EXPORT SLIM FLEXIBLE CATHODE LIGHT STRIP

(Models FCLS-Slim-EX & HFCLS-Slim-EX)



Patent 7,293,895 Patent 6,454,431 British Patent No. GB2431463B





The Slim Flexible Cathode Light Strip (FCLS-Slim-EX) effectively brings cold cathode lighting into the 21st century, and in the smallest package ever available. All the best features of shadowless long-life, cold-cathode fluorescent lighting have been engineered into a simple, self-contained, discreet, flexible fitting which allows lamps to be easily snapped in and out, just like a regular fluorescent batten. The FCLS-Slim-EX combines incredibly low electrical power consumption, high lumens, and long lamp life, offering a far better engineered and contractor-friendly alternative to traditional rubber boot, bare tube and ballast cold cathode systems.

Each beautifully-designed fitting can conform to almost any shape or size (straight, curved or bent) of Cathode Lighting Systems' custom or standardized lamps, in an almost infinite variety of deeply-saturated colors and high color-rendering whites. The Slim Flexible Cathode Light Strip (FCLS-Slim-EX) is completely modular, and is the smallest cold cathode fitting available anywhere (41mm wide and 60mm tall, including the lamp). The FCLS-Slim-EX installs in minutes, and offers the convenience of a simple modular connection method between fittings. Lamps simply snap in and out, and all fittings are provided with integral, inaudible 1% electronic dimming ballasts.

With lamp life as long as 100,000 field-proven hours and watt consumption as low as 14.6 watts per meter, this phenomenal product is perfect for all your indirect cove applications.



"FLEXIBLE CATHODE LIGHT STRIP...BECAUSE THE WORLD IS ROUND"

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EXPORT SLIM FLEXIBLE CATHODE LIGHT STRIP (Models FCLS-Slim-EX & HFCLS-Slim-EX)

-EX) FEATURES & BENEFITS DIMENSIONS MOUNTING RECOMMENDATIONS

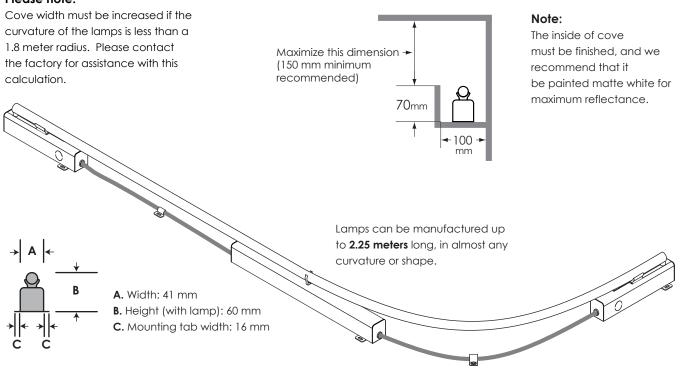
FEATURES & BENEFITS

- Illumination is seamless from end to end, with no dark spots or socket shadows
- Each fitting can flex and conform to almost any length or shape lamp Cathode Lighting Systems manufactures, up to 2.25 meters in length
- Reliable, ultra long-life, high color-rendering T6 cold cathode lamps (up to 100,000 hours of life)
- Up to 184 meters of fittings on one 20-amp circuit @ 230 volts
- Lamps easily snap in and out of fittings via innovative zero-clearance lamp bases and lampholders and lock securely in place
- Contractor friendly and beautifully engineered, unlike traditional rudimentary cold cathode systems, no twisting of wires, insulating rubber boot installation or lamp stanchion fixing is necessary to install or replace a lamp
- Fittings daisy-chain together utilizing quick-connect wiring cables
- Very small profile only 41 mm wide and 60 mm tall with lamp installed
- Dimmable 1% integral electronic ballasts offer inaudible operation and a power factor >.95
- Outstanding dimming performance using 2-wire trailing-edge dimmers
- Available in standard output (up to 1614 lumens per meter / FCLS-Slim-EX) or high-efficiency (up to 1050 lumens per meter / HFCLS-Slim-EX)



DIMENSIONS & MOUNTING RECOMMENDATIONS

Please note:





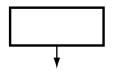
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LAMP COLORS, LUMENS & EFFICACIES

Cat. No.	Description	FCLS-Slim-EX Lum./Meter	HCLS-Slim-EX Lum./Meter	Efficacy
19TC	Candelight - 1900°K	941	626	77.2 lumens/watt
23TC	Golden White - 2300°K	1378	918	77.2 lumens/watt
24TC	Sunrise - 2400°K	1528	1020	77.2 lumens/watt
25TC	Incandescent - 2500°K	1486	991	77.2 lumens/watt
27TC	Warmtone - 2700°K	1335	889	77.2 lumens/watt
29TC	Warm White - 2900°K	1542	1027	77.2 lumens/watt
30TC	Warmlight - 3000°K	1574	1050	76.2 lumens/watt
35TC	Soft white - 3500°K	1614	1076	78.2 lumens/watt
42TC	Satin white - 4200°K	1561	1040	75.3 lumens/watt
63TC	Ice white - 6300°K	1515	1010	73.2 lumens/watt
83TC	Daylight - 8300°K	1502	1000	75.4 lumens/watt

Photometric information: All photometric values provided by LTL (Luminaire Testing Laboratories, Allentown, PA and Cathode Lighting Systems Inc. USA).

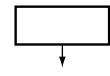
ORDERING INFORMATION



Model:

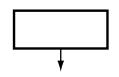
FCLS-Slim-EX Export Slim Flexible Cathode Light Strip (standard light output)

HFCLS-Slim-EX Export High-efficiency Slim Flexible Cathode Light Strip (reduced light output)



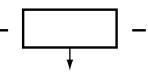
Length:

Lengths are expressed in meters to the nearest .25 meter



Lamp Type:

S: Straight **C:** Curved



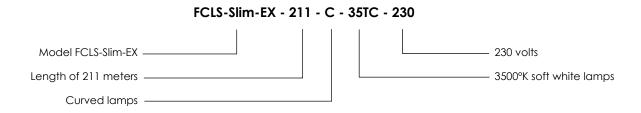
Lamp Color:

See color chart above for correct catalog numbers 230 - 230 volts

Voltage:

If color has not been chosen at time of specification, please write: **TBD**

Example: One circular light cove, 211 meters in circumference. Lamp color is 3500°K soft white. Fittings will operate at 230 volts.





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EXPORT SLIM FLEXIBLE CATHODE LIGHT STRIP (Models FCLS-Slim-EX & HFCLS-Slim-EX) ELECTRICAL INFORMATION & SPECIFICATIONS

ELECTRICAL INFORMATION

Model	Voltage	Primary Amps Per Fitting	Dimming Method	Watts per Meter	
FCLS-Slim-EX	230 volts	.20	Trailing-Edge	18 watts per meter	
HFCLS-Slim-EX	230 volts	.17	Trailing-Edge	14.6 watts per meter	

*Values are based on all fitting lengths at 2.25 meters. FCLS-Slim-EX fittings should be powered by a dedicated circuit only. Circuit shall be provided with over-voltage and surge protection.

Please note: The factory supplied fitting interconnection cable cointains 1.5 mm conductors. **Do not** exceed the maximum amperage limitation of a 1.5mm conductor when calculating the number of fittings per circuit.

DIMMING

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Fittings are dimmable utilizing 2-wire trailing-edge dimmers.

SPECIFICATIONS

Fitting: Shall be Cathode Lighting Systems model FCLS-Slim-EX (Export Slim Flexible Cathode Light Strip) or HFCLS-Slim-EX (Export High-Efficiency Slim Flexible Cathode Light Strip), and shall provide a continous, uninterrupted line of light when installed as instructed. Fittings shall be pre-assembled, satin-anodized 1.25 mm aluminum with a snap-fit cover and one (1) integral, dimmable electronic ballast. Fittings shall flex and conform to lamp shapes and lengths required and shall be provided with an interconnection cable for electrical connection to each other and mains power.

Lamps: Shall be 100,000-hour (HFCLS-Slim-EX) or 75,000 hour (FCLS-Slim-EX) T6 cold-cathode fluorescent, color as specified. Lamps shall be provided with single-pin bases for zero-clearance snap-in installation and removal from lampholders. Lamps that are hard-wired to the ballast are not acceptable alternatives. Lamps shall be manufactured with butt-sealed ends and in custom lengths/curvatures to follow the architectural details and to provide complete illumination at each lamp end, and shall have provisions to be locked into place, utilizing the fitting's lamp-locking clips. Manufacturer shall provide independent test lab reports to substantiate lumen output.

Integral Ballasts: Shall be noiseless electronic 990-volt, high-output, instant-start cold cathode, class P thermally protected, and shall automatically de-energize upon removal of lamps from the fitting. Ballast power factor shall be >.95.

Dimming: Fittings shall be independently dimmable via trailing-edge 2-wire dimmers, and shall dim to 1%.

Approvals: Fittings shall be UL and cUL-listed under UL category: IEUZ Fluorescent surface-mounted luminaires

Manufacturer: Shall be Cathode Lighting Systems Inc., Gaithersburg, MD - USA 001-301-921-4120 Website: www:CathodeLightingSystems.com



Lamp Color & Lumen Output Information

	Lumens per Meter				
	Lamp Color	Kelvin Temperature	Catalog Number	FCLS-Slim-EX	HFCLS-Slim-EX
	Candlelight	1900° K	19TC	941	626
	Golden White	2300° K	23TC	1378	918
	Sunrise	2400° K	24TC	1528	1020
	Incandescent	2500° K	25TC	1486	991
	Warmtone	2700° K	27TC	1335	889
	Warm White	2900° K	29TC	1542	1027
	Warmlight	3000° K	30TC	1574	1050
	Soft White	3500° K	35TC	1614	1076
	Satin White	4200° K	42TC	1561	1040
	Ice White	6300° K	63TC	1515	1010
	Day Light	8300° K	83TC	1502	1000
	Pink White	N/A	PW	991	659
	Deep Blue	N/A	DB	1151	768
	Sky Blue	N/A	SB	1404	935
	Aqua	N/A	AQ	1319	879
	Turquoise	N/A	TQ	1624	1082
	Green	N/A	GR	1571	1046
	Bright Green	N/A	BG	1650	1099
	Gold	N/A	GD	833	554
	Yellow	N/A	YL	895	597
	Salmon Pink	N/A	SP	915	610
	Purple	N/A	PR	823	548
	Hot Pink	N/A	HP	905	604
	Red	N/A	RD	394	262
	Orange	N/A	OR	659	440

Photometric information: All photometric values provided by LTL (Luminaire Testing Laboratories, Allentown, PA) and Cathode Lighting Systems Incorporated, USA.



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