



# TLX 15



MARINE LED SOLUTIONS

# TLX15 SHORTCUTTING



**MIN. CUTTING LENGTH**  
16.67mm  
1 LED



Flame Resistant



UV Resistant



Solvents Resistant



Saltwater Resistant



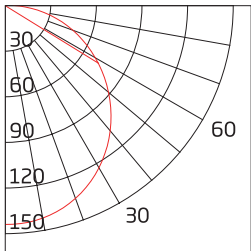
IP67 Protection



Dimmable



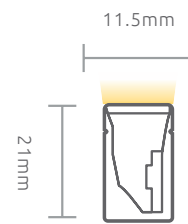
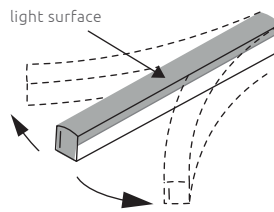
IK08 Protection



UNIT: cd  
— C90/270

AVERAGE BEAM ANGLE  
(50%): 113.2°

Horizontal bending, Curve



Bending-extreme  
4526 times



Tensile-instantaneous  
>60kg.f



Twist-extreme  
3542 times

**\*Only in  
Horizontal  
Bending**

Warning: Extreme Destructive Tests in laboratory only, and it's forbidden to operate in practice.



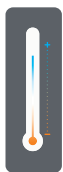
Min. Bending Diameter  
120mm



Min. Cutting Length  
16.67mm, 1 LED

## NOTE:

- The illuminated light length shall be an integral multiple of min. cutting length.
- The waterproof reliability of the lighting fixture depends on the IP rating of connector, and please make sure connector is properly assembled before installation. The highest IP rating we can achieve is IP67.



Ambient Working Temperature  
≤6W/m -40 ~ 65°C /-40~149°F  
9W/m -40 ~ 60°C /-40~140°F  
12W/m -40 ~ 55°C /-40~131°F



Ambient Installation Temperature  
-40 ~ 50°C /-40~122°F



Storage Temperature  
-40 ~ 60°C /-40~140°F



Max. Mounting Surface Temperature  
85°C /185°F



Constant Voltage  
DC24V

\*TLX15 can be customized to your specifications with custom lengths, color temperature and CRI rating.



## ELECTRICAL PARAMETERS



Voltage (V)	DC24V
Current (mA/m)	500
Power (W/m)	12
Circuit Type	CV
LED Type	2835
LEDs Qty/m	72
LEDs Qty/unit	6
Unit/m	12
Min. Cutting Length (mm)	16.67

## OPTICAL PARAMETERS

*\*CRI 95 available on request*

	FINISHED PRODUCT						LED	
	CCT	CCT Tolerance	Color Tolerance	CRI	Power	Lumen/m	Color Tolerance	CRI
HORIZONTAL BENDING	● 2700K	2725±85K	<5SDCM	90	12W/m	280lm	<2.3SDCM	91~97
HORIZONTAL BENDING	● 3000K	3045±105K	<5SDCM	90	12W/m	320lm	<2.3SDCM	91~97
HORIZONTAL BENDING	● 4000K	3985±150K	<5SDCM	90	12W/m	320lm	<2.3SDCM	91~97

## MAX. RUNNING LENGTHS Input: DC24V

CONNECTOR TYPE	SINGLE-END FEED	DOUBLE-END FEED
Swivel Connector (IP20)	6m	12m
Snap Connector (IP67)	18m	36m
Siicone Injection-moulded Connector (IP68)	18m	36m



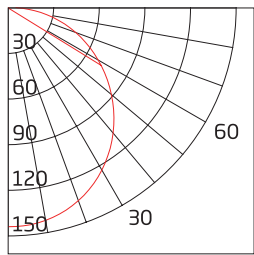
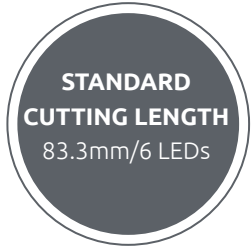


# TLX15 SILICONE



**\*Also available in PVC**

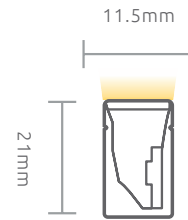
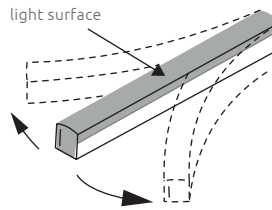
See pg 40-41 for full product list



UNIT: cd  
— C90/270

AVERAGE BEAM ANGLE  
(50%): 113.2°

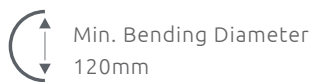
Horizontal bending, Curve



**\*Only in  
Horizontal  
Bending**




**Warning: Extreme Destructive Tests in laboratory only, and it's forbidden to operate in practice.**



**NOTE:**

1. The illuminated light length shall be an integral multiple of min. cutting length.
2. The waterproof reliability of the lighting fixture depends on the IP rating of connector, and please make sure connector is properly assembled before installation. The highest IP rating we can achieve is IP67.



Ambient Working Temperature  
 ≤6W/m -40 ~ 65°C /-40~149°F  
 9W/m -40 ~ 60°C /-40~140°F  
 12W/m -40 ~ 55°C /-40~131°F



Ambient Installation Temperature  
 -40 ~ 50°C /-40~122°F



Storage Temperature  
 -40 ~ 60°C /-40~140°F



Max. Mounting Surface Temperature  
 85°C /185°F



Constant Voltage  
 DC24V

**\*TLX15 can be customized to your specifications with custom lengths, color temperature and CRI rating.**



## ELECTRICAL PARAMETERS

Voltage (V)	DC24V
Current (mA/m)	500.0
Power (W/m)	12 <i>6W &amp; 9W available on request</i>
Circuit Type	CC
LED Type	2835
LEDs Qty/m	72
LEDs Qty/unit	6
Unit/m	12
Min. Cutting Length (mm)	83.3

## OPTICAL PARAMETERS

*\*CRI 95 available on request*

	FINISHED PRODUCT						LED	
	CCT	CCT Tolerance	Color Tolerance	CRI	Power	Lumen/m	Color Tolerance	CRI
HORIZONTAL BENDING	● 2200K	2238±66K	<5SDCM	80	12W/m	320lm	<2.3SDCM	82~87
HORIZONTAL BENDING	● 2700K	2725±85K	<5SDCM	90	12W/m	280lm	<2.3SDCM	91~97
HORIZONTAL BENDING	● 3000K	3045±105K	<5SDCM	90	12W/m	320lm	<2.3SDCM	91~97
HORIZONTAL BENDING	● 3500K	3465±245K	<5SDCM	90	12W/m	320lm	<2.3SDCM	91~97
HORIZONTAL BENDING	● 4000K	3985±150K	<5SDCM	90	12W/m	320lm	<2.3SDCM	91~97

## MAX. RUNNING LENGTHS Input: DC24V

CONNECTOR TYPE	SINGLE-END FEED	DOUBLE-END FEED
Swivel Connector (IP20)	5m	10m
Snap Connector (IP67)	15m	30m
Siicone Injection-moulded Connector (IP68)	15m	30m



# TLX15 PRODUCT LIST

## TLX15 SILICONE – SHORTCUTTING



TLX Code	CCT	CCT tolerance	Bend	CRI	Lumen/m	Power	Leds/m	Voltage	Cutting mm
50.02.1470	2700K	2725±85K	HB	>90	280lm	12W/m	72	DC24V	16.67mm
50.02.1471	3000K	3045±105K	HB	>90	320lm	12W/m	72	DC24V	16.67mm

## TLX15 SILICONE – STANDARD CUTTING

TLX Code	CCT	CCT tolerance	Bend	CRI	Lumen/m	Power	Leds/m	Voltage	Cutting mm
50.02.1450	2200K	2238±66K	HB	>80	320lm	12W/m	72	DC24V	83.3mm
50.02.1452	2700K	2725±85K	HB	>90	280lm	12W/m	72	DC24V	83.3mm
50.02.1453	3000K	3045±105K	HB	>90	320lm	12W/m	72	DC24V	83.3mm
50.02.1465	CTA 2500K -5700K	2538±66K – 5669±305K	HB	>90	140lm – 170lm	12W/m	144	DC24V	83.3mm
50.02.1460	RGB		HB	-	>195lm	12W/m	60	DC24V	100mm
50.02.1461	RGBW		HB	>90	>315lm	15W/m	60	DC24V	100mm
50.02.1464	RED + 2700K		HB	>90	>200lm	12W/m	144	DC24V	83.3mm

## TLX15 PVC – STANDARD CUTTING

TLX Code	CCT	CCT tolerance	Bend	CRI	Lumen/m	Power	Leds/m	Voltage	Cutting mm
50.02.0507	2200K	2238±102K	HB	>80	320lm	12W/m	72	DC24V	83.3mm
50.02.0509	2700K	2725±145K	HB	>90	240lm	12W/m	72	DC24V	83.3mm
50.02.0508	3000K	3045±175K	HB	>90	295lm	12W/m	72	DC24V	83.3mm
50.02.0526	CTA 2500K -5700K	2538±66K – 5669±305K	HB	>90	220lm	12W/m	144	DC24V	83.3mm
50.02.0525	RGB	-	HB	-	>110lm	12W/m	60	DC24V	100mm
50.02.0527	RGBW	-	HB	>90	>255lm	15W/m	60	DC24V	100mm
50.02.0528	RED + 2700K	2725±145K	HB	>90	>200lm	12W/m	144	DC24V	83.3mm

\*TLX15 can be customized to your specifications with custom lengths, color temperature and CRI rating.

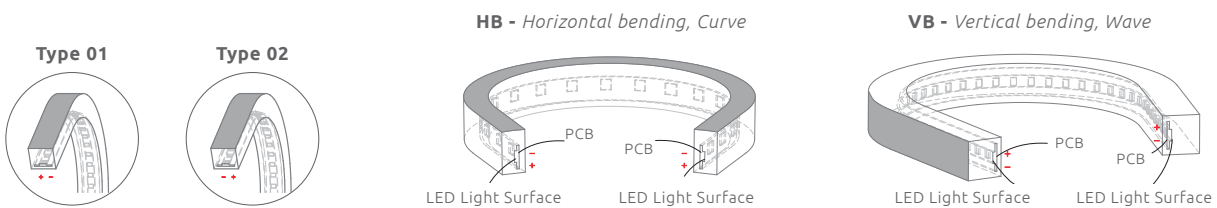


# TLX15

## CONNECTORS & ENDCAPS

### TYPE 01 OR TYPE 02

There are 01 and 02 marks on the Flexlines and Field Assembled Connectors. Since the PCB is not centralized and pins are separated for positive and negative, the 01-pin connector can only fit into 01 end marks on the Flexline. Likewise for the 02-pin connector.



### SWIVEL CONNECTOR (IP20) — D.I.Y

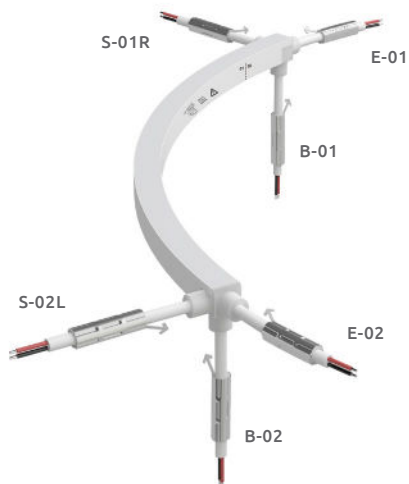
	<p><b>50.16.0570</b> HB SWIVEL connector, Top End, type 1, 30cm cable</p>	
	<p><b>50.16.0571</b> HB SWIVEL connector, Top End, type 2, 30cm cable</p>	
	<p><b>50.16.0574</b> SWIVEL connector, Endcap, IP20</p>	

### SNAP CONNECTOR (IP67) — D.I.Y

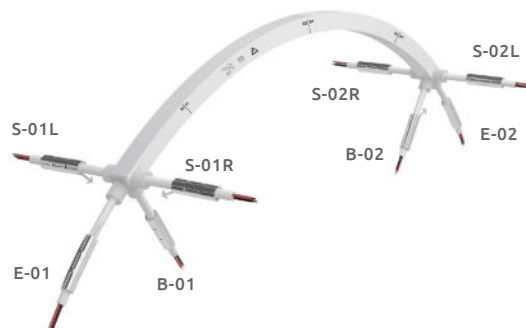
	<p><b>50.16.0520</b> HB SNAP connector, Top End, Type 1, 30cm cable</p>	
	<p><b>50.16.0521</b> HB SNAP connector, Top End, Type 2, 30cm cable</p>	
	<p><b>50.16.0530</b> HB SNAP connector, End Cap, Type 1</p>	
	<p><b>50.16.0531</b> HB SNAP connector, End Cap, Type 2</p>	



### HORIZONTAL BENDING



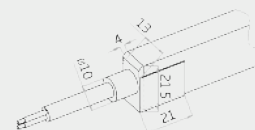
### VERTICAL BENDING



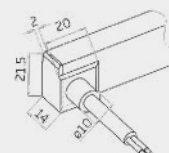
## INJECTION MOULDED CONNECTOR (SILICONE IP68 / PVC IP67)



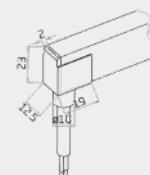
**Type** Front Connector – END  
**Code** E01 | E02



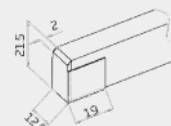
**Type** Front Connector – SIDE  
**Code** S01 | S02



**Type** Front Connector – BOTTOM  
**Code** B01 | B02



**Type** End Cap  
**Code** EC





# TLX15

## MOUNTING PROFILES

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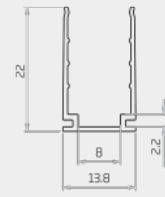


**50.16.0434**

Aluminium Profile – 1000mm

**50.16.0443**

Aluminium Profile – 2000mm



Tolerance:  $\pm 0.2\text{mm}$



**50.16.1010**

Flange Aluminium Profile – 1000mm

**50.16.1011**

Flange Aluminium Profile – 2000mm



Tolerance:  $\pm 0.2\text{mm}$

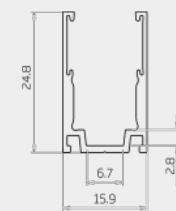


**50.16.0854**

Serrated Aluminium Profile – 1000mm

**50.16.0855**

Serrated Aluminium Profile – 2000mm



Tolerance:  $\pm 0.2\text{mm}$

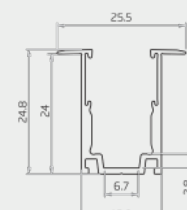


**50.16.0852**

Flange Serrated Aluminium Profile – 1000mm

**50.16.0853**

Flange Serrated Aluminium Profile – 2000mm



Tolerance:  $\pm 0.2\text{mm}$



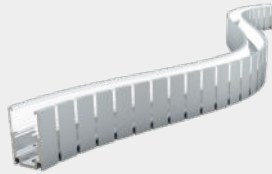
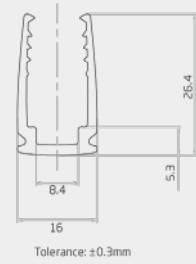


**50.16.0439**

Thickened Plastic Profile – 1000mm

**50.16.0442**

Thickened Plastic Profile – 2000mm

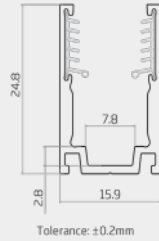


**50.16.0850**

Bendable Serrated Aluminium Profile – 500mm

**50.16.0851**

Bendable Serrated Aluminium Profile – 1000mm



**50.16.0575**

Stainless Steel Curved Profile – 90,5mm

**50.16.0576**

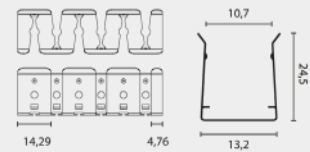
Stainless Steel Curved Profile – 300mm

**50.16.0577**

Stainless Steel Curved Profile – 490,5mm

**50.16.0578**

Stainless Steel Curved Profile – 890,5mm





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