



# SolidFLEX™

## SolidFLEX Series

### LED Linear Tape Lighting



BT-10T8-V24BW65 model shown

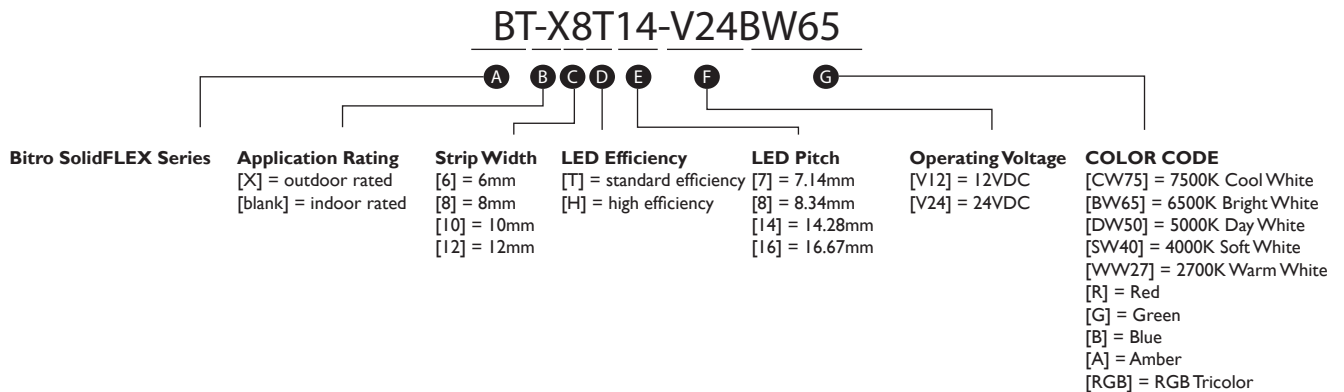
### overview

Introducing SolidFLEX: Bitro's new series of linear tape lighting for narrow channels, linear coves, and retail applications. Using a PCB that is twice as thick as the typical tape LED found in the marketplace, along with very specific design choices aimed at reducing voltage drop - SolidFLEX is a LED tape product that is built with Bitro's commitment to superior quality and solid value. SolidFLEX comes in both 12V and 24V variants with a multitude of brightness, width, and color configurations to perfectly match the given application. There is also a silicone encased damp location rated model for use in outdoor projects.

### features

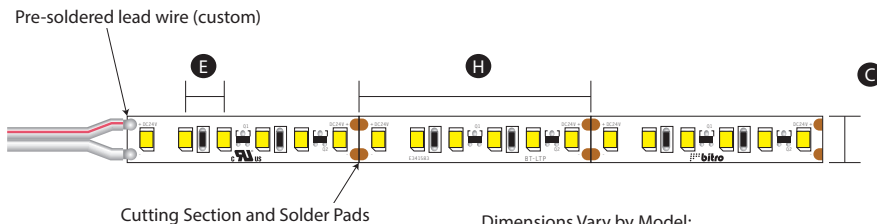
- Thicker PCB with extra copper for greater durability and reduced voltage drop
- Multitude of brightness and color options
- Variety of strip widths to fit varying channel sizes
- IP66 damp rated silicone encased model available

### models nomenclature



### models & dimensions

SolidFLEX series



- C = Strip Width note: for outdoor rated models, strip width refers to the outer jacket width - not the PCB width
- E = LED Pitch
- H = Cutting Increment (Circuit Length)



**3-YEAR**  
WARRANTY





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#### specifications

		12V Models		24V Models	
Model Number		6T8-V12	10T16-V12	8T8-V24	10T8-V24
Model & Configuration	Product Width (mm)	0.24" (6 mm)	0.39" (10 mm)	0.31" (8 mm)	0.39" (10 mm)
	LED Pitch (mm)	0.33" (8.34 mm)	0.66" (16.67 mm)	0.33" (8.34 mm)	0.33" (8.34 mm)
	Cutting increment	0.98" (25 mm) / Every 3 LEDs	1.97" (50 mm) / Every 3 LEDs	1.97" (50 mm) / Every 6 LEDs	1.97" (50 mm) / Every 6 LEDs
Application	Ideal Application	Very Narrow/Low Profile, Standard Brightness, Extended Runs per Power Lead, Very Small Cutting Increment	Standard Profile, Standard Brightness, Extended Runs per Power Lead, Small Cutting Increment	Narrow/Low Profile, Standard Brightness, Small Cutting Increment	Standard Profile, High Brightness, Extended Runs per Power Lead, Small Cutting Increment
	Indoor/Outdoor	Dry Locations Only	Dry Locations Only	Dry Locations Only	Dry Locations Only
	Mounting Method	Double-sided Tape	Double-sided Tape	Double-sided Tape	Double-sided Tape
	Connections / Lead	Soldering Required <sup>3</sup>	Soldering Required <sup>3</sup>	Soldering Required <sup>3</sup>	Soldering Required <sup>3</sup>
Power & Electrical	Operating Voltage	12VDC	12VDC	24VDC	24VDC
	Power Draw (w/ft)	3.6 w/ft	4.32 w/ft	5.04 w/ft	8.64 w/ft
	Constant Current	Yes	Yes	No	Yes
	Max distance per class 2 power supply	15 ft (8 ft per power feed)	12 ft (10 ft per power feed)	17 ft (6 ft per power feed)	10 ft (10 ft per power feed)
	Recommended power supply	ASU-60-12U (60W)	ASU-60-12U (60W)	ASU-100-24U (96W)	ASU-100-24U (96W)
Illumination	Brightness (lm/ft) <sup>1</sup>	324 lm/ft	388.8 lm/ft	453.6 lm/ft	777.6 lm/ft
	Lumen Efficacy (lm/w) <sup>1</sup>	90 lm/w	90 lm/w	90 lm/w	90 lm/w
Misc	Minimum Order Unit	16.4ft (5m) / 1 Reel			
	Warranty	3 Years			
	UL File # / Model #	E341583, BT-LTP, "Flexible LED Strip"			
	CSA File # / Model #	258485, "BT-PCB"			
	CE File #	"BT-PCB"			
Available Colors/Part Numbers	Cool White 7500K	-	-	BT-8T8-V24CW75	-
	Bright White 6500K	BT-6T8-V12BW65	BT-10T16-V12BW65	BT-8T8-V24BW65	BT-10T8-V24BW65
	Day White 5000K	BT-6T8-V12DW50	BT-10T16-V12DW50	-	BT-10T8-V24DW50
	Soft White 4000K	-	BT-10T16-V12SW40	BT-8T8-V24SW40	BT-10T8-V24SW40
	Warm White 2700K	-	BT-10T16-V12WW27	-	BT-10T8-V24WW27
	Red <sup>2</sup>	BT-6T8-V12R	BT-10T16-V12R	BT-8T8-V24R	BT-10T8-V24R
	Green <sup>2</sup>	BT-6T8-V12G	BT-10T16-V12G	BT-8T8-V24G	BT-10T8-V24G
	Blue <sup>2</sup>	BT-6T8-V12B	BT-10T16-V12B	BT-8T8-V24B	BT-10T8-V24B
	Amber <sup>2</sup>	BT-6T8-V12A	BT-10T16-V12A	BT-8T8-V24A	BT-10T8-V24A
	RGB	-	-	-	-

<sup>1</sup> Lumen values based on 6500K Bright White model

<sup>2</sup> Limited stock - custom order. Contact Bitro for availability.

<sup>3</sup> No connectors provided. Bitro can provide custom wire lead / soldering service



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#### specifications cont.

		24V High Efficiency Models		Outdoor Rated Models	RGB Models		
Model Number		6H14-V24	10H7-V24	X8T14-V24	10T16-V12RGB	12T8-V24RGB	X12T16-V24RGB
Model & Configuration	Product Width (mm)	0.24" (6 mm)	0.39" (10 mm)	0.31" (8 mm)	0.39" (10 mm)	0.47" (12mm)	0.47" (12mm)
	LED Pitch (mm)	0.56" (14.28 mm)	0.28" (7.14 mm)	0.56" (14.28 mm)	0.66" (16.67 mm)	0.33" (8.34 mm)	0.66" (16.67 mm)
	Cutting increment	3.94" (100 mm)	1.97" (50 mm)	3.94" (100 mm)	1.97" (50 mm)	1.97" (50 mm)	3.94" (100 mm)
Application	Ideal Application	Very Narrow Profile, Standard Brightness, High Efficiency (Lower power at similar brightness compared to 8T8-V24)	Standard Profile, Very High Brightness, Extended Runs per power lead, Small Cutting Increment, High Efficiency (Higher brightness at similar w/ft compared to 10T8-V24)	Outdoor (Damp) Rating, Narrow Profile and Larger, Standard Brightness	LightSymphony CLASSIC or SELECT Control Systems, Small Cutting Increment	LightSymphony CLASSIC or SELECT Control Systems, Small Cutting Increment	LightSymphony CLASSIC or SELECT Control Systems, Small Cutting Increment
	Indoor/Outdoor	Dry Locations Only	Dry Locations Only	Dry and Damp Locations	Dry Locations Only	Dry Locations Only	Dry and Damp Locations
	Mounting Method	Double-sided Tape	Double-sided Tape	Double-sided Tape	Double-sided Tape	Double-sided Tape	Double-sided Tape
	Connections / Lead	Soldering Required <sup>3</sup>	Soldering Required <sup>3</sup>	Soldering Required <sup>3</sup>	Soldering Required <sup>3</sup>	Soldering Required <sub>3</sub>	Soldering Required <sub>3</sub>
Power & Electrical	Operating Voltage	24VDC	24VDC	24VDC	12VDC	24VDC	24VDC
	Power Draw (w/ft)	3.6 w/ft	8.64 w/ft	3.6 w/ft	4.32 w/ft	8.64 w/ft	4.32 w/ft
	Constant Current	No	Yes	Yes	No	No	No
	Max distance per class 2 power supply	24 ft (5 ft per power feed)	10 ft (10 ft per power feed)	24 ft (10 ft per power feed)	12 ft (6 ft per power feed)	10 ft (8 ft per power feed)	20 ft (8 ft per power feed)
	Recommended power supply	ASU-100-24U (96W)	ASU-100-24U (96W)	ASU-100-24U (96W)	ASU-60-12U (60W)	ASU-100-24U (96W)	ASU-100-24U (96W)
Illumination	Brightness (lm/ft) <sup>1</sup>	432 lm/ft	1015.2 lm/ft	360 lm/ft	n/a	n/a	n/a
	Lumen Efficacy (lm/w) <sup>1</sup>	120 lm/w	120 lm/w	100 lm/w	n/a	n/a	n/a
Misc	Minimum Order Unit	16.4ft (5m) / 1 Reel					
	Warranty	3 Years					
	UL File # / Model #	E341583, BT-LTP, "Flexible LED Strip"					
	CE File #	"BT-PCB"					
Available Colors/Part Numbers	Cool White 7500K	-	-	-	-	-	-
	Bright White 6500K	BT-6H14-V24BW65	BT-10H7-V24BW65	BT-X8T14-V24BW65	-	-	-
	Day White 5000K	BT-6H14-V24DW50	BT-10H7-V24DW50	BT-X8T14-V24DW50	-	-	-
	Soft White 4000K	BT-6H14-V24SW40	BT-10H7-V24SW40	BT-X8T14-V24SW40	-	-	-
	Warm White 2700K	BT-6H14-V24WW27	BT-10H7-V24WW27	BT-X8T14-V24-WW27	-	-	-
	Red <sup>2</sup>	BT-6H14-V24R	BT-10H7-V24R	BT-X8T14-V24R	-	-	-
	Green <sup>2</sup>	BT-6H14-V24G	BT-10H7-V24G	BT-X8T14-V24G	-	-	-
	Blue <sup>2</sup>	BT-6H14-V24B	BT-10H7-V24B	BT-X8T14-V24B	-	-	-
	Amber <sup>2</sup>	BT-6H14-V24A	BT-10H7-V24A	BT-X8T14-V24A	-	-	-
RGB	-	-	-	BT-10T16-V12RGB	BT-12T8-V24RGB	X12T16-V24RGB	

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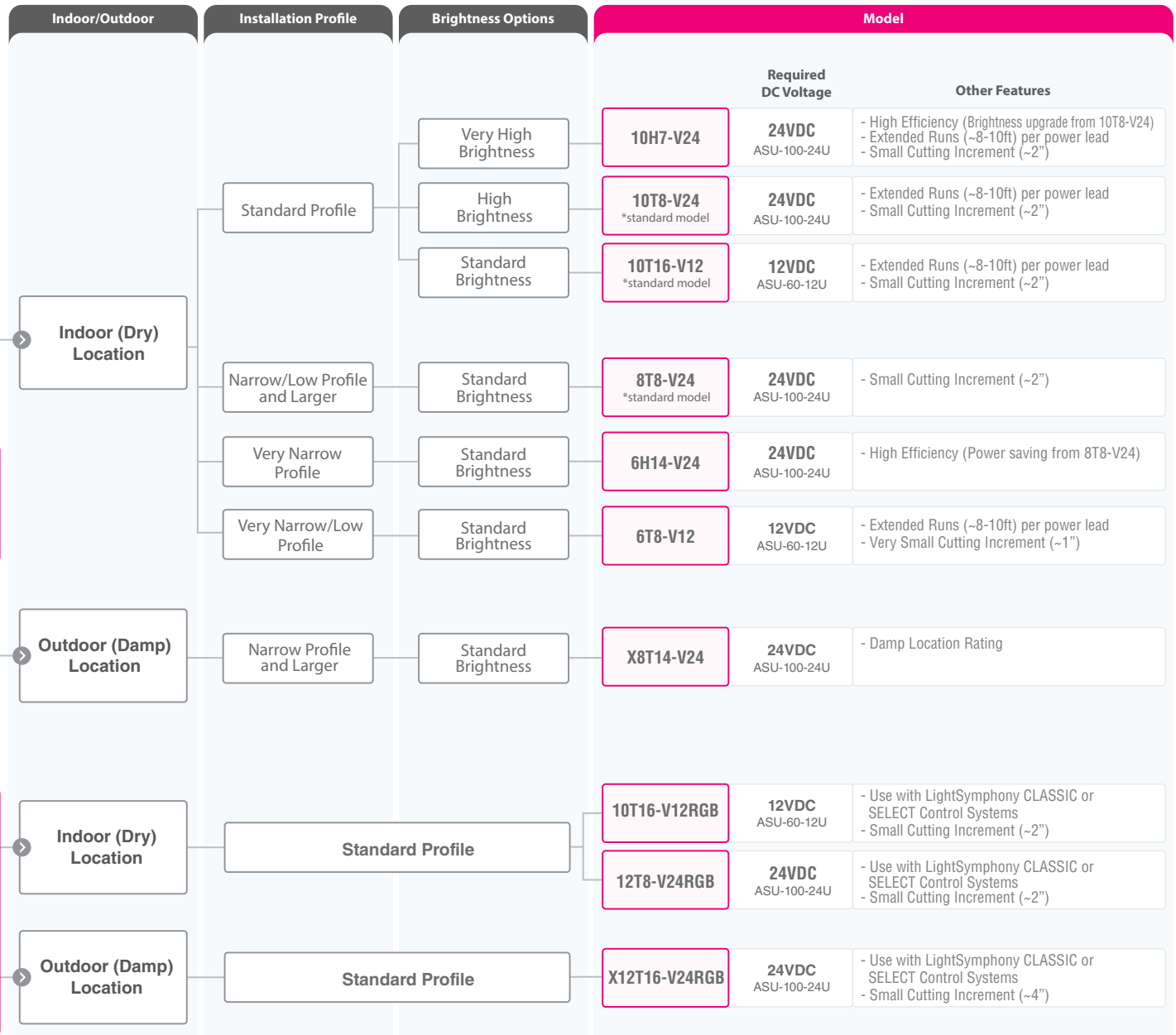
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#### model selection chart



<sup>4</sup> Check specification table for color/part number availability