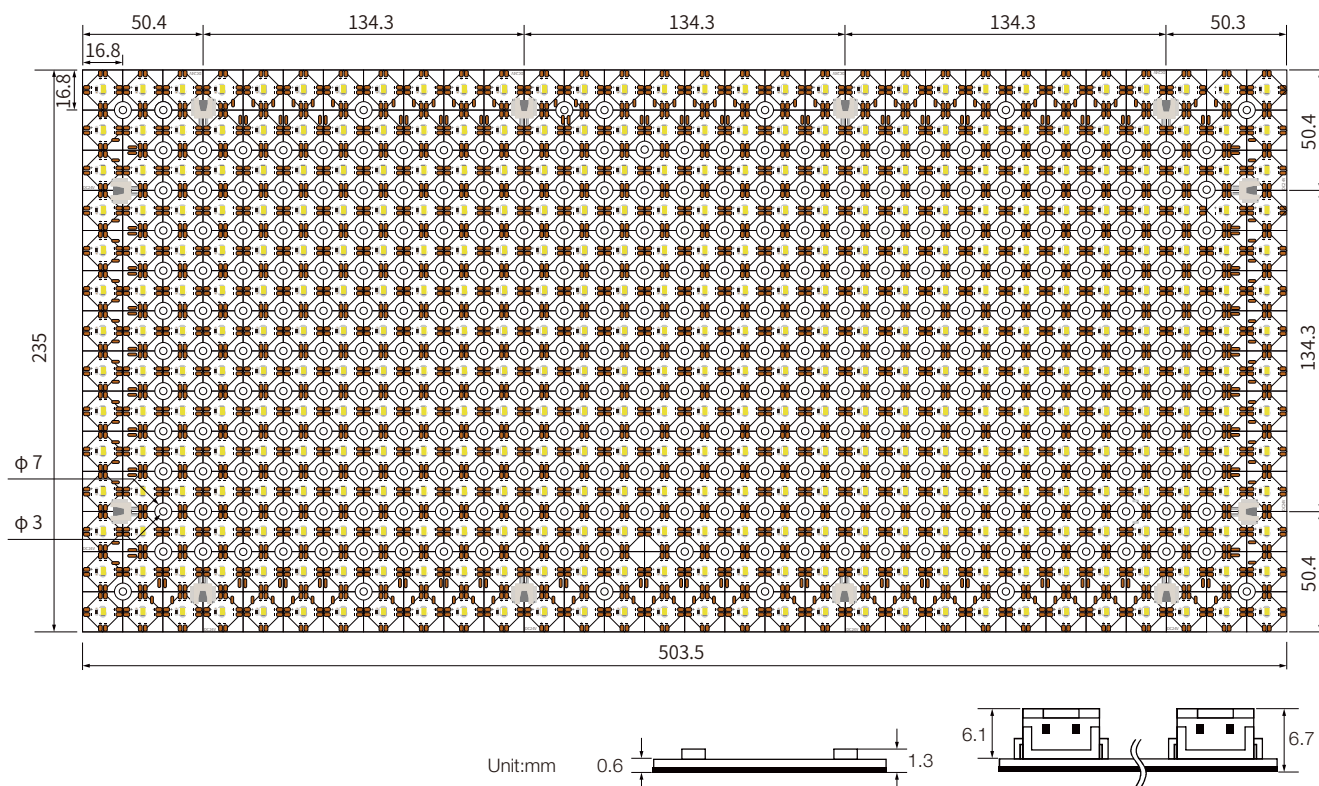
RGBW Parameters

Part NO.	Size	LED Type	LED Qty	LED Segment	Voltage	Power	CRI	CCT	Lumen (lm/Sheet)	Effi cacy (lm/w)
LY800-LS2835RGBW-24V-Ra90-11W	503.5 x 235mm	SMD2835	800LEDs/Sheet	4LED/Seg	24V	11W/Sheet	Ra>90	Red ONLY	55	20
LY800-LS2835RGBW-24V-Ra90-11W								Green ONLY	217	79
LY800-LS2835RGBW-24V-Ra90-11W								Blue ONLY	91	33
LY800-LS2835RGBW-24V-Ra90-11W								White ONLY	248	90
LY800-LS2835RGBW-24V-Ra90-11W								RGBW	605	55
LY800-LS2835RGBW-24V-Ra90-22W	503.5 x 235mm	SMD2835	800LEDs/Sheet	4LED/Seg	24V	22W/Sheet	Ra>90	Red ONLY	110	20
LY800-LS2835RGBW-24V-Ra90-22W								Green ONLY	435	79
LY800-LS2835RGBW-24V-Ra90-22W								Blue ONLY	182	33
LY800-LS2835RGBW-24V-Ra90-22W								White ONLY	495	90
LY800-LS2835RGBW-24V-Ra90-22W								RGBW	1210	55
LY800-LS2835RGBW-24V-Ra90-33W	503.5 x 235mm	SMD2835	800LEDs/Sheet	4LED/Seg	24V	33W/Sheet	Ra>90	Red ONLY	165	20
LY800-LS2835RGBW-24V-Ra90-33W								Green ONLY	652	79
LY800-LS2835RGBW-24V-Ra90-33W								Blue ONLY	272	33
LY800-LS2835RGBW-24V-Ra90-33W								White ONLY	743	90
LY800-LS2835RGBW-24V-Ra90-33W								RGBW	1815	55

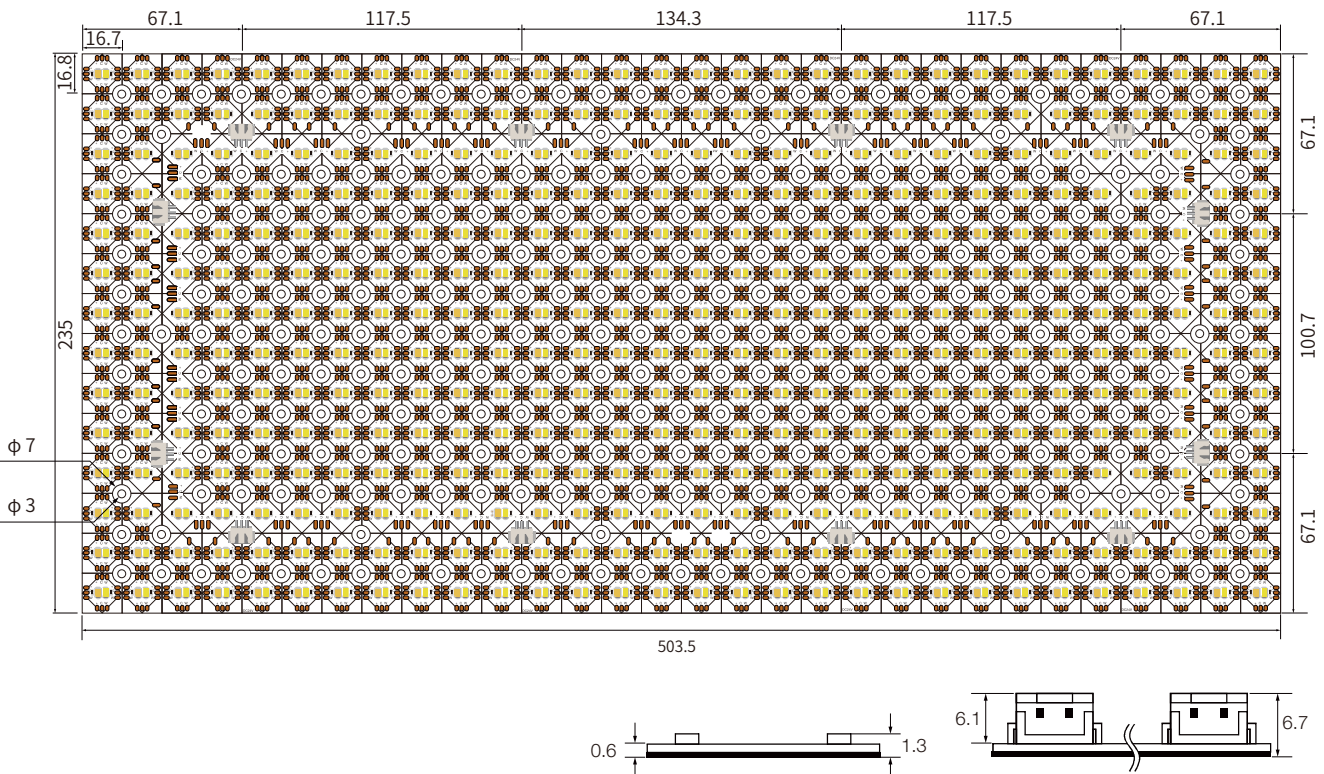
UCS2904 SPI RGBW Parameters

Part NO.	Size	LED Type	LED Qty	IC Type	Pixel	Voltage	Power	CRI	Lumen (lm/Sheet)	Efficacy (lm/w)
LY800-LS2835RGBW-24V-SPI-Ra90	503.5 x 235mm	SMD2835	800LEDs/Sheet	UCS2904	50Pixels/Sheet	24V	92W/Sheet	Ra>90	5060	55

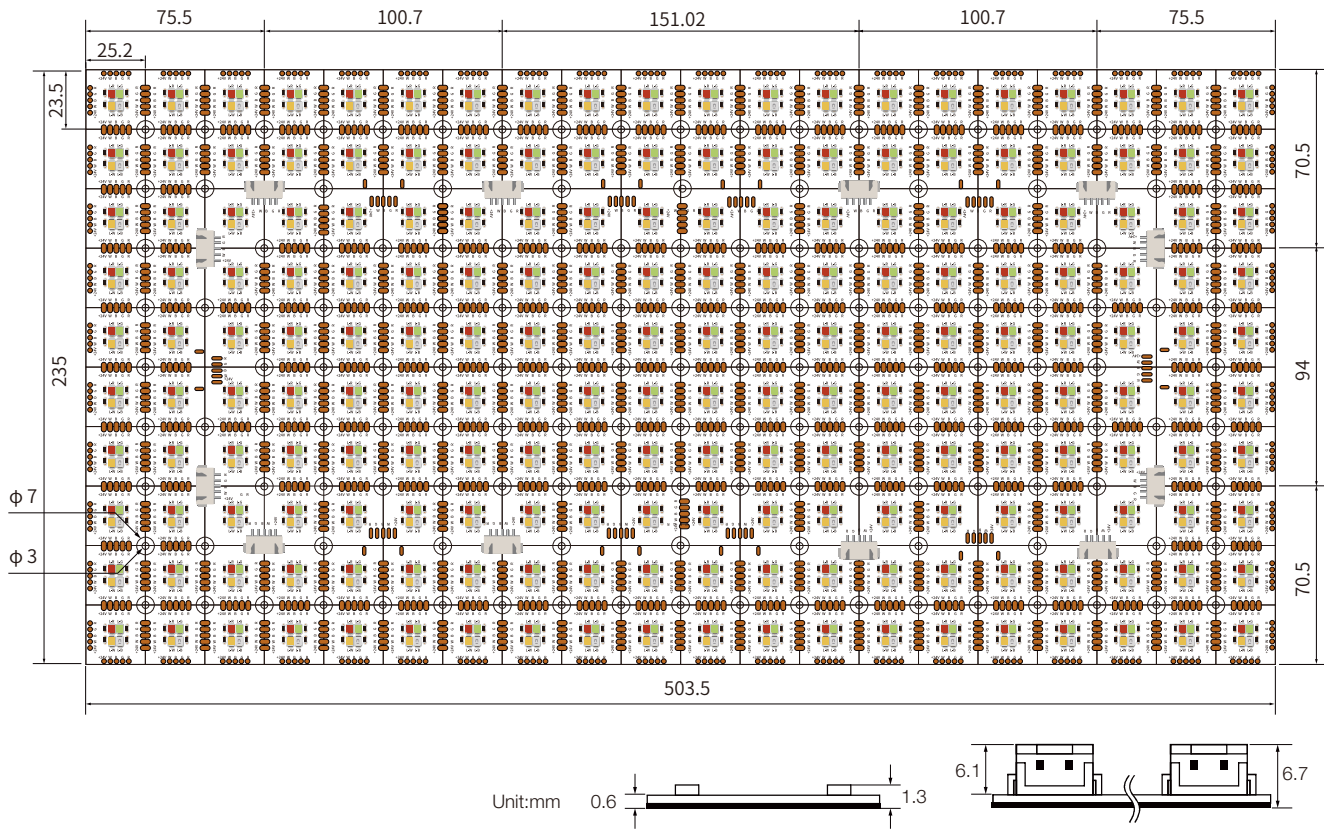
SINGLE WHITE DIMENSIONAL DRAWINGS



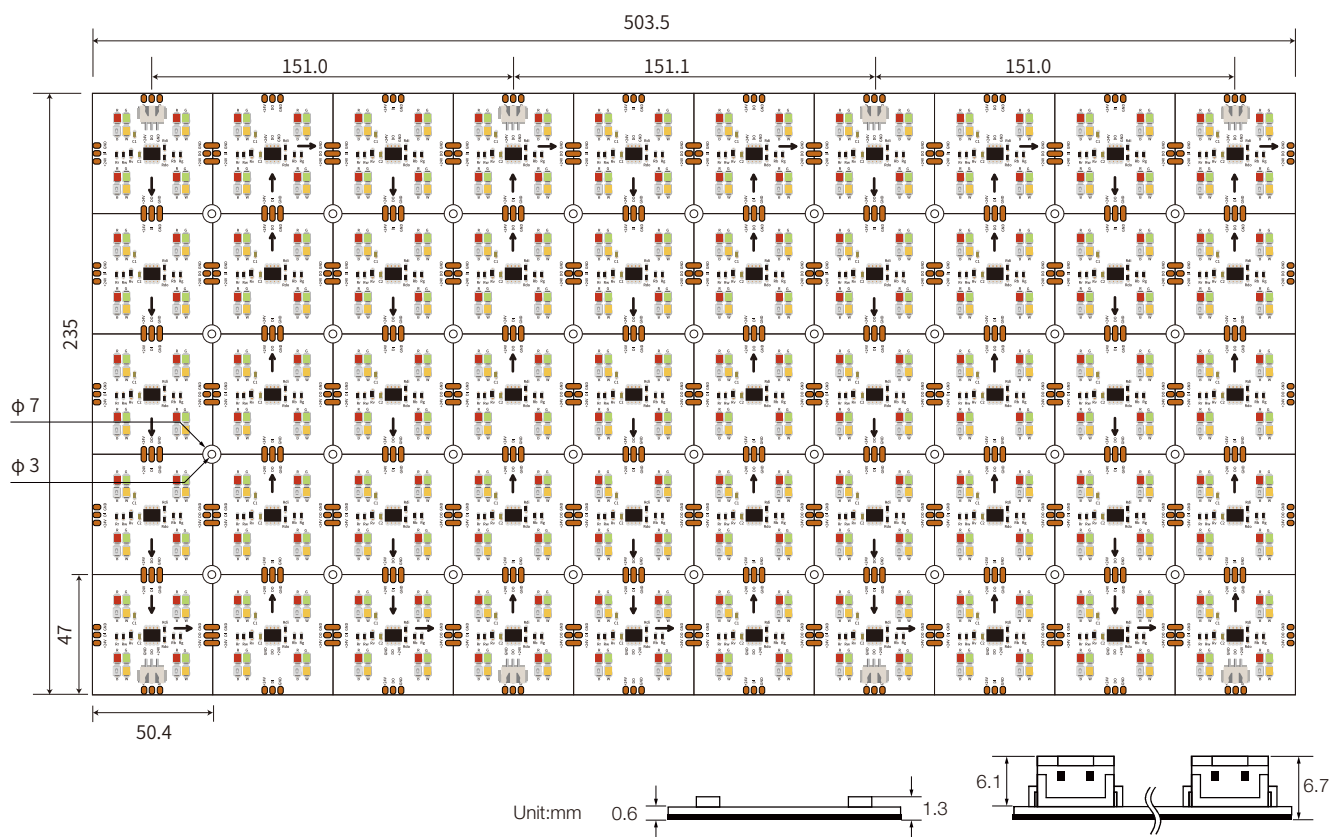
TUNABLE WHITE DIMENSIONAL DRAWINGS



RGBW DIMENSIONAL DRAWINGS



UCS2904 SPI RGBW DIMENSIONAL DRAWINGS

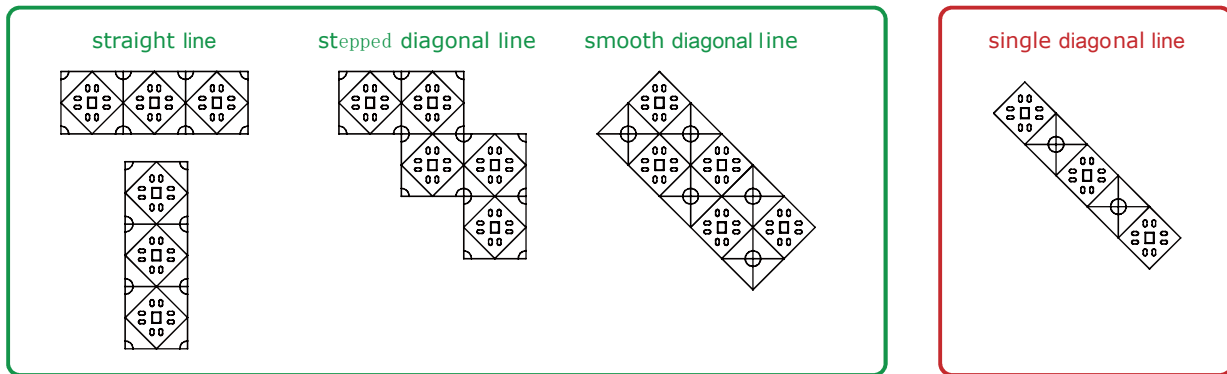


Accessories

Part No.	Description	Picture
CW-2P-50MM	Single white, short sheet-TO-sheet connection wire, 2 PIN, 20awg, 50mm length	
CW-2P-150MM	Single white, long sheet-TO-sheet connection wire, 2 PIN, 20awg, 150mm length	
PC-2P-300MM	Single white, power input cable, 2 PIN, 20awg, 300mm length	
CW-3P-60MM-TW	Tunable white, short sheet-TO-sheet connection wire, 3 PIN, 20awg, 60mm length	
CW-3P-150MM-TW	Tunable white, long sheet-TO-sheet connection wire, 3 PIN, 20awg, 150mm length	
PC-3P-300MM-TW	Tunable white, power input cable, 3 PIN, 20awg, 300mm length	
CW-3P-60MM-SPI	SPI RGBW, short sheet-TO-sheet connection wire, 3 PIN, 20awg, 60mm length	
CW-3P-150MM-SPI	SPI RGBW, long sheet-TO-sheet connection wire, 3 PIN, 20awg, 150mm length	
PC-3P-300MM-SPI	SPI RGBW, power input cable, 3 PIN, 20awg, 300mm length	
CW-5P-90MM	5 PIN, 20awg, 90mm length	
CW-5P-150MM	RGBW, long sheet-TO-sheet connection wire, 5 PIN, 20awg, 150mm length	
PC-5P-300MM	RGBW, power input cable, 5 PIN, 20awg, 300mm length	

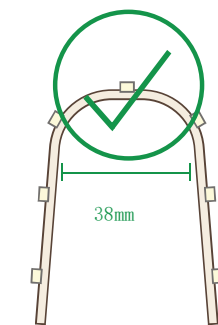
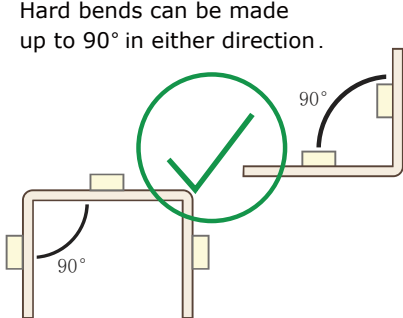
CUTTING SEGMENTS

Strip sheets can be cut into many custom shapes. When cutting strips, it is important to use only the pre-marked cut lines on the sheet and also to maintain electrical contact. The images below represent the smallest possible linear routing types. The green box represents strip routing types that work by preserving the electrical connection, and the one in red represents a routing type that will not function correctly due to interruptions of the electrical connection.

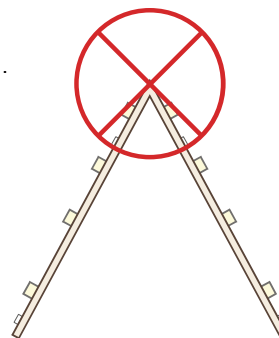


STRIP FLEXIBILITY

Hard bends can be made up to 90° in either direction.

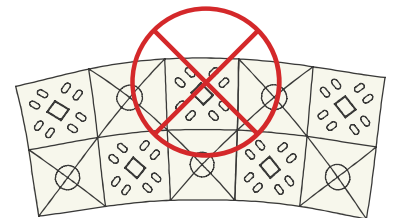


Soft bends less than 15 in. may damage circuit traces and void warranty.



Bending strip sheets or sections at sharp angles will damage circuit traces and void warranty.

Bending strip sheets or sections on horizontal plane will damage circuit traces and void warranty.



Strip Sheet Specifications

APPLICATION

Below are examples of the types of shapes and patterns that can be made and linked as needed to fit nearly any application. The only limiting factor is max run, which can be easily extended by connecting additional power supplies 3. Additional power supplies can connect to any individual square LED segment anywhere in the run for maximum flexibility.

