

TOKISTAR Lightstrings



TOKISTAR LIGHTING INC.



Lightstrings

TOKISTAR® Lightstrings are a system of sockets wired in parallel and permanently attached to flexible, commercial-grade wiring. Light sources include energy-efficient TokiLeds, LEDs with full-range viewing. Our "smart" Kinetic TokiLeds add unique animated effects.

All-weather construction ensures the integrity of installations will be maintained in all environments. For protection in wet locations, LEDs are provided with Tokistar's protective silicone caps.



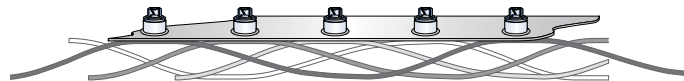
Shadowed branches and limbs wrapped in our Lightstrings fill the silhouettes of trees with dramatic points of light.



Channel letters, signs and display panels are easily and effectively illuminated using Lightstrings.



Socket spacing is greater than hole spacing to provide a small slack of wire between each socket.

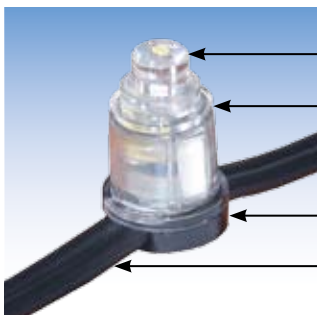


Multiple Lightstrings can be arranged to create animated lighting effects.

Specifications



Wet-Location Listed



Light Sources include TokiLeds and Kinetic TokiLeds

Polycarbonate Sockets with flammability rating UL 94V-0

Flexible Conductors are plated #18 AWG

Sockets are soldered and ultrasonically bonded to cable

Insulation is flexible PVC with flammability rating UL 94 HB

How to Specify

Select the appropriate cable color, socket spacing and LED for the application. For outdoor applications, include the ordering code for silicone caps.

FLBK - 60 - WW - WP

Lightstring Color		Socket Spacing		TokiLeds			Optional Cap	
Code	Color	Code	Inches (mm)	Code	Color	Watts/Volts	Code	Description
FLBK	Black	60	2.40" (60 mm)	WW	2400K White	0.1 W / 8VDC	WP	Silicone Cap
FLWG*	Warm Grey	110	4.25" (110 mm)	IW	3000K White	0.1 W / 8VDC		
FLGR*	Green	160	6.25" (160 mm)	WH	6500K White	0.1 W / 8VDC		
*Warm Grey and Green available in 6.25" and 12.25" only		210	8.25" (210 mm)	WW-HB	2400K White	0.2 W / 8VDC		
		310	12.25" (310 mm)	IW-HB	3000K White	0.2 W / 8VDC		
		410	16.25" (410 mm)	WH-HB	6500K White	0.2 W / 8VDC		
				WW-UB	2400K White	0.4 W / 8VDC		
				IW-UB	3000K White	0.4 W / 8VDC		
				WH-UB	6500K White	0.4 W / 8VDC		
				KLED-FF	3000K White	0.2 W / 8VDC		
				KLED-SF	3000K White	0.2 W / 8VDC		
				KLED-CF	3000K White	0.2 W / 8VDC		
				AM	Amber	0.1 W / 8VDC		
				BL	Blue	0.1 W / 8VDC		
				GR	Green	0.1 W / 8VDC		
				MG	Magenta	0.1 W / 8VDC		
				PL	Purple	0.1 W / 8VDC		
				RD	Red	0.1 W / 8VDC		



Silicone Caps provide protection in all environments.

TOKILED®

TokiLeds are durable, energy efficient and cost effective. Their unique phosphor-coated lens reflects light in all directions, resulting in full-range viewing.

White TokiLeds do an outstanding job of emulating true incandescent light. Our selection includes a variety of color temperatures and brightness levels.

2400K 3000K 6500K



Select from a wide range of vibrant colors.

Amber Blue Green Magenta Purple Red



TokiLeds			
Part Number	LED Color	Watts/Volts	Amps
TLED-WW	2400K White	0.1 W / 8VDC	12.5 mA
TLED-IW	3000K White	0.1 W / 8VDC	12.5 mA
TLED-WH	6500K White	0.1 W / 8VDC	12.5 mA
TLED-WW-HB	2400K White	0.2 W / 8VDC	25.0 mA
TLED-IW-HB	3000K White	0.2 W / 8VDC	25.0 mA
TLED-WH-HB	6500K White	0.2 W / 8VDC	25.0 mA
TLED-WW-UB	2400K White	0.4 W / 8VDC	50.0 mA
TLED-IW-UB	3000K White	0.4 W / 8VDC	50.0 mA
TLED-WH-UB	6500K White	0.4 W / 8VDC	50.0 mA
TLED-AM	Amber	0.1 W / 8VDC	12.5 mA
TLED-BL	Blue	0.1 W / 8VDC	12.5 mA
TLED-GR	Green	0.1 W / 8VDC	12.5 mA
TLED-MG	Magenta	0.1 W / 8VDC	12.5 mA
TLED-PL	Purple	0.1 W / 8VDC	12.5 mA
TLED-RD	Red	0.1 W / 8VDC	12.5 mA

Kinetic TokiLeds

Kinetic TokiLeds include a microchip to create self-actuated flashing or cross-fading effects. Each LED operates independently for a totally random appearance. Kinetic TokiLeds do not require a controller, adding to the system's cost efficiency and reliability. They may also be mixed with static LEDs on the same fixture.



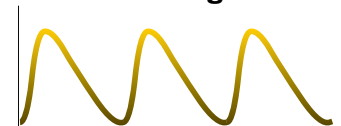
Kinetic TokiLeds			
Part Number	Effect	Color	Watts/Volts
KLED-FF	Fast Flash / 4 Hz	3000K White	0.2 W / 8VDC
KLED-SF	Slow Flash / 0.5 Hz	3000K White	0.2 W / 8VDC
KLED-CF	Cross-Fade	3000K White	0.2 W / 8VDC

Flashing



For twinkling effects, the cycle is 0.5 Hz. For faster scintillating effects, the cycle is 4 Hz.

Fading



Cross-Fading LEDs smoothly ramp up to full brightness, then gradually fade to off.

LED Drivers

Tokistar's LDR8-40 is a 40 Watt Class 2 LED Driver used to convert an AC input into an 8VDC output. It may be operated from a wide range of input voltages. The enclosure is suitable for wet locations.



LDR8-40

Specifications

Input Range: 100~240 VAC
 Frequency Range: 50/60 Hz
 Output: 8VDC (Adjustable +10% / -25%)
 Max. Output Current: 5.0A
 Max. Output Power: 40W
 Protection: Overload, Overcurrent, Short Circuit
 Operating Temperature: -30°C to +60°C

Mechanical Specifications

Dimensions: 3" x 9.75" x 2"
 Weight: 1.94 lbs
 Enclosure Rating: Nema 3/IP65
 Mounting: Flange Mount
 Connection: Knockouts for 1/2" Conduit

LED Capacity

0.10 Watt LEDs: 400 pieces
 0.20 Watt LEDs: 200 pieces
 0.40 Watt LEDs: 100 pieces

Tokistar's LDR8-80 is a dual output Class 2 LED Driver with two independent 40 Watt outputs. It may be operated from a wide range of input voltages. The enclosure is suitable for wet locations.



LDR8-80

Specifications

Input Range: 100~240 VAC
 Frequency Range: 50/60 Hz
 Output: 8VDC (Adjustable +5% / -30%)
 Max. Output Current: 10.0A (2 @ 5.0A)
 Max. Output Power: 80W (2 @ 40W)
 Protection: Overload, Overcurrent, Short Circuit
 Operating Temperature: -30°C to +60°C

Mechanical Specifications

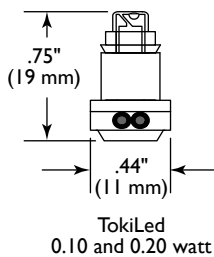
Dimensions: 3.6" x 11" x 2.25"
 Weight: 4 lbs
 Enclosure Rating: Nema 3/IP65
 Mounting: Flange Mount
 Connection: Knockouts for 1/2" Conduit

LED Capacity

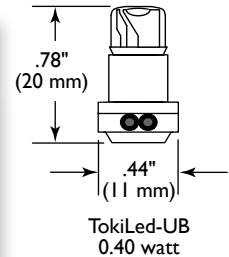
0.10 Watt LEDs: 800 pieces
 0.20 Watt LEDs: 400 pieces
 0.40 Watt LEDs: 200 pieces

Sizes and Lengths

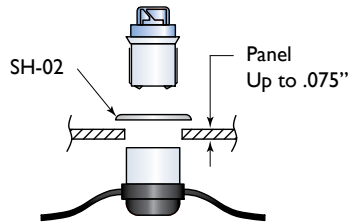
To minimize voltage drop and keep conductors safely within their rating, do not exceed the maximum lengths shown for each independent fixture. The low power consumption of Tokistar's energy-efficient LEDs permits longer fixture lengths.



Spacing	Maximum Run Lengths		
	0.1 Watt LED	0.2 Watt LED	0.4 Watt LED
2.40" (60 mm)	63' (19 M)	40' (12 M)	20' (6 M)
4.25" (110 mm)	84' (26 M)	63' (19 M)	35' (11 M)
6.25" (160 mm)	101' (31 M)	75' (23 M)	52' (15 M)
8.25" (210 mm)	116' (36 M)	87' (26 M)	56' (17 M)
12.25" (310 mm)	142' (43 M)	106' (32 M)	69' (21 M)
16.25" (410 mm)	164' (50 M)	122' (37 M)	82' (25 M)



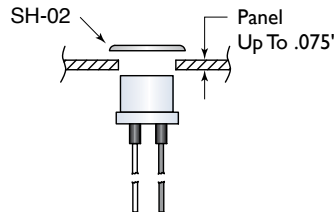
Accessories



Part#: SH-02

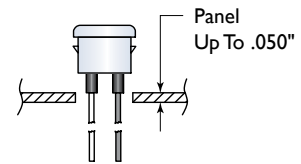
The SH-02 is a stainless steel fastener used to securely attach Lightstring sockets to panels through a 3/8"Ø hole.

For applications requiring independent points of light, our FL-200 & FL-300 sockets are provided with a 12" lead wire.



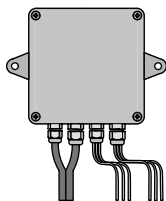
Part#: FL-200

This is a back-mount socket for use with the SH-02 fastener. Hole Size: 3/8"Ø



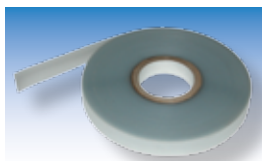
Part#: FL-300

For front-mount applications, this socket remains close to flush with the surface. Hole Size: 3/8"Ø



Part#: HC-10

This gasketed junction box accepts #12 AWG Landscape Cable, which may be spliced to 6 independent Lightstring fixtures (3 per output).



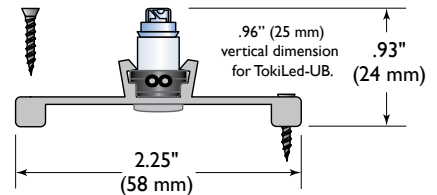
Part# NSY-TP

Clear elastic nursery tape may be used to secure Lightstrings to branches without prohibiting plant growth.



Part#: EC-FL

Lightstrings may be cut to size on site. Vinyl end caps insulate the end of the wire.



Part#: SL-MB-BK

These mounting brackets provide a convenient means of attaching Lightstrings to a variety of surfaces.

TOKISTAR® LIGHTING INC.

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