



FLEXIBLE LED STRIPS FOR EXTREMELY LOW-PROFILE APPLICATIONS

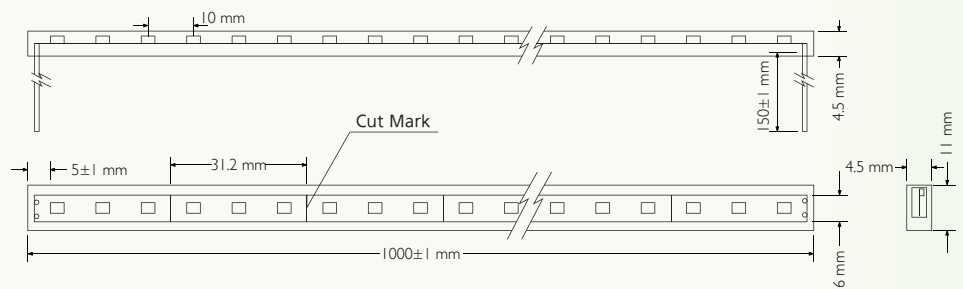
The FLEX TOP VIEW SERIES T10100 & T20100 is a linear-type top-view flexible LED strip with 10mm & 20mm LED pitch which is perfect for extremely compact channel letters and front emitting applications. Both has the identical architecture, it's light comes from the top side. Both are ideal for both indoor and outdoor applications. With it's transparent flexible resin it has protection against weather, rain, snow, direct sunlight and dust. Cut every three LEDs to fit in any space. Luminous intensity is excellent by comparison to other products. And the result?, fantastic.

- Long life expectancy is guaranteed up to 42,500 hours maintaining lighting output level at 70%
*24 hour constant load may result less operating hours with lower lighting output. Estimated lifetime is based on normal usage of 10 hours per day.
- IP65 : Prevents water & dust penetration
- Extremely small and light solution for use of confined spaces
- Energy efficient
- Easy on-site installation
- Can be cut and rejoined every 3 LED lamps

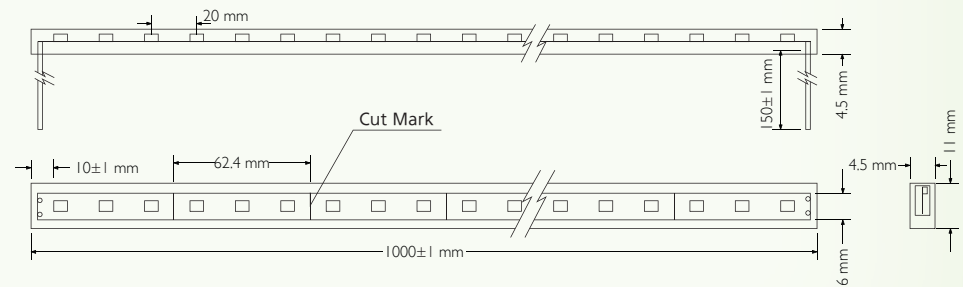
PHYSICAL

Model	Length	Width	Thickness	Weight	Lamp Pitch
FLEX T10100	1000mm	11mm	4.5mm	75g	10 mm (96 Lamps)
FLEX T20100	1000mm	11mm	4.5mm	60g	20mm (48 Lamps)

FLEX T10100



FLEX T20100



ELECTRICAL CHARACTERISTICS

Model	Current Dissipation	Power Consumption	Operating Power	Maximum Serial Connection
FLEXT10100	448mA	5.4W	DC12V	3 Meters
FLEXT20100	200mA	2.4W	DC12V	3 Meters

Electronic dimming control supported

OPTICAL CHARACTERISTICS

Model	Color	Luminous Flux (lumen)			Dominant Wave Length & Color Temperature		Viewing Angle 2Θ _{1/2}
		Min	Typical	Max	Min	Max	
FLEXT10100	White	297.6lm	547.2lm	5,000K	8,000K	120	
	Warm White	297.6lm	758.4lm	2,900K	3,100K		
	Red	136lm	615nm	630nm			
	Green	271lm	520nm	535nm			
	Blue	102lm	460nm	475nm			
FLEXT20100	White	183lm	5,000K	8,000K	120		
	Warm White	203.5lm	2,900K	3,100K			
	Red	76.8lm	105.6lm	615nm		630nm	
	Green	105.6lm	374.4lm	515nm		530nm	
	Blue	43.2lm	105.6lm	460nm	475nm		

*CRI (Color Rendering Index) for white product types is 70 / *Spectral width at half of the peak intensity / *Luminous Flux measuring equipment is CA5140B
 *Viewing angle is the off axis angle from lamp centerline where the luminous intensity is half of the peak value / *CCT 5% tester tolerance
 *Dominant wavelength is derived from the CIE 1931 Chromaticity diagram and represents the perceived color
 *Color temperature for white is strictly controlled by bin rank system and it consists of three ranks which should not be used simultaneously.

THERMAL

Cooling : Ambient air
 Maximum operating temperature : 60°C (140°F)
 Minimum operating temperature : -25°C (-13°F)
 Maximum storage temperature : 60°C (140°F)
 Minimum storage temperature : -30 C (-22 F)

SAFETY FEATURES

IP65 : Prevents water & dust penetration

CONSTRUCTION

Flexible PCB : Polyimide base with copper circuit
 Protective body : Epoxy filled transparent resin
 White LED Lamp : Single-Die chip, 3528, Top view
 Color LED Lamp : Double-Die chip, 3528, Top view
 Number of LED lamps per unit : 96(T10100)/48(T20100)
 Transparency through panel (typical light viewing area) : >94%
 Color : Clear resin body with white PCB

APPLICATIONS

Open/Close face channel letters
 Reverse halo
 Border lighting
 Point-Of-Purchasing signage
 Art & sculpture and cove lighting

APPROVAL

EN 55015/A2 : 2009
 EN 61547/2009
 EN 62031/2008
 EN 62471/2006



FEATURES

42,500H LIFETIME

Specifications subject to change without notice