

Florence LED Tapelight Specifications



Florence is a high-end flexible tape light manufactured in Sheet-to-Sheet method using intelligent design and high-quality components. Osram LEDs, 30z double layer copper conductors, gold-plated



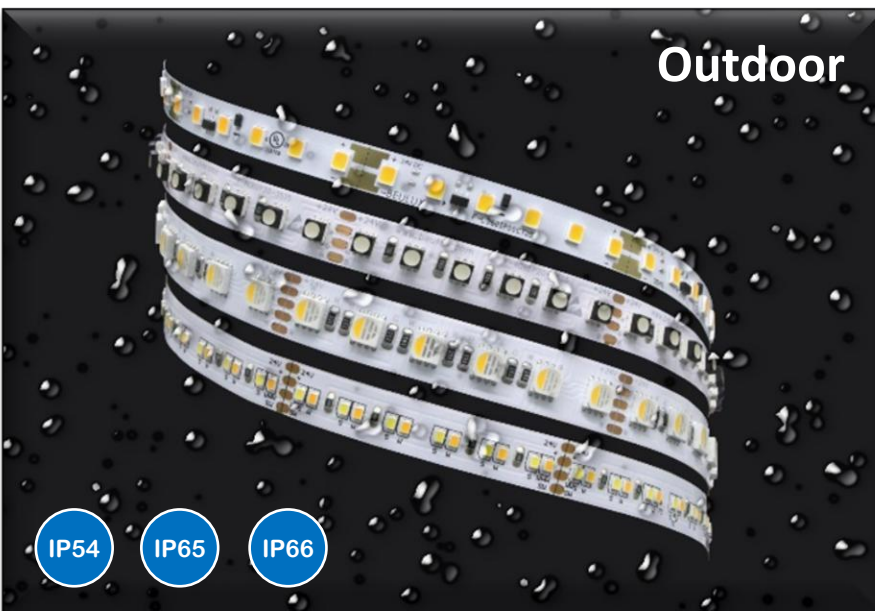
solder pads and constant current ICs guarantee uniform light levels even with longer run lengths up to 55'. Dimmable with all common dimming protocols. Equipped with 3M thermal dissipation adhesive tape. 24V DC. Discharge and reverse polarization protection.

LM
80

CRI
90+



This hydrophobic, plasma-enhanced and super-thin coating enhances the durability of this tape light without the problems that Silicone or Polyurethane coatings bear. Applied under vacuum condition in condensation method.



- **Moisture resistance:** water and many other organic substances have no effect on this coating
- **No light loss:** same lumen output as the IP00 tape
- **No shift in color temperature:** CCTs stay the same as with IP00 tape
- **No temperature increase:** no heat build-up as in encapsulated products guarantees longer lifetime and quality stability

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Technical Information

Product	CCT	Output (lm/ft)	LEDs/ft	Consump. (watt/ft)	Efficacy (lm/watt)	CRI	Voltage	Max run length	Cut increment
L090	2700K	~ 90	36	0.70	~ 125	>90	24V	75'	1.97"
	3000K	~ 90	36	0.70	~ 125	>90	24V	75'	1.97"
	4000K	~ 90	36	0.70	~ 125	>90	24V	75'	1.97"
L200	2700K	~ 185	36	1.46	~ 126	>90	24V	49'	1.97"
	3000K	~ 190	36	1.46	~ 130	>90	24V	49'	1.97"
	3500K	~ 195	36	1.46	~ 133	>90	24V	49'	1.97"
	4000K	~ 205	36	1.46	~ 140	>90	24V	49'	1.97"
L360	2700K	~ 360	36	3.12	~ 100	>90	24V	42'	1.97"
	3000K	~ 380	36	3.12	~ 111	>90	24V	42'	1.97"
	3500K	~ 390	36	3.12	~ 111	>90	24V	42'	1.97"
	4000K	~ 410	36	3.12	~ 117	>90	24V	42'	1.97"
L500	2700K	~ 530	36	4.39	~ 120	>90	24V	36'	1.97"
	3000K	~ 560	36	4.39	~ 123	>90	24V	36'	1.97"
	3500K	~ 570	36	4.39	~ 130	>90	24V	36'	1.97"
	4000K	~ 590	36	4.39	~ 135	>90	24V	36'	1.97"
L780	2700K	~ 670	36	6.72	~ 92	>90	24V	24'	1.97"
	3000K	~ 740	36	6.72	~ 107	>90	24V	24'	1.97"
	3500K	~ 755	36	6.72	~ 108	>90	24V	24'	1.97"
	4000K	~ 790	36	6.72	~ 108	>90	24V	24'	1.97"
L990	2700K	~ 860	36	9.36	~ 92	>90	24V	16'	1.97"
	3000K	~ 900	36	9.36	~ 96	>90	24V	16'	1.97"
	3500K	~ 930	36	9.36	~ 100	>90	24V	16'	1.97"
	4000K	~ 995	36	9.36	~ 106	>90	24V	16'	1.97"
TW1865	1800/6500K	60/850	73	5.79	10/146	>90	24V	16'	1.97"
TW2740	2700/4000K	210/430	73	5.79	36/74	>90	24V	16'	1.97"
Dim-to-warm	2100-3000K	168	73	5.85	~ 111	>90	24V	16'	1.97"
SR	Red	45	72	6.0	~ 7	>90	24V	16'	1.0"
SG	Green	261	72	6.0	~ 43	>90	24V	16'	1.0"
SB	Blue	65	72	6.0	~ 11	>90	24V	16'	1.0"
SY	Yellow	26	72	6.0	~ 4	>90	24V	16'	1.0"
RGB-3535	SMD 3535	RGB	36	3.66	N/A	N/A	24V	16'	1.97"
RGB-3838	SMD 3838	RGB	73	5.0	N/A	N/A	24V	16'	1.0"
RGB-5050	SMD 5050	RGB	22	4.39	N/A	N/A	24V	16'	3.28"
RGBW	RGBW	305	29	7.0	~ 44	>80	24V	13'	2.46"

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Tapelight Ordering Codes

Example: F-L360IP66CT27-4'
(Florence, ~360 lm/ft, Outdoor, 2700K)

Model	+	Output	+	IP Rating	+	Color Temperature	+	Run Length	
F Florence		L090	~ 90 lm/ft		IP00	Indoor	CT27	2700K	Enter run length
		L200	~ 200 lm/ft		IP66	Outdoor	CT30	3000K	
		L360	~ 360 lm/ft				CT35	3500K	
		L500	~ 500 lm/ft				CT40	4000K	
		L780	~ 780 lm/ft						
		L990	~ 990 lm/ft						
		TW	Tunable White		IP00	Indoor	1865	1800-6500K	
					IP65	Outdoor	2740	2700-4000K	
		DTW	Dim-to-Warm		IP20	Indoor	2130	2100-3000K	
					IP54	Outdoor			
		SR	Static Red		IP00	Indoor	N/A		
		SG	Static Green		IP54	Outdoor			
		SB	Static Blue						
		SY	Static Yellow						
	RGB-3535	RGB		IP20	Indoor	N/A			
	RGB-3838			IP54	Outdoor				
	RGB-5050	RGB		IP20	Indoor	N/A			
				IP65	Outdoor				
	RGBW	RGBW		IP00	Indoor	CT30	3000K		
				IP54	Outdoor	CT35	3500K		

Connectors

TL-CON
Connector



TL-LCON
L-Connector



TL-JC02
2" Jumper Cable



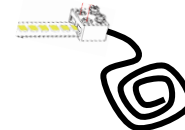
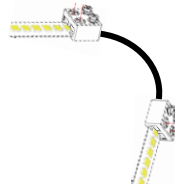
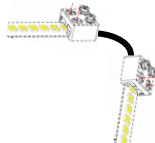
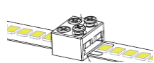
TL-JC12
12" Jumper Cable



TL-PF48
48" Powerfeed

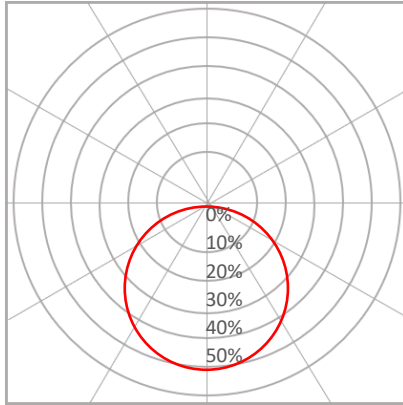


CON8x8-JC
Male/Female Jumper Cable

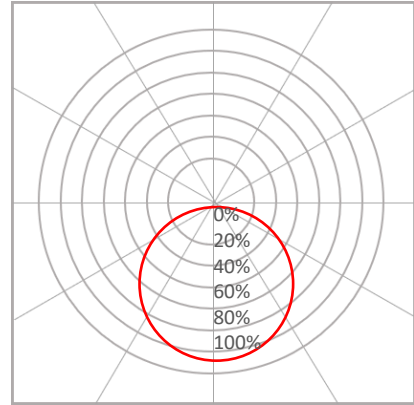


Photometric

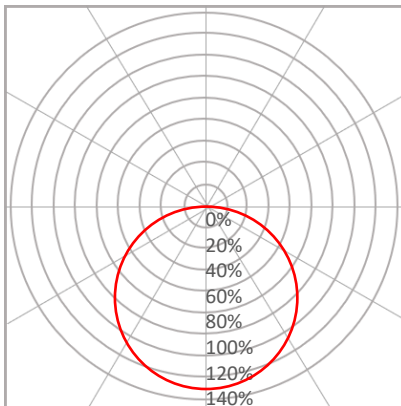
F-L200



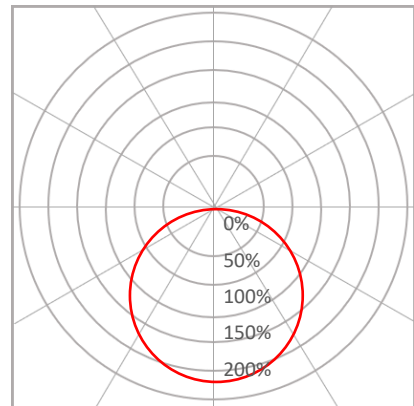
F-L360



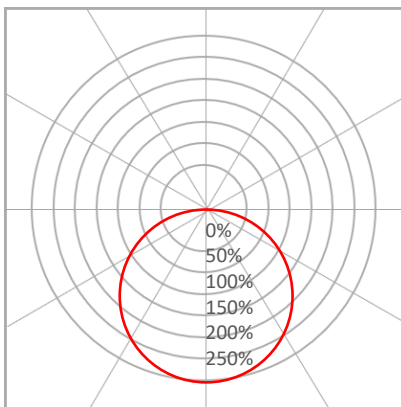
F-L500



F-L780



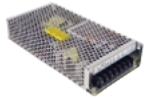






F-L990



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Power Supply Ordering Codes

DTR		+	60		+	IP67		DTR60IP67 - Dimming, 60 Watt, IP67							
MODEL		+	POWER		+	IP RATING		INPUT	OUTPUT	DIMENSION					
NTR Non-Dimming			50	50 Watt		IP00 Indoor		88-264V	24V	3.90 x 3.82 x 1.42					
		75	75 Watt	5.08 x 3.82 x 1.50											
		100	100 Watt	6.26 x 3.82 x 1.50											
		150	150 Watt	7.84 x 3.85 x 1.50											
		200	200 Watt	8.46 x 4.53 x 1.18											
		320	320 Watt	8.46 x 4.53 x 1.18											
		750	750 Watt	9.84 x 5.00 x 1.61											
		960	960 Watt	11.60 x 5.00 x 1.61											
		12	12 Watt							IP42 Indoor		90-264V	24V	3.03 x 1.57 x 1.14	
		16	16 Watt											3.03 x 1.57 x 1.14	
		25	25 Watt											3.31 x 2.24 x 1.16	
		35	35 Watt											3.31 x 2.24 x 1.16	
		20	20 Watt							IP67 Outdoor		90-264V	24V	4.65 x 1.38 x 1.02	
		35	35 Watt											5.83 x 1.57 x 1.18	
	60	60 Watt	6.40 x 1.67 x 1.26												
	100	100 Watt	7.48 x 2.05 x 1.46												
	150	150 Watt	7.52 x 2.48 x 1.48												
	240	240 Watt	9.61 x 2.68 x 1.53												
	320	320 Watt	9.92 x 3.54 x 1.72												
DTR Dimming min 10% (0-10V)		16	16 Watt		IP30 Indoor		90-305V	24V	5.83 x 1.57 x 1.26						
		25	25 Watt							IP67 Outdoor	90-305V	24V	5.83 x 1.57 x 1.26		
		40	40 Watt										6.40 x 1.70 x 1.26		
		60	60 Watt										6.40 x 1.70 x 1.26		
		90	90 Watt										6.34 x 2.40 x 1.42		
		96	96 Watt										8.66 x 2.68 x 1.53		
		120	120 Watt										8.66 x 2.68 x 1.53		
		150	150 Watt										8.97 x 2.68 x 1.58		
		185	185 Watt										8.97 x 2.68 x 1.58		
		240	240 Watt										9.88 x 2.68 x 1.58		
		320	320 Watt										9.92 x 3.54 x 1.72		
	480	480 Watt	10.32 x 4.92 x 1.72												
	600	600 Watt	11.02 x 5.67 x 1.91												
FPD Dimming min 1% (Forward Phase)		20	20 Watt		IP67 Outdoor		120V	24V	4.92 x 2.20 x 0.79						
		40	40 Watt						4.92 x 2.20 x 0.79						
		60	60 Watt						4.92 x 2.20 x 0.79						
		75	75 Watt						4.92 x 2.20 x 0.79						
		96	96 Watt						4.92 x 2.20 x 0.79						
		96	96 Watt						4.92 x 2.20 x 0.79						
FPD Dimming min 1% (Forward Phase) with junction box		20	20 Watt		IP14 Outdoor		120V	24V	5.60 x 2.00 x 2.14						
		40	40 Watt						5.60 x 2.00 x 2.14						
		60	60 Watt						6.62 x 2.58 x 2.33						
		96	96 Watt						6.62 x 2.58 x 2.33						
		150	150 Watt						9.80 x 3.00 x 2.74						
		200	200 Watt						9.80 x 3.00 x 2.74						
		300	300 Watt						10.07 x 4.20 x 3.50						

Florence LED Tapelight – Pixilation Table



∅	No Pixilation	◐	Minor Pixilation	●	Has Pixilation	n/a	Not Applicable
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Extrusion + Lens	F-L090	F-L200	F-L360	F-L500	F-L780	F-L990	F-TW	F-TW	Dim to	F-RGB-	F-RGB-	F-RGB-	F-RGBW
	27-40	18-65	Warm	3535	3838	5050							

AA01	Satined Lens	∅	∅	∅	∅	∅	∅	n/a	n/a	n/a	n/a	n/a	n/a	n/a
AA07	Satined Lens	◐	◐	∅	∅	n/a	n/a	∅	∅	∅	∅	∅	∅	∅
AB02	Satined Lens	∅	∅	∅	∅	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
AC02	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
AD02	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
AG01	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
AL02	Satined Lens	●	●	●	n/a	n/a	n/a	●	●	●	●	●	●	●
BA02	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
BE01	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
CT01	Drop Lens	∅	∅	∅	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CT02	Drop Lens	∅	∅	∅	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
CT06	Drop Lens	∅	∅	∅	∅	∅	n/a	∅	∅	∅	∅	∅	∅	∅
JA01	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	◐	◐	◐	◐	◐
JB01	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
JC01	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
JD01	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
JE02	Satined Lens	●	●	●	●	n/a	n/a	●	●	●	●	●	●	●
JE02	Drop Lens	∅	∅	∅	∅	n/a	n/a	∅	∅	∅	∅	∅	∅	∅
JE04	Satined Lens	◐	◐	∅	∅	n/a	n/a	∅	∅	∅	∅	∅	∅	∅
JE08	Satined Lens	●	●	●	●	n/a	n/a	●	●	●	●	●	●	●
JE08	Drop Lens	∅	∅	∅	∅	n/a	n/a	∅	∅	∅	∅	∅	∅	∅
JF04	Satined Lens	●	●	◐	∅	n/a	n/a	∅	∅	∅	∅	∅	∅	∅
JF04	90° Satined Lens	∅	∅	∅	∅	n/a	n/a	∅	∅	∅	∅	∅	∅	∅
JG04	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
JG04	90° Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
JM02	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
JM02	Drop Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
LA01	Satined Lens	∅	∅	∅	∅	∅	∅	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LB03IN	Satined Lens	∅	∅	∅	∅	n/a	n/a	∅	∅	∅	∅	∅	∅	n/a
LB03OUT	Satined Lens	∅	∅	∅	∅	n/a	n/a	∅	∅	∅	∅	∅	∅	n/a
LC07	Satined Lens	∅	∅	∅	∅	∅	∅	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LD01	Satined Lens	∅	∅	∅	∅	∅	∅	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LE05	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
LF01	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
LH01	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	●	●	●	●	●
LH02	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	●	●	●	●
LH08	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	●	●	●	●
MA02	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
OM55	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
PH01	PMMA	∅	∅	∅	∅	∅	n/a	∅	∅	∅	∅	∅	∅	∅
PH02	PMMA	∅	∅	∅	∅	∅	n/a	∅	∅	∅	∅	∅	∅	∅
PH04	PMMA	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
TM02	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
UT01	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
VT01	Satined Lens	∅	∅	∅	∅	n/a	n/a	∅	∅	∅	∅	∅	∅	∅
VT02	Satined Lens	∅	∅	∅	∅	n/a	n/a	∅	∅	∅	∅	∅	∅	∅
VT03	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
WT02	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
XT02	Satined Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
XT02	Drop Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
YT06	Satined Lens	●	●	●	●	∅	∅	●	●	●	●	●	●	●
YT06	Drop Lens	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅

Florence LED Tapelight – Compatibility



● Compatible

∅ Not Compatible

Extrusion	Applications	L090	L200	L360	L500	L780	L990	TW 27-40	TW 18-65	DTW	RGB 3535	RGB 3838	RGB 5050	RGBW
AA01	Recessed Flangeless	●	●	●	●	●	●	∅	∅	∅	∅	∅	∅	∅
AA07	Under-Tile	●	●	●	●	∅	∅	●	●	●	●	●	●	●
AB02	Surface Mount	●	●	●	●	∅	∅	∅	∅	∅	∅	∅	∅	∅
AC02	Surface Mount	●	●	●	●	●	●	●	●	●	●	●	●	●
AD02	Surface Mount / Pendant	●	●	●	●	●	●	●	●	●	●	●	●	●
AG01	Recessed Flangeless	●	●	●	●	●	●	●	●	●	●	●	●	●
AL02	Surface Mount / Pendant	●	●	●	∅	∅	∅	●	●	●	●	●	●	●
BA02	Surface Mount	●	●	●	●	●	●	●	●	●	●	●	●	●
BE01	Recessed	●	●	●	●	●	●	●	●	●	●	●	●	●
CT01	Recessed	●	●	●	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
CT02	Surface Mount	●	●	●	∅	∅	∅	∅	∅	∅	∅	∅	∅	∅
CT06	Closet Rod	●	●	●	●	●	∅	●	●	●	●	∅	●	∅
JA01	Recessed Flangeless	●	●	●	●	●	●	●	●	●	●	●	●	●
JB01	Recessed Flangeless	●	●	●	●	●	●	●	●	●	●	●	●	●
JC01	Recessed Flangeless	●	●	●	●	●	●	●	●	●	●	●	●	●
JD01	Recessed Flangeless	●	●	●	●	●	●	●	●	●	●	●	●	●
JE02	Surface Mount	●	●	●	●	∅	∅	●	●	●	●	●	●	●
JE04	90° / Corner	●	●	●	●	∅	∅	●	●	●	●	●	●	●
JE08	Recessed	●	●	●	●	∅	∅	●	●	●	●	●	●	●
JF04	90° / Corner	●	●	●	●	∅	∅	●	●	●	●	●	●	●
JG04	90° / Corner	●	●	●	●	●	●	●	●	●	●	●	●	●
JK02	Surface Mount	●	●	●	●	●	●	●	●	●	●	●	●	●
JM02	Surface Mount / Pendant	●	●	●	●	●	●	●	●	●	●	●	●	●
LA01	Recessed	●	●	●	●	●	●	∅	∅	∅	∅	∅	∅	∅
LB03IN	Recessed Flangeless	●	●	●	●	∅	∅	●	●	●	●	∅	●	∅
LB03OUT	Recessed Flangeless	●	●	●	●	∅	∅	●	●	●	●	∅	●	∅
LC07	Surface Mount	●	●	●	●	●	●	∅	∅	∅	∅	∅	∅	∅
LD01	Perimeter / Cove	●	●	●	●	●	●	∅	∅	∅	∅	∅	∅	∅
LE05	Recessed / Micro Grazer	●	●	●	●	●	●	●	●	●	●	●	●	●
LF01	Recessed Flangeless	●	●	●	●	●	●	●	●	●	●	●	●	●
LH01	Recessed Flangeless	●	●	●	●	●	●	●	●	●	●	●	●	●
LH02	Surface Mount / Pendant	●	●	●	●	●	●	●	●	●	●	●	●	●
LH08	Recessed	●	●	●	●	●	●	●	●	●	●	●	●	●
MA02	Cove	●	●	●	●	●	∅	●	●	●	●	●	●	●
OM55	Cove	●	●	●	●	●	∅	●	●	●	●	●	●	●
PH01	Outdoor Walk-Over	●	●	●	●	●	∅	●	●	●	●	●	●	●
PH02	Outdoor Walk-Over / Surface Mount	●	●	●	●	●	∅	●	●	●	●	●	●	●
PH04	Outdoor Walk-Over	●	●	●	●	●	∅	●	●	●	●	●	●	●
TM02	Surface Mount / Pendant	●	●	●	●	●	●	●	●	●	●	●	●	●
UT01	Ingrade Walk-Over	●	●	●	●	●	●	●	●	●	●	●	●	●
VT01	Surface Mount / Pendant	●	●	●	●	∅	∅	●	●	●	●	●	●	●
VT02	Surface Mount / Pendant	●	●	●	●	∅	∅	●	●	●	●	●	●	●
VT03	Surface Mount / Pendant	●	●	●	●	●	●	●	●	●	●	●	●	●
WT02	90° / Corner	●	●	●	●	●	●	●	●	●	●	●	●	●
XT02	Surface Mount / Pendant	●	●	●	●	●	●	●	●	●	●	●	●	●
YT06	Surface Mount / Two-Sided	●	●	●	●	●	●	●	●	●	●	●	●	●



Warning

Warranty is VOID if any of the below are violated

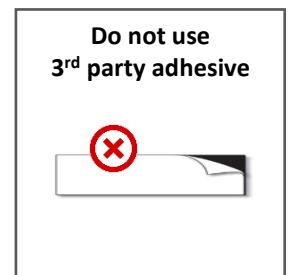
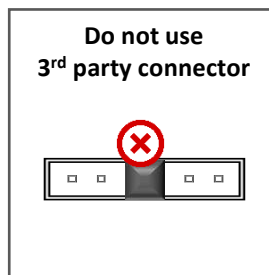
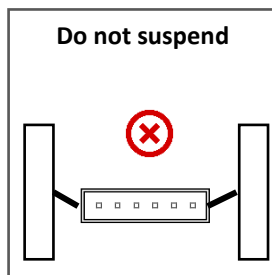
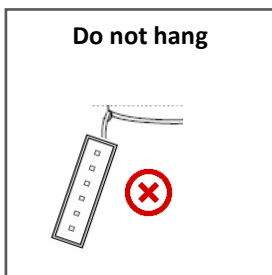
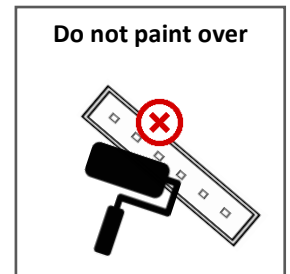
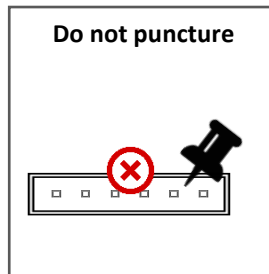
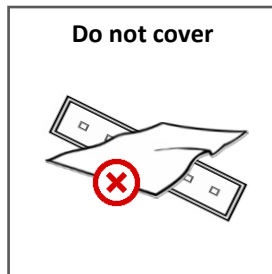
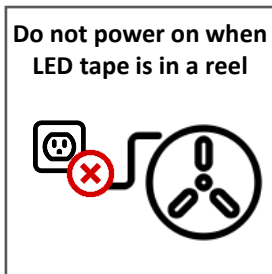
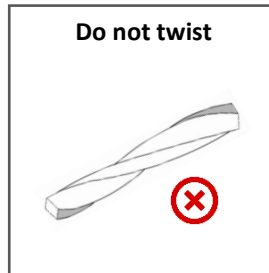
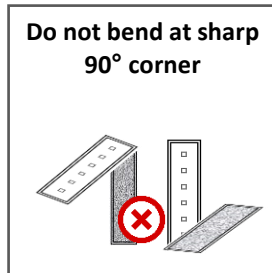
READ AND FOLLOW ALL BELOW SAFETY INSTRUCTIONS

- Avoid any mechanical stress on the LED tape and its components
- Do not touch top of LED to prevent wire bond damage
- Do not power on the tape when rolled up in the reel
- The electrical circuit must not be damaged or interrupted during assembly
- Use only with Listed Class 2 power unit
- Follow the voltage specifications and electrical polarity to avoid irreversible damage to the LED tape
- Only qualified personnel with appropriate training and following the electrical and safety standards should carry out the installation
- The LED components are sensitive to electrostatic discharge and may be installed in the location or site only if appropriate EOS/ESD protection measures have been taken
- Do not look directly into the LEDs to prevent harm to the eyes
- Exposure of IP00 tape to moisture or very humid environments must be avoided. Any LED tape malfunction due to corrosion damage is not subject to product warranty.
- LED strip can be cut only at the marked locations or between 2 solder points. Do not touch electrical components.
- The minimum bending radius is 1 ¼ ". Bend only in areas with no electronic components.
- The maximum light output and lifespan of the LED products depend on effective thermal design. If the maximum allowed temperature is exceeded, the life of the LED tape will be reduced by great margin or eventually destroyed.
- Appropriate heat dissipation management is required by the installation. Always apply the LED tape to a metallic heat sink and ensure the maximum temperature on the tape surface does not exceed 150°F.



Caution

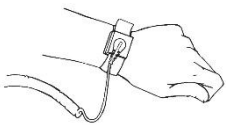
Warranty is VOID if any of the below are violated



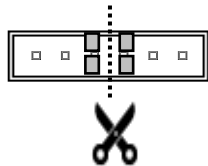
- 1 Use ESD (Electronic Static Discharge) wrist band and ensure hands are clean and oil free when handling LED tape to prevent open electrical components from failing
- 2 LED strip can be cut only at the marked locations or between 2 solder points. Do not touch electrical components.
- 3 Solder connections should only be performed manually on designated solder pad. Do not exceed 3 seconds soldering time. Do not exceed 600°F during soldering.
- 4 Alternatively, connect LED tape using appropriate connector. Do not use 3rd party connector.
- 5 Ensure the mounting surface is a clean, dry and free of oils, silicones dust and dirt. Use isopropyl alcohol or cleaning alcohol with a soft, non-scratching cloth for cleaning.
- 6 Remove the paper backing from the back side of the LED tape exposing 3M adhesive.
- 7 Apply the 3M adhesive side of the LED tape on smooth and clean metallic surface of the heat sink and gently press in areas with no electronic components. Do not use 3rd party adhesive. Do not touch or stress the mechanical components.

Warning: Avoid repetitive application by attaching and detaching of the LED tape to the surface during installation. It may lead to irreversible damage of the electrical circuit.

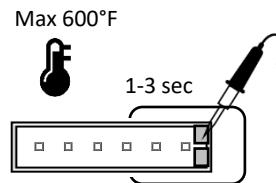
1 Use ESD wrist band



2 Cut LED strip



3 Solder LED strip



4 Connect LED strip



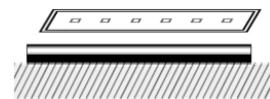
5 Clean mounting surface



6 Remove backing



7 Apply LED strip to mounting surface



Warranty is VOID if any of the above are violated