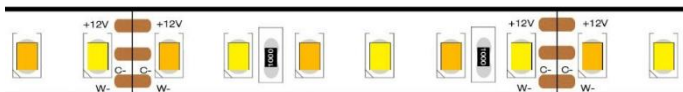


YJ-BC-HRB-2835L-12V-G02

HIGH CRI LED FLEXI STRIP



HIGH CRI LED FLEX STRIP Hybrid
Colour Temperature 2835 12V



FEATURES

- 10mm width flexible PCB with adhesive backing
- 5m length per roll
- 95 CRI, 2700K / 3200K / 5600K / 6500K
- 15W/m (4.6W/foot)
- 12V constant voltage compatible
- Cuttable every 6 LEDs (50 mm)



DESCRIPTION

High CRI LED flexible strips are extremely versatile and can be installed in a variety of linear and curved surfaces alike. Enhanced copper traces with precision SMT resistors provide consistently high power and brightness. 3M® adhesive backing allows for quick installation.

ELECTRICAL-OPTICAL CHARACTERISTICS (TA = 25 °C)

Parameter	Symbol	Value			Unit	Tolerance	Condition
		Min.	Typ.	Max.			
Power per metre *	–	–	15	18	W	–	Vf=12V
Forward current per metre	If	–	1.25	1.5	A	–	Vf=12V
Luminous flux per metre	2700K	–	450	–	lm	–	Vf=12V
	3200K	–	450	–			
	5600K	–	650	–			
	6500K	–	650	–			
Correlated colour temperature	CCT 2700K	2625±75	2700	2775±75	K	–	Vf=12V
	CCT 3200K	3125±75	3200	3275±75			
	CCT 5600K	5450±150	5600	5750±150			
	CCT 6500K	6250±250	6500	6750±250			
Colour rendering index	Ra	95	–	–	–	–	Vf=12V
TCS R9 (CRI Red)	R9	–	90	–	–	–	Vf=12V
Chromaticity Coordinates	(X,Y)	–	–	–	–	±0.005	–
Viewing angle	2θ1/2	–	120	–	Deg	±5	Vf=12V

ORDERING INFORMATION

Part Number	CCT	Chromaticity Bins
YJ-BC-HRB-2835L-12V-G02-2765	2700K ± 150K	27L, 27R
	6500K ± 500K	65L, 65R
YJ-BC-HRB-2835L-12V-G02-3256	3200K ± 150K	32L, 32R
	5600K ± 300K	56L, 56R
YJ-BC-HRB-2835L-12V-G02-XXXX	CUSTOM	

NOTES

Intensities (lv) and colour shades of white (X-Y co-ordinates) may vary between LEDs within a batch. All LED components are supplied in anti-static packaging.
* Unless otherwise noted, specifications are based on a 1 metre segment. Due to electrical resistance, power draw per metre decreases approximately by 0.05A for each additional metre increase per segment.

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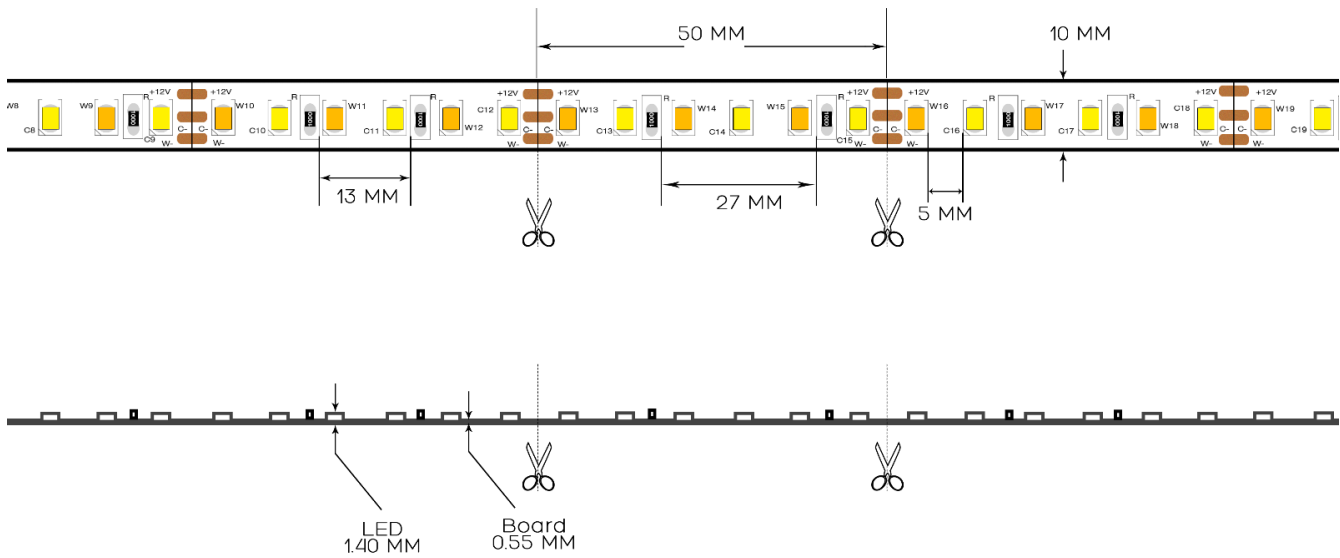
HIGH CRI LED FLEXI STRIP



ABSOLUTE MAXIMUM RATING (TA = 25 °C)

Parameter	Symbol	Limit	Unit
Power Consumption	Pd	18	W/m
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-30 ~ +85	°C

DIMENSIONAL DRAWING



ADDITIONAL NOTES

SELECTING A POWER SUPPLY

The wattage/ampere requirement is directly proportional to the length of LED flexible strip installed. Calculate the power requirement by multiplying the total length in metres by the maximum wattage or ampereage per metre. For additional power supply stability, we recommend specifying 25% additional power capacity above the requirement. For example, a 5 metre length would require 5 metres x 18 W / metre = 90W; for power supply stability, we would recommend a power supply that is capable of supplying at least W (60W + 25% x 60W).

DIMMING

Our LED flex strips are compatible with 1-10V and PWM dimming systems.

HEAT MANAGEMENT

Heatsinking is not necessary if product is used in standard indoor environments where ambient temperatures do not exceed 50°C. Our testing at Ta = 25°C shows LED solder point temperatures stabilising at 68°C. Maximum allowed LED solder point temperature is 105°C.

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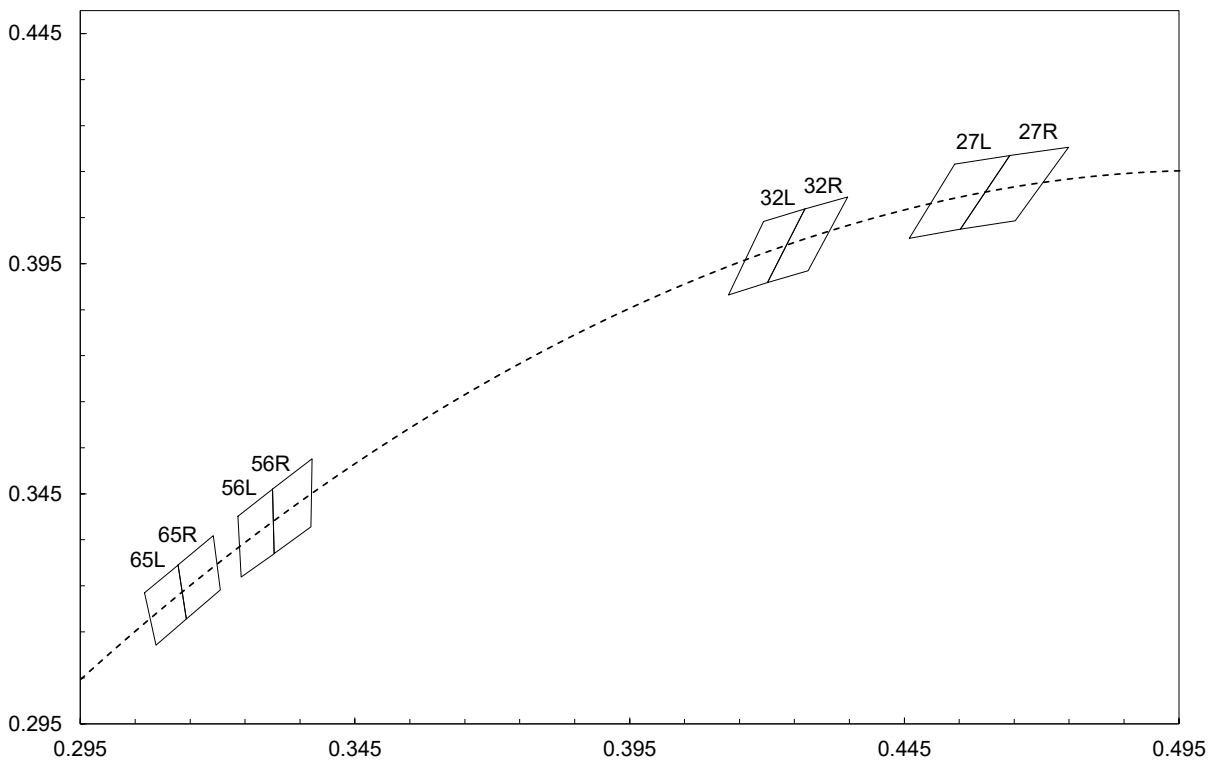
HIGH CRI LED FLEXI STRIP



CHROMATICITY BINS & COORDINATES

CCT	BIN	CIE 1931 COORDINATES							
		X0	Y0	X1	Y1	X2	Y2	X3	Y3
6500K	65L	0.3067	0.3235	0.3088	0.3121	0.3143	0.3178	0.3128	0.3295
	65R	0.3128	0.3295	0.3143	0.3178	0.3205	0.3241	0.3192	0.3359
5600K	56L	0.3237	0.3401	0.3243	0.3269	0.3303	0.3320	0.3300	0.3460
	56R	0.3300	0.3460	0.3303	0.3320	0.3370	0.3378	0.3372	0.3526
3200K	32L	0.4194	0.4042	0.4130	0.3882	0.4201	0.3909	0.4269	0.4069
	32R	0.4269	0.4069	0.4201	0.3909	0.4275	0.3935	0.4347	0.4095
2700K	27L	0.4542	0.4166	0.4459	0.4005	0.4552	0.4025	0.4642	0.4185
	27R	0.4642	0.4185	0.4552	0.4025	0.4652	0.4043	0.4749	0.4203

CIE 1931 COORDINATES



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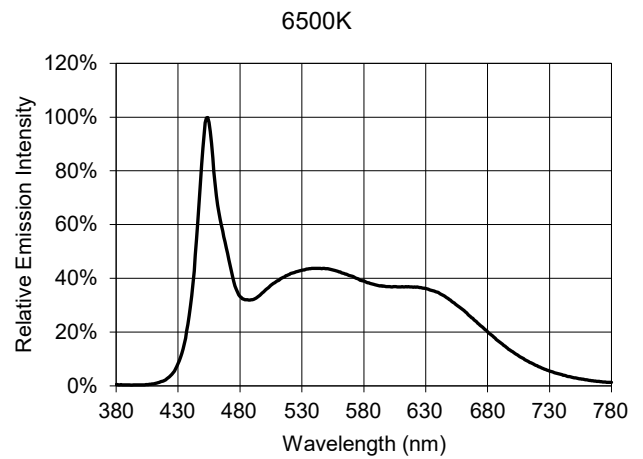
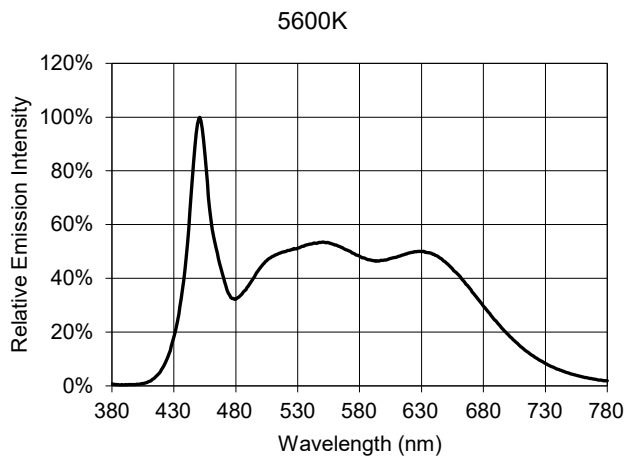
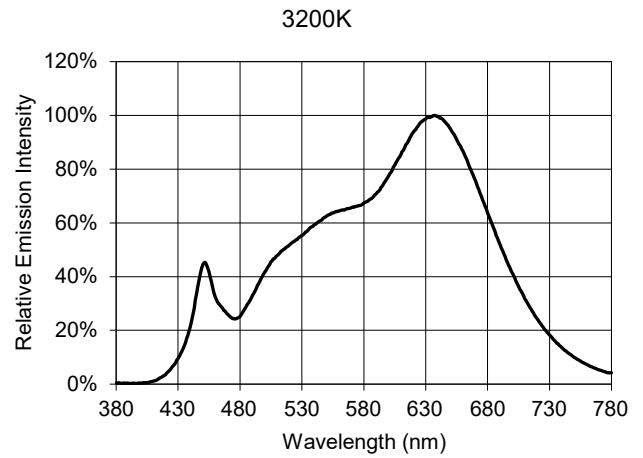
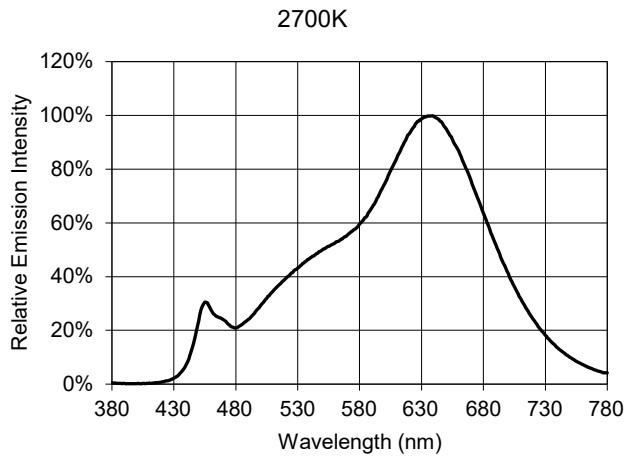


YJ-BC-HRB-2835L-12V-G02

HIGH CRI LED FLEXI STRIP



TYPICAL SPECTRAL DISTRIBUTION GRAPHS

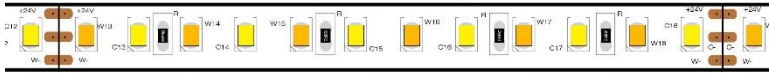


YJ-BC-HRB-2835L-24V-G02

HIGH CRI LED FLEXI STRIP



HIGH CRI LED FLEX STRIP Hybrid
Colour Temperature 2835L 24V



FEATURES

- 10mm width flexible PCB with adhesive backing
- 5m length per roll
- 95 CRI, 2700K / 3200K / 5600K / 6500K
- 15W/m (4.6W/foot)
- 24V constant voltage compatible
- Cuttable every 12 LEDs (100 mm)



DESCRIPTION

High CRI LED flexible strips are extremely versatile and can be installed in a variety of linear and curved surfaces alike. Enhanced copper traces with precision SMT resistors provide consistently high power and brightness. 3M® adhesive backing allows for quick installation.

ELECTRICAL-OPTICAL CHARACTERISTICS (TA = 25 °C)

Parameter	Symbol	Value			Unit	Tolerance	Condition
		Min.	Typ.	Max.			
Power per metre *	–	–	15	18	W	–	Vf=24V
Forward current per metre	If	–	0.65	0.75	A	–	Vf=24V
Luminous flux per metre	2700K	–	450	–	lm	–	Vf=24V
	3200K	–	450	–			
	5600K	–	650	–			
	6500K	–	650	–			
Correlated colour temperature	CCT 2700K	2625±75	2700	2775±75	K	–	Vf=24V
	CCT 3200K	3125±75	3200	3275±75			
	CCT 5600K	5450±150	5600	5750±150			
	CCT 6500K	6250±250	6500	6750±250			
Colour rendering index	Ra	95	–	–	–	–	Vf=24V
TCS R9 (CRI Red)	R9	–	90	–	–	–	Vf=24V
Chromaticity Coordinates	(X,Y)	–	–	–	–	±0.005	–
Viewing angle	2θ1/2	–	120	–	Deg	±5	Vf=24V

ORDERING INFORMATION

Part Number	CCT	Chromaticity Bins
YJ-BC-HRB-2835L-24V-G02-2765	2700K ± 150K	27L, 27R
	6500K ± 500K	65L, 65R
YJ-BC-HRB-2835L-24V-G02-3256	3200K ± 150K	32L, 32R
	5600K ± 300K	56L, 56R
YJ-BC-HRB-2835L-24V-G02-XXXX	CUSTOM	

NOTES

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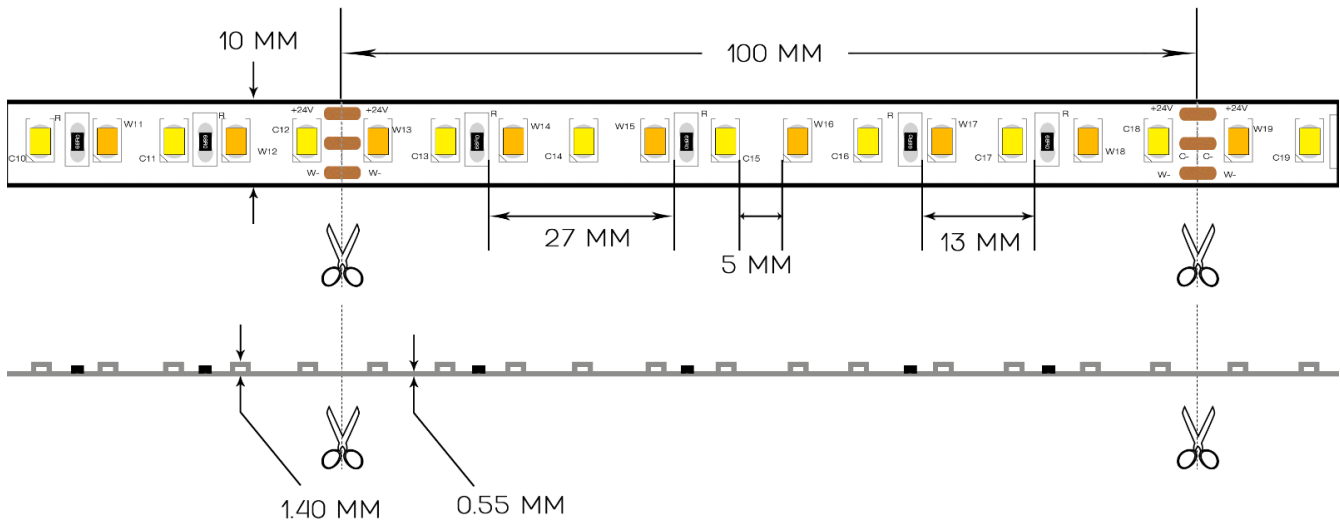
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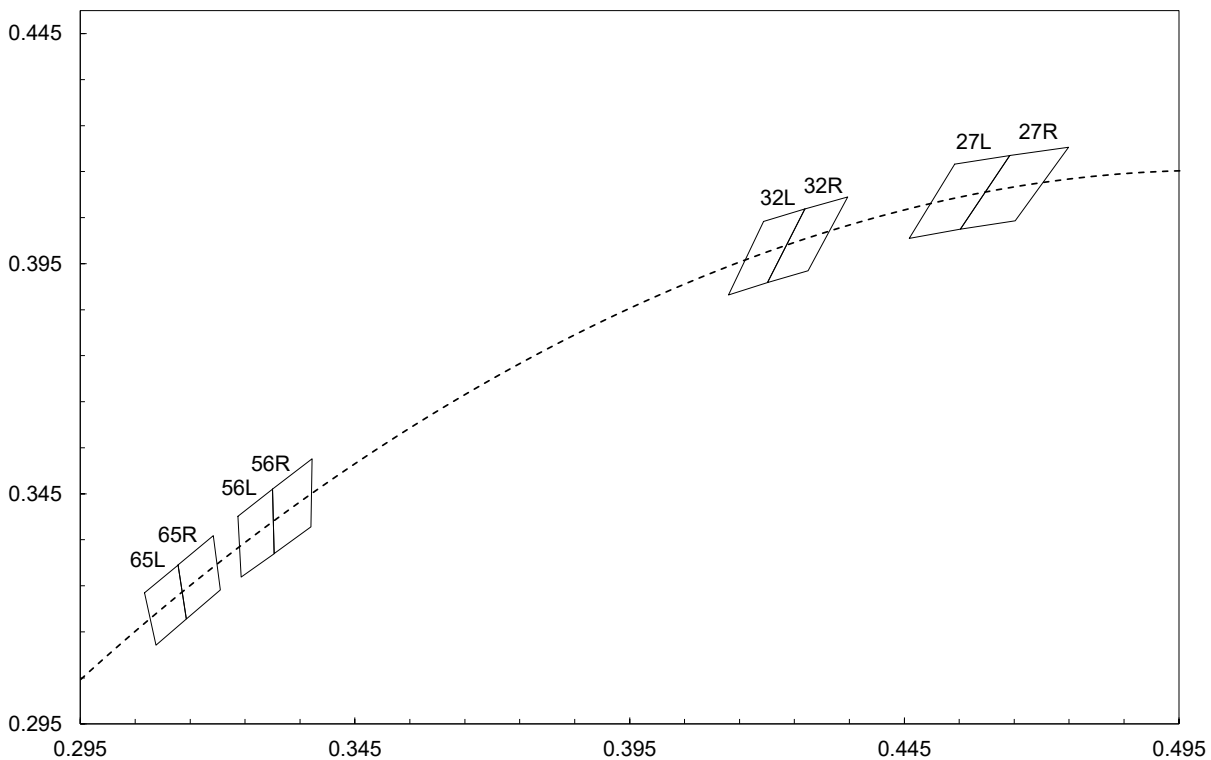
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CIE 1931 COORDINATES



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HIGH CRI LED FLEXI STRIP



TYPICAL SPECTRAL DISTRIBUTION GRAPHS

