OPTILED

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1KT-639/03/

саьсер® A Revolution in LED Linear Lighting

AQUATIC 5000

FLEXI-PRO 8000

FLEXI-PRO 8000 HIGH BRIGHTNESS



CableD

Welcome to CALLED, the latest LED lighting solutions. The result of strong R&D efforts, CALLED is a revolutionary technology designed for indoor and outdoor environments which allows you to create brilliant lighting in areas you could never illuminate before without the cost of extensive retooling or complex installation procedures. CABLED' is the only LED linear lighting solution which offers both supremely flexible, cost efficient installation and exceptional lighting performance with total reliability.

* US Design Patent No. D635 930 S



Awards



Spark Pro Bronze Award 2011 the SparkAwards



Most Innovative Product Design Award 2011 by Hong Kong Perspective Magazine



CREATIVITY AWARD Innovation And Creativity Award 2009 by Hong Kong Awards For Industries

FLEXI-PRO 8000 & HIGH BRIGHTNESS (HB)





AQUATIC 5000





BENEFITS OF THE COULED SERIES

Energy Efficient and Eco Friendly

CALLED uses significantly less energy than traditional light sources and generates no harmful ultra violet or infrared emissions. They are RoHS-compliant and free of mercury and other toxic substances.



Cool Lighting Solution

САРГЕД

Unlike conventional LED strips that use "Flexible PCB" conductors which often leads to overheating, CALLED combining cable and LED technology generates up to 40% less heat and therefore contributes to reduced air conditioning and cost.

Superior Brightness and Quality

Incorporating advanced LEDs from Cree, CALLED meets the most stringent international CE & UL certification standards and reliability standards of brightness with up to 440 lumen per meter. CALED provides up to 35,000 hours of high quality performance – 35 times longer than an average incandescent bulb.

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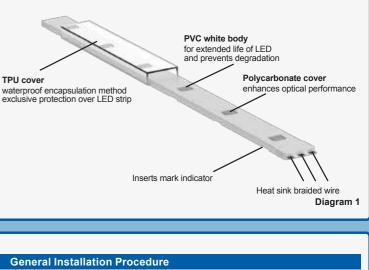
Flexing and bending conventional LED strips may create cracks on the "Flexible PCB" leading to malfunctions. CableD, however, is much more durable and reliable due to the cable technology used. (Please refer to Diagram 1)

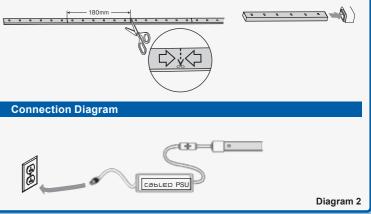


Flexibility and Versatility

CALLED can be cut into segments and installed easily anywhere with a wide variety of convenient accessories which makes the user's life easier. With few or no accessories available for conventional LED strips, installation is more demanding and may require professional skills. Most conventional strips are only 10 meters long at best, which creates further challenges for the installer. CALLED, however, offers continuous run strips of up to 25 meters.

CALLED Structure





CableD[°] vs competition products

	саьсер	Fluorescent Tube	Other linear light strip in the market
Length	Flexible length	2ft, 3ft, 4ft, 5ft, 6ft, 8ft	Flexible length
Max. connection per power supply	25M	1.8M	less than 10M
Applications	Indoor, outdoor and underwater	Indoor	Indoor, outdoor
Allow the user to cut and reconnect	Yes, with mounting options and accessories	No	Yes, but only the technicians can do it; soldering is required
Accessories	Full range	No	Very limited
Safety	DC low voltage device (24V DC), safe for normal installation	Low voltage, high frequency, AC device; require certified technician for installation	DC low voltage device (12V DC), safe for normal installation
Life Time	Up to 35,000 hours	Approximately 10,000 hours	Up to 20,000 - 35,000 hours
Surface Temperature	Up to 50 deg C	65 deg C	Up to 80 deg C



UV Resistant

CALLED[°] uses of UV-protected material, no degradation and discoloring under direct sunlight, enhance product durability and lifetime.



Salt Water Resistant Test



Result : саьсер' 5000 sample is still in operation and without any material property change

САРГЕД





*All tested samples claimed to be waterproof, tested using solution with salt concentration equivalent to that of sea water for 30 days.



Salt Water Resistant

CAPTED, is fully sealed off from water and uses anti-salt protection coating ensures product lifetime, enhance product durability and unlike many LED liner strip products in the market, it is free of harmful substances which is safe and reliable.

MENT HE



Competitor Sample C

Result : Connectors are being oxidized, electrolysis 11-2 -14-34 happened along the strip and the sample is no



application.

Fire - Retardant

IP68

CALLED tested & fulfilled glow wire flammability test at 650°c, providing extra level of fire safety for common areas, public transportation and hotels projects especially in those environments of higher fire risks.

Weather and Waterproof

CALLED'is ideal for all weathers and conditions. The Aquatic 5000 series is fully encapsulated and can be used for outdoor and underwater

IP65 Aquatic 5000

Flexi-Pro 8000



*Ignited and withstand 650°c high temperature for 30 sec, the contact point ignited becomes non-combustible within seconds.



Surface Pressure Test

CableD^{*} tested with 200N / cm² on LED surface for one minute.



Sample A : A number of LEDs are off. CAPLED: саьсер'8000 still lights up and without any noticeable change.

longer functioning within hours







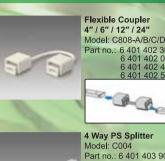
FLEXI-PRO 8000 & HIGH BRIGHTNESS (HB)

The easiest and most versatile indoor and outdoor water resistant lighting solution up to 440 lumen per meter

ACCESSORIES

• Bonding, linking, extending and adapting are the principal functions of the wide series of accessories which enhance the versatility of the COBLED range of lighting strips.

Connectors







PRODUCT FEATURES

Water resistant **IP65** conform to IP65



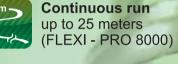




high evenness of color and light spread



Customized can be freely customized any length in multiple of 180mm



Cove Indoor

BENEFITS

- Flexibility and unique properties Lends itself to creative lighting design
- Easy installation Suitable for various mounting methods
- Safe Virtually unbreakable and free of harmful substance

IDEAL FOR

Indoor

- Cove and contour lighting
- Ambient shops
- Backlighting for special situations where normally mounting a lighting fixture would be extremely difficult
- Outdoor
- Gardens
- Patios Facade

Pergolas

• Architectural • Landscape highlights lighting



FLEXI-PRO 8000 & HIGH BRIGHTNESS(HB)







Specifications						
Product Name	FLEXI-PRO 8000 LED Strips (30mm LED Pitch)		FLEXI-PRO 8000 High Brightness (HB) LED Strips (30mm LED Pitch)			
Model	C8K-A0-28L3B	C8K-A0-35L3B	C8K-A0-65L3B	C8K-A0-28M3B	C8K-A0-65M3B	
Part No.	4037051305	4037050105	4037060105	4037283011	4037653011	
Color	War	m White	Daylight	Warm White	Daylight	
Color Temperature (CCT)	2800 K	3500 K	6500 K	2800 K	6500 K	
Color Rendering Index (CRI)	80 Ra	80 Ra	72 Ra	80 Ra	72 Ra	
Input Voltage		24V DC		24V	24V DC	
Rated Current		154 mA		300	mA	
Lumen Output per meter	15	50 lm	180 lm	400 lm	440 lm	
Total Power per meter		3.7 W		6.7	W	
Lumen Efficacy	41	lm/W	49 lm/W	60 lm/W	66 Im/W	
Radiation Angle		110°		12)°	
Minimum Bending Radius		100mm		100mm		
Maximum Connection Length#		25 m		10	m	
Life Span	35,000 hrs*					
Operating Temperature	-20°C ~ +50°C					
Storage Temperature			-25°C ~ +60°C			
Maximum Loading Force			10 kg			
Flammability	Flame Retardant					
Application	Outdoor					
IP Rating			IP65			
Dimmable			Yes			
RoHS	Yes					
Packing						
саьсер	25m per reel [△]			10m pe	er reel [△]	
Mechanical						
Dimension			12 mm(W) x 5.5 mm(H)			
Segment Length	18 cm					
Number of LEDs			6 per segment			
LED Pitch			30 mm			
Weight			100 g/m			
Material	UV/I	R protected PVC, RoHS Cor	npliant	UV/IR protected TP	U, RoHS Compliant	

* The designed lifetime is under 24V DC at top 25°C, with 70% lumen maintenance.

△ Please contact our representative for packing detail



LED Driver for CableD

Product Name	LED Driver 24V DC 18 W	LED Driver 24V DC 30 W	LED Driver 24V DC 60 W	LED Driver 24V DC 100 W
Part No. (UK/HK plug) (Australia plug) (Europe plug) (Europe & Asia without plug)	5420101817 5424101817 5432101817 5440101817	5421103017 5425103017 5433103017 5441103017	5422106017 5426106017 5434106017 5442106017	5423110017 5427110017 5435110017 5443110017
Input Voltage			IOV AC	
Rated Current	0.3	3A	0.4A	0.6A
Rated Frequency	50/60Hz			
Output Voltage		24V	DC	
Output Current	0.75 A max.	1.25 A max.	2.5 A max.	4.16 A max.
Rated Power Output	18W max.	30W max.	60W max.	100W max.
Efficiency	80%	80%	82%	82%
Power Factor	>0.8		>0.9	
Operating Temperature	-20°C ~ +50°C			
Driving Length (30mm LED pitch)	<u><</u> 4.5m	<u><</u> 7.5m	<u><</u> 15m	<u><</u> 25m
IP Rating	IP67			
Dimension (L x W x H)	120 x 35 x 28 mm	148 x 45.6 x 35 mm	185 x 53 x 40 mm	185 x 53 x 40 mm
Packing		Pack	c of 1	

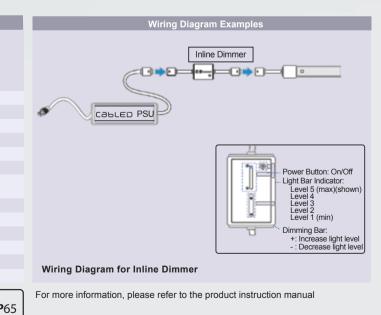


Dimming Solution for CableD

0	
Specifications	Home Application
Product Name	Inline Dimmer
Part No.	6401404105
Input Voltage	24V DC
Standby Current	15mA
Input Current	4A/25m
Input Power	100W/25m
Max. Connection Length with a Single PSU	25m
Operating Temperature	-20°C ~ 50°C
Storage Temperature	0°C ~ 80°C
Application	Indoor / Outdoor
IP Rating	IP65
Dimension (L x W x H)	78.5 x 50 x 23mm
Packing	Pack of 1
24V DC	

САРГЕД

Please check the part no. of respective plug with your local sales representative.



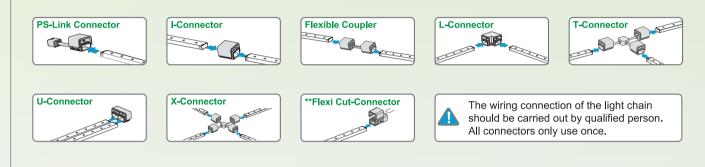
General Installation Procedure

Step 1 Cut CabLED[®] Strip

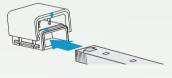
Cut CabLED[®] 8000 Strip Cut CabLED[®] 8000 High Brightness (HB) Strip Cut CabLED[®] strip to desired length along the cut mark Cut CabLED[®] strip to desired length along the cut mark indicated every 18cm / 7inches. indicated every 18cm / 7inches. ٦X HB HB

Step 2 Install Connectors

With the LED side facing up, slide one CabLED® strip into the opening in bottom half of one side of the connector until it reaches the end. Repeat with the other CabLED® strips in the other sides of the connector if required.



B Make sure all notches and arrow mark on CabLED[®] are fully inserted inside the connector.

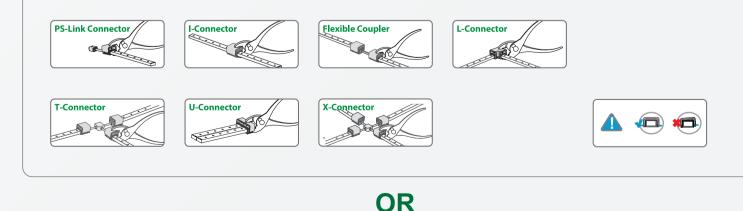




** Not compatible with In-line dimmer & it is for Cabled 8000 only.

Slide until all notches and arrow mark is fully covered.

C Using pliers, apply even pressure to the bottom and top halves of the connector to push connector together, securing CabLED® strip inside.



САРГЕД

⊐**□⇒**□⊨ᠽ ⎷⎧╞◯⊨ Step 3 Install End Cap Slide End Cap onto CabLED® strip that will have no connector. The End Cap protects the CabLED® strip.

	Model	
	Bridge Bracket M11	Holds CabLED [®] strip securely in place using
	Channel Bracket M10	It installs easily with one screw and is barely
	Channeling M13	CabLED [®] strip snaps securely into channelir
ð	Edge Bracket M12	Use for flush mount installations such as alo
	Garden Stake M14	Use for outdoor ground installations. Holds t to direct the angle of light from 0 to 135 degree M2.9 (#4) screw is recommended
Mark	Placement for Brackets	Install Bridge Bracket
A	II Channeling	
A	all Garden Stake	

Install 4 Way Power Splitter

Match the icons on each PS-Link Connector with the icons on the 4 Way Power Splitter. Repeat the same connection method with the power supply and the 4 Way Splitter.

•		
		\bigcirc



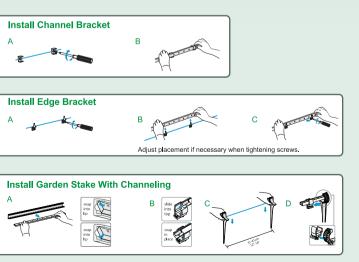
Slide until all notches and arrow mark is fully covered.

Description

g two screws.

- visible after CabLED[®] strip is snapped into place.
- ng that runs the length of the installation.
- ong a baseboard. Suitable for use in high traffic areas.

the CabLED® above ground so it will not be submerged in water and adjusts grees. May be used with Channeling.



AQUATIC 5000

Waterproof and weather resistant - Ultra bright up to 440 lumen per meter, warm or cool color temperature for outdoor or underwater lighting

PRODUCT FEATURES



IP68

fully encapsulated for underwater applications

Underwater



ed 🔀



Superior light high evenness of color and light spread

BENEFITS

- Supplied with custom designed aquatic holding clips
- Highly effective marine adhesive
- Custom-made terminals for multiple connections

IDEAL FOR

- Marina pontoon lighting
- Bath and shower lighting Waterway lighting
- Swimming pool lighting
- Fish pond lighting
- Aquarium lightingSpa lighting

• Fountain and waterdisplay lighting



Continuous run up to 25 meters (Aquatic 5000)

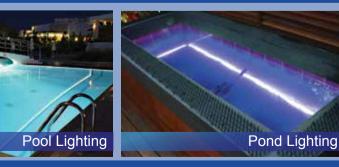




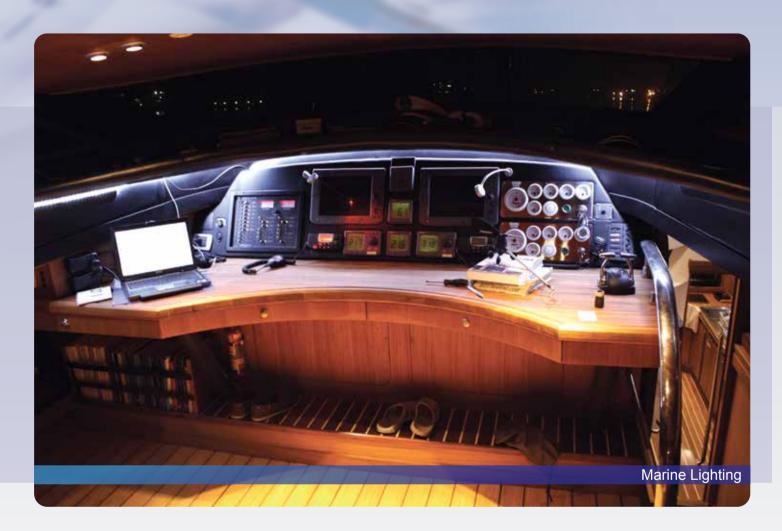








AQUATIC 5000







AQUATIC 5000 L



		30mm LED Pitch (Hig		
	-15mm-	30mm LED Pi	tch	
Specifications				_
		*	AQUATIC 5	000 LED Strips
Product Name	Aquatic 5000 High Br	ightness LED Strips		LED Pitch)
Model	C5K-A0-28M3B	C5K-A0-65M3B	C8K-A0-35L3B	C8K-A0-65L3B
Part No.	4036283012	4036653012	4036050105	4036060105
Color	Warm White	Daylight	Warm White	Daylight
Color Temperature (CCT)	2800 K	6500 K	3500 K	6500 K
Color Rendering Index (CRI)	80 Ra	72 Ra	80 Ra	72 Ra
nput Voltage	24V	DC	24	V DC
Rated Current	55 mA		154 mA	
umen Output per meter	400 lm	440 lm	150 lm	180 lm
Fotal Power per meter	6.7 W		3.7 W	
umen Efficacy	55 lm/W	60 lm/W	41 lm/W	49 lm/W
Radiation Angle	100)°	1	10°
Maximum Connection Length	10	m	2	5 m
_ife Span		35,00	0 hrs*	
Operating Temperature		-20°C ~	~ +50°C	
Storage Temperature		-25°C ~	~ +60°C	
Maximum Loading Force		10	kg	
Minimum Bending Radius		100	mm	
Flammability		Flame R	Retardant	
Application		Out	door	
IP Rating	IP68^			
Dimmable	Yes			
RoHS	Yes			
Packing				
аьсер		18 cm per	segment [#]	
Mechanical				
Dimension		12 mm (W) :	x 5.5 mm (H)	
Segment Length	18 cm			
Number of LEDs	6 per segment			
_ED Pitch	30 mm			
Weight		100	g/m	



саьсер

Product Dimensions & Specifications