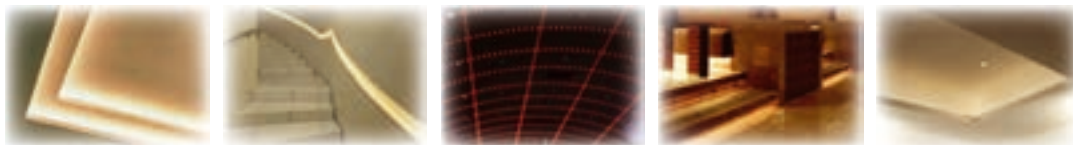


TOKISTAR Cable Lighting



TOKISTAR LIGHTING



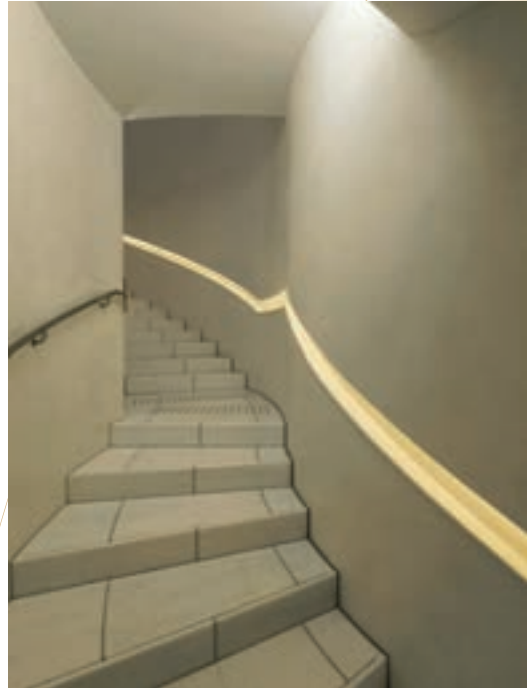
Cable Lighting Systems

Tokistar's innovative and versatile Cable Lighting Systems provide uniform soft illumination. Their compact profiles are easily incorporated into shallow ceiling coves, under step nosings, and other confined spaces. They are also a popular choice in exposed applications to highlight architectural details with distinct points of light.

We offer an assortment of energy-efficient LEDs in 2000K, 2500K, 3000K, 5000K and four vibrant colors to complement the environment. These long-lasting LEDs are the best choice in low-heat applications and locations subject to vibration. Two versions of incandescent lamps are also available.

All of our Cable Lighting Systems are wired in parallel. LEDs or lamps are individually replaceable, and fixtures can be easily trimmed on site to a precise length.

To add elegance or vibrant color, one of Tokistar's Cable Lighting Systems is sure to get the job done right.



CT "Contour" Series

The flexible CT Series follows curves in architectural designs to produce subtle indirect lighting from within confined spaces.

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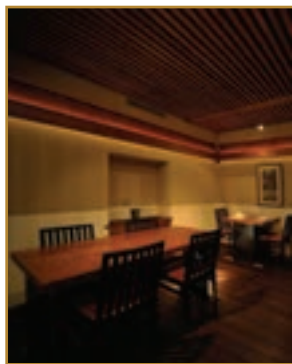
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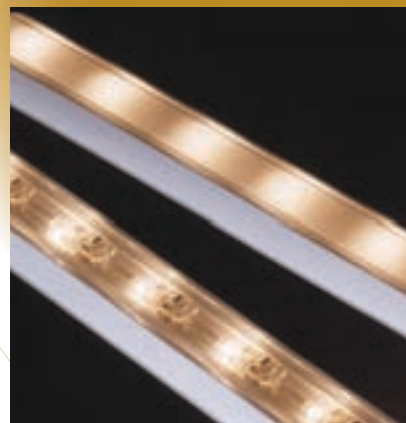
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Cover:
Tokistar 2500K LEDs
add a warm accent to this
restaurant interior.



An optional diffusion filter
is offered to soften the lighting effect.



RC "Recess" Series

The RC Series profile directs light down and across a 45° angle, making it the ideal choice for indirect lighting of step nosings and under a variety of cantilevered surfaces.



MC "Mini-Channel" Series

Our compact MC Series is the perfect choice for applications within the grooves of architectural elements, walls, ceilings, and floors.



CR "Crescent" Series

The wide-angle profile of the CR Series is designed for mounting in concealed or exposed 90° corners to illuminate shallow ceiling coves, cabinets, shelves and toe-kicks.



LEDs



2000K LED

Highly Efficient LEDs

Tokistar's solid-state LEDs consume only 0.2 Watts each and have remarkable life ratings. They generate very little heat and are easily dimmed on either DMX or 0/1-10VDC protocol.

Tokistar white LEDs are available in four color temperatures. Our 2000K creates a very elegant candlelight atmosphere. The 2500K and 3000K do an outstanding job of emulating the warmth of traditional incandescent light. The 5000K LED is ideal for adding cool-white color.

Blue, green, red and amber LEDs create vibrant color. Since LEDs can be removed easily from their sockets, multiple colors in the same fixture can create perfectly blended colors of indirect light.



2500K LED



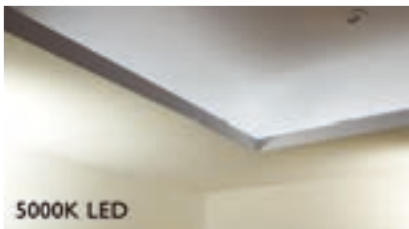
Red LED



3000K LED



Green LED



5000K LED



Amber LED

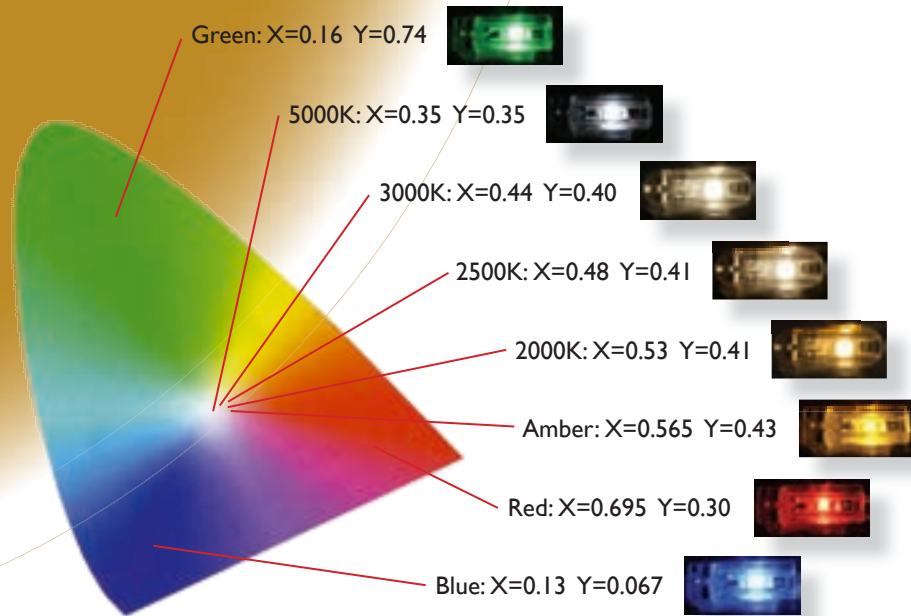


Blue LED

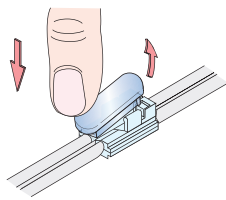


Alternating Blue and Green LEDs creates Teal.

LEDs



Cable Lighting systems are easy to maintain. Fingertip pressure to the LED releases it from the socket for easy and quick relamping.



Part Number	LED Color	Watts/Volts	Amps	Life
CLED-2000K	2000K	0.2 W / 8 VDC	25.0 mA	40,000 - 50,000 Hours
CLED-2500K	2500K	0.2 W / 8 VDC	25.0 mA	40,000 - 50,000 Hours
CLED-3000K	3000K	0.2 W / 8 VDC	25.0 mA	40,000 - 50,000 Hours
CLED-5000K	5000K	0.2 W / 8 VDC	25.0 mA	40,000 - 50,000 Hours
CLED-BL	Blue	0.2 W / 8 VDC	25.0 mA	40,000 - 50,000 Hours
CLED-GR	Green	0.2 W / 8 VDC	25.0 mA	40,000 - 50,000 Hours
CLED-RD	Red	0.2 W / 8 VDC	25.0 mA	80,000 - 100,000 Hours
CLED-AM	Amber	0.2 W / 8 VDC	25.0 mA	80,000 - 100,000 Hours

Life for LEDs is defined as the time when lumen output depreciates to 70% of its initial value. Actual lifetime may vary based upon environmental conditions.

Incandescent

Incandescent Light Sources

Two styles of warm white incandescent lamps are available for Cable Lighting systems. The CL-202 is the standard selection, offering a good balance of 2.1 lumens and a 2000K color temperature. Specify the CL-201 to decrease the lumens and color temperature.



Incandescent 0.48 W (CL-201)



Incandescent 0.9 W (CL-202)

Part Number	Color Temperature	Watts/Volts	Lumens	Life
CL-201	1800K	0.48 W / 12 VAC	0.44	20,000 Hours
CL-202	2000K	0.90 W / 12 VAC	2.1	20,000 Hours

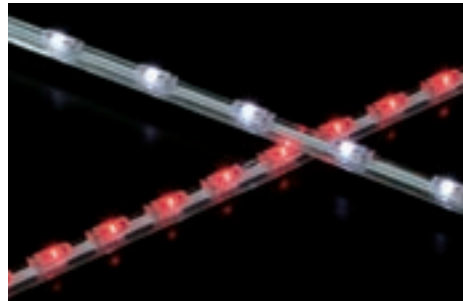
Life is determined by the industry standard Mean Time Before Failure (MTBF) method, defined as the time when 50% of lamps fail.



CT Series



The CTO "Contour" Series is extremely compact and flexible. It is easily incorporated under shallow overhangs or within very tight architectural details. The CTL Series includes a rigid prismatic lens to magnify the light source for greater impact in exposed linear applications.



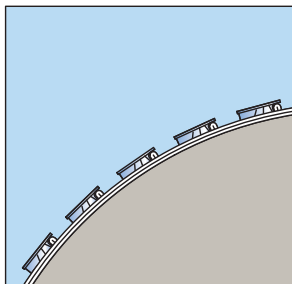
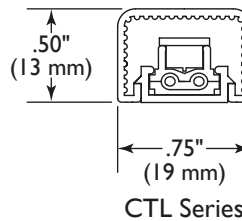
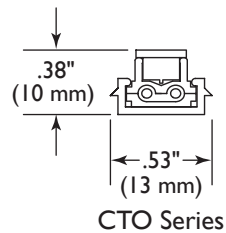
CTO - 50 - 2000K

Design Guidelines

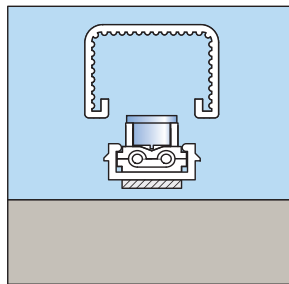
Socket Spacing

For indirect applications without the lens cover, 1.2" or 2" spacing is recommended. In exposed applications, the prismatic lens spreads and magnifies the light so more distant spacings can achieve the desired effect. In this case, spacing of 3", 4" or 6" is best.

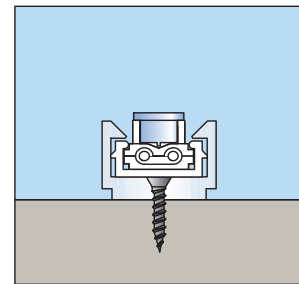
Series		Socket Spacing		Light Source		
Code	Description	Code	Inches (mm)	Code	Style	Watts/Volts
CTO	No Lens	30	1.2" (30 mm)	2000K	2000K LED	0.2 W / 8VDC
CTL	Clear Lens	50	2.0" (50 mm)	2500K	2500K LED	0.2 W / 8VDC
CTLD	Clear Lens With Diffuser	80	3.0" (80 mm)	3000K	3000K LED	0.2 W / 8VDC
		100	4.0" (100 mm)	5000K	5000K LED	0.2 W / 8VDC
		150	6.0" (150 mm)	AM	Amber LED	0.2 W / 8VDC
				BL	Blue LED	0.2 W / 8VDC
				GR	Green LED	0.2 W / 8VDC
				RD	Red LED	0.2 W / 8VDC
				201	Incandescent	0.48 W / 12VAC
				202	Incandescent	0.90 W / 12VAC



Series CTO conforms to a 24" radius facing in or out.



CTO and CTL Series attached with adhesive.

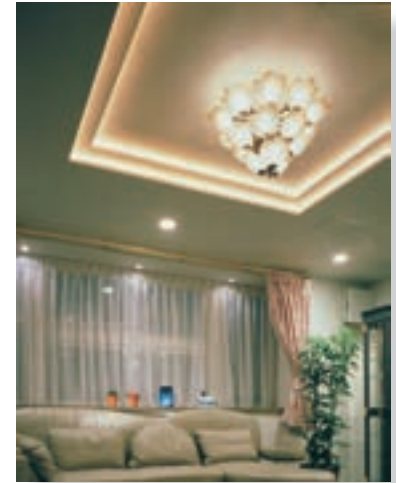
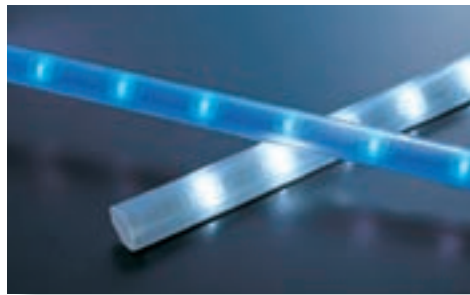


CTO Series attached with CTO-CP mounting clamp.



CR Series

The CR "Crescent" Series unique profile focuses light in the optimal direction from 90° corners. CR can be specified with or without a protective lens cover. Fixtures are easy to mount and held securely in place with high-bond adhesive tape.



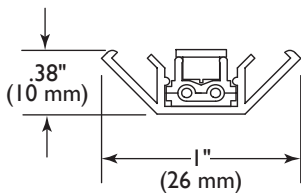
CRL - 50 - 2500K

Design Guidelines

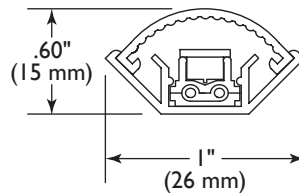
Socket Spacing

For indirect applications requiring maximum output, 1.2" spacing works best. For more subtle indirect effects, 2" or 3" spacing offers greater economy. For more distant viewing, 4" or 6" is the best choice.

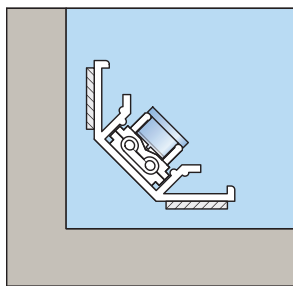
Series		Socket Spacing		Light Source		
Code	Description	Code	Inches (mm)	Code	Style	Watts/Volts
CRO	No Lens	30	1.2" (30 mm)	2000K	2000K LED	0.2 W / 8VDC
CRL	Clear Lens	50	2.0" (50 mm)	2500K	2500K LED	0.2 W / 8VDC
CRLD	Clear Lens With Diffuser	80	3.0" (80 mm)	3000K	3000K LED	0.2 W / 8VDC
		100	4.0" (100 mm)	5000K	5000K LED	0.2 W / 8VDC
		150	6.0" (150 mm)	AM	Amber LED	0.2 W / 8VDC
				BL	Blue LED	0.2 W / 8VDC
				GR	Green LED	0.2 W / 8VDC
				RD	Red LED	0.2 W / 8VDC
				201	Incandescent	0.48 W / 12 VAC
				202	Incandescent	0.90 W / 12 VAC



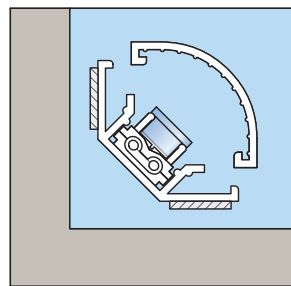
CRO Series



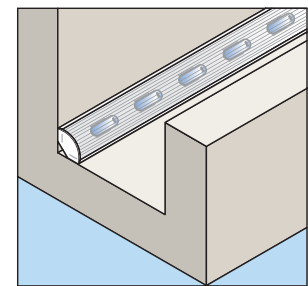
CRL Series



CRO Series attached with adhesive.



CRL Series attached with adhesive.



Fixture fits neatly into 90° corner details.



RC Series



The RC "Recess" Series is designed for indirect lighting applications from within confined spaces. When recessed neatly under a step nosing, it will cast light down the riser and across the lower step. RC series is also ideal for use in cabinets, and beneath railings and ledges.



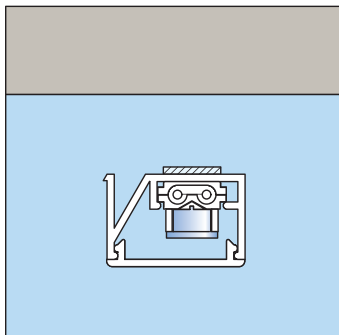
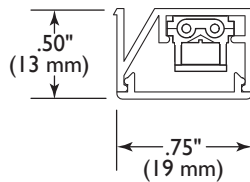
RC - 50 - 3000K

Design Guidelines

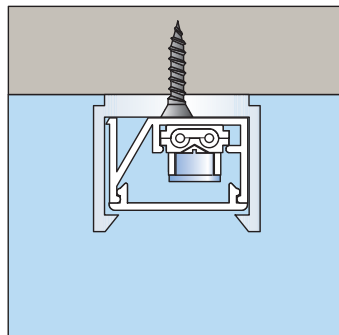
Socket Spacing

Since RC is designed for use as an indirect source, closer spacing produces the best effects. When the fixture is placed close to the reflective surface, such as under a step nosing, we recommend 1.2" spacing for a very uniform wash of light.

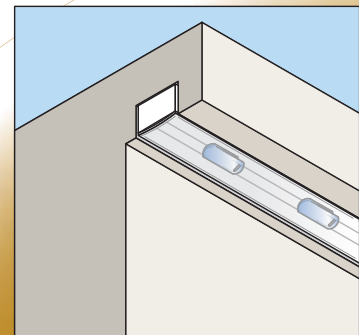
Series		Socket Spacing		Light Source		
Code	Description	Code	Inches (mm)	Code	Style	Watts/Volts
RC	Clear Lens	30	1.2" (30 mm)	2000K	2000K LED	0.2 W / 8VDC
RCD	Clear Lens With Diffuser	50	2.0" (50 mm)	2500K	2500K LED	0.2 W / 8VDC
		80	3.0" (80 mm)	3000K	3000K LED	0.2 W / 8VDC
		100	4.0" (100 mm)	5000K	5000K LED	0.2 W / 8VDC
		150	6.0" (150 mm)	AM	Amber LED	0.2 W / 8VDC
				BL	Blue LED	0.2 W / 8VDC
				GR	Green LED	0.2 W / 8VDC
				RD	Red LED	0.2 W / 8VDC
				201	Incandescent	0.48 W / 12 VAC
				202	Incandescent	0.90 W / 12 VAC



RC Series attached with adhesive.



RC Series attached with RC-CP clamp.

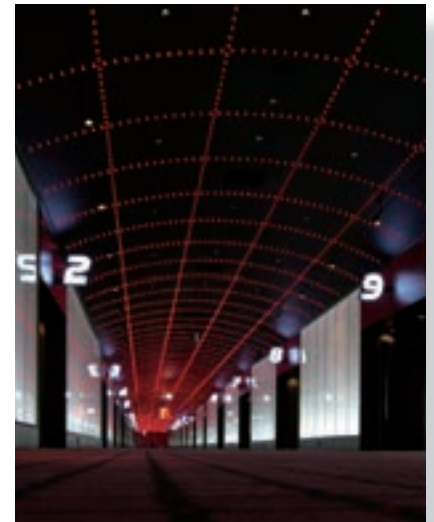


RC Series is for use as an indirect light source under overhangs.



MC Series

The MC "Mini-Channel" Series compact size makes it ideal for use in grooves, slots and other recesses. A removable lens diffuses the light and withstands impact from foot traffic. For applications where the fixture is to be seen from all angles, the base can be specified as clear.



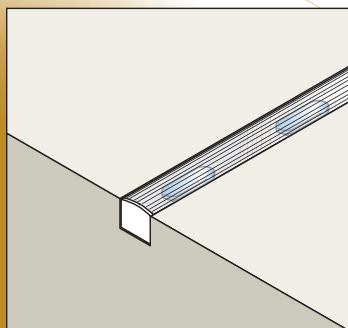
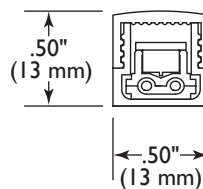
MCW - 50 - 5000K

Design Guidelines

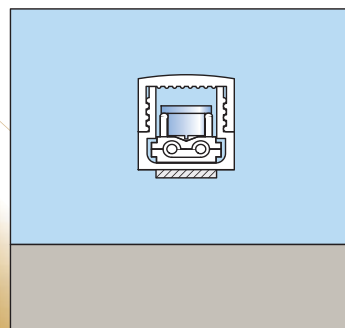
Socket Spacing

For indirect applications, 1.2" or 2" spacing produces the best effects. For points-of-light effects in exposed applications, we recommend 3", 4" or 6" spacing.

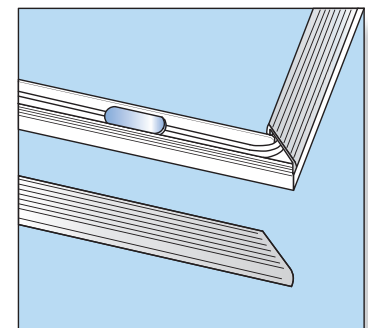
Series		Socket Spacing		Light Source		
Code	Description	Code	Inches (mm)	Code	Style	Watts/Volts
MCC	Clear Base	30	1.2" (30 mm)	2000K	2000K LED	0.2 W / 8VDC
MCCD	Clear Base & Diffuser	50	2.0" (50 mm)	2500K	2500K LED	0.2 W / 8VDC
MCW	White Base	80	3.0" (80 mm)	3000K	3000K LED	0.2 W / 8VDC
MCWD	White Base & Diffuser	100	4.0" (100 mm)	5000K	5000K LED	0.2 W / 8VDC
		150	6.0" (150 mm)	AM	Amber LED	0.2 W / 8VDC
				BL	Blue LED	0.2 W / 8VDC
				GR	Green LED	0.2 W / 8VDC
				RD	Red LED	0.2 W / 8VDC
				201	Incandescent	0.48 W / 12 VAC
				202	Incandescent	0.90 W / 12 VAC



MC Series is durable enough to withstand foot traffic.



MC Series attached with adhesive.



MC Series may be cut to size and mitered in the field.



LED Drivers

LDR8-40

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.



Specifications

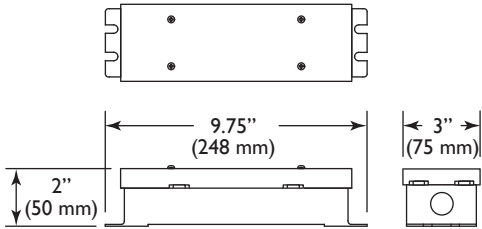
Input Range: 100~240 VAC
Frequency Range: 50/60 Hz
Output: 8VDC (Adjustable +10% / -25%)
Max. Output Current: 5.0A
Max. Output Power: 40W
Protection: Overload, Over current, Short Circuit
Operating Temperature: -30°C~+60°C

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

0.2 Watt LEDs: 200 pieces



LDR8-80

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.



Specifications

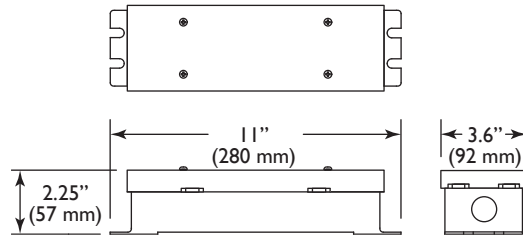
Input Range: 100~240 VAC
Frequency Range: 50/60 Hz
Output: 8VDC (Adjustable +5% / -30%)
Max. Output Current: 10.0A (2 @ 5.0A)
Max. Output Power: 80W (2 @ 40W)
Protection: Overload, Over current, Short Circuit
Operating Temperature: -30°C~+60°C

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

0.2 Watt LEDs: 400 pieces



Transformers

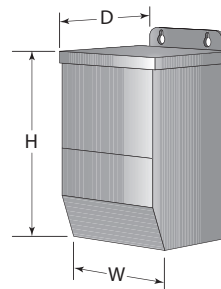
The incandescent version of Cable Lighting operates from Class 2 transformers with 12VAC outputs. Secondary circuits are limited to 5 Amps (60 Watts at 12 Volts). Primary input is 120VAC/60 Hz.

Larger capacity Class 2 transformers are available with multiple secondary outputs. Each output is limited to 60 Watts at 12 Volts. Primary input is 120VAC/60 Hz. For other input voltages, consult factory.

Part Number	Outputs	D	H	W	Weight
C2-60-12V	1 @ 60 Watt / 12VAC	2.3"	6.6"	2.6"	3 lbs
C2-120-12V	2 @ 60 Watt / 12VAC	5.0"	7.0"	5.0"	12 lbs
C2-180-12V	3 @ 60 Watt / 12VAC	5.0"	7.0"	5.0"	16 lbs
C2-240-12V	4 @ 60 Watt / 12VAC	5.0"	7.0"	6.0"	16 lbs
C2-300-12V	5 @ 60 Watt / 12VAC	5.0"	7.0"	6.0"	16 lbs



Tokistar Cable Lighting is ETL Listed when operated from our Class 2 LED Drivers and Transformers



LED Dimmers

LC-1CH-MULTI Dimming System

Tokistar's LC-1CH-MULTI Dimmer Pack is compatible with industry-standard dimmers working on DMX or 0/1-10VDC protocol. In the manual mode, a preset light level can be set without the use of an external dimmer.



Part #: LC-1CH-MULTI

Technical Specifications:
 Max. Load: 40 Watts @ 8VDC
 Environmental Rating: Dry Location/IP20
 Dimensions: 3/4" x 1-3/4" x 3-1/2"
 Weight: 50g / 0.11 lbs
 Listing: ETL Listed/CE Certified
 Operating Temperature: 0~+50°C

DMX Mode

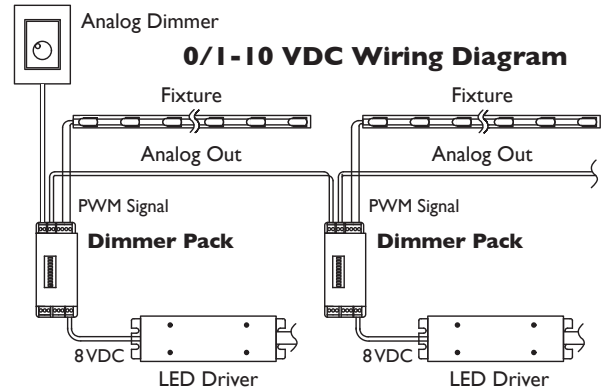
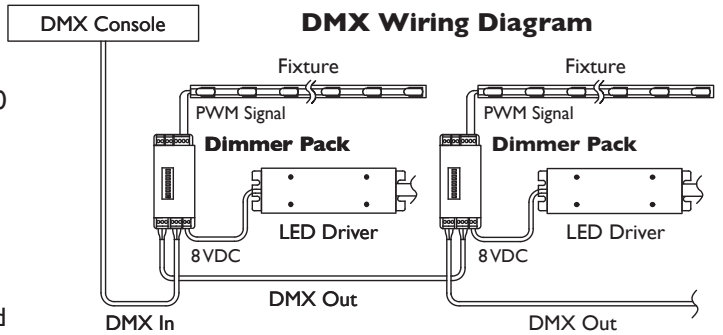
In this mode, dimmer packs are addressable and may be used with any controller working on DMX protocol. Up to 36 dimmer packs may be connected in series. For applications exceeding 36 dimmer packs, an additional feed from the DMX dimmer is required. The additional feed(s) can be sent directly from the dimmer, or you may specify DMX Splitters. Consult factory on details of DMX Splitters.

Analog Mode 0/1-10VDC

For operation from devices using 0/1-10VDC protocol, up to 10 dimmer packs may be connected in series. For applications exceeding 10 dimmer packs, an additional feed from the analog dimming device is required.

Manual Mode

You may select a light intensity at which the fixtures operate. In this case, no external dimming device is required.



LC Dimming System

This proprietary Dimming System provides full-range dimming of Cable Lighting LEDs. The system components connect with CAT5 cable. Up to 25 dimmer packs may be connected in series if the total length of all CAT5 cable does not exceed 165 feet from the wall dimmer to the last dimmer pack. CAT5 cables are included with units.



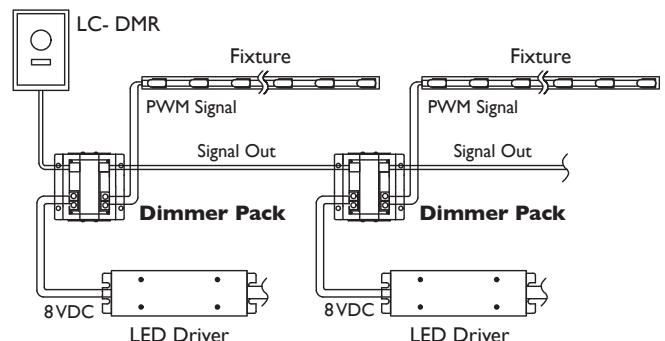
Part #: LC-DMR

The remote wall dimmer has a rotary dial and on/off switch. Power to the wall dimmer is provided from the LED Driver powering the first dimmer pack. The unit installs in a single-gang box.



Part #: LC-1CH-DP

Each dimmer pack is capable of operating up to 200 Cable Lighting LEDs. Dimensions: 1-1/2" x 3-1/2" x 4-1/16"



Specifications

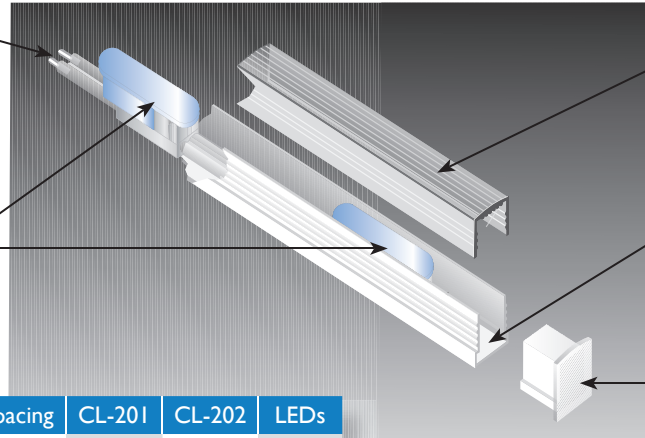
Conductors are 18 AWG, PVC insulated with flammability rating: UL 94-HB

Light sources are replaceable 8VDC LEDs or 12VAC incandescent lamps

Clear lenses are extruded, UV-stabilized polycarbonate with flammability rating: UL 94V-O

Bases are clear or white UV-stabilized, extruded polycarbonate with flammability rating: UL 94V-O

End caps are white molded silicone



Model	Spacing	CL-201	CL-202	LEDs
30	1.2"	12'	6'	20'
50	2.0"	20'	11'	33'
80	3.0"	24'	16'	50'
100	4.0"	30'	21'	60'
150	6.0"	36'	26'	70'



Maximum Run Lengths

To minimize voltage drop and keep conductors safely within their rating, do not exceed the maximum lengths shown for each independent Cable Lighting fixture.

Accessories

Adhesive Tape



High-bond adhesive tape may be used to secure the fixtures in place.

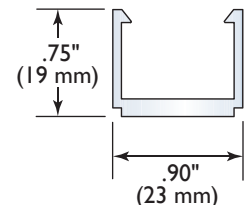
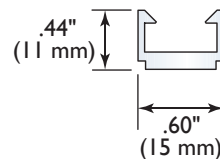
Part Number	Width	Roll Size
WF-CL20	5/16"	20 ft
WF-CL50	5/16"	50 ft

Mounting Clamps



Part#: CTO-CP

Part#: RC-CP



End Caps

Decorative end caps are available as an option. If individual fixtures are positioned end to end, long runs of product may require only two. Framed applications (such as rectangular layouts) may require no end caps at all.



Part#: CT-EC

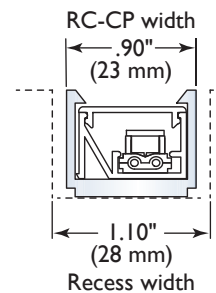
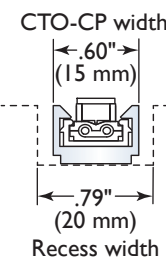
Part#: CR-EC

Part#: RC-EC



Part#: MC-EC

Part#: MC-ECL



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