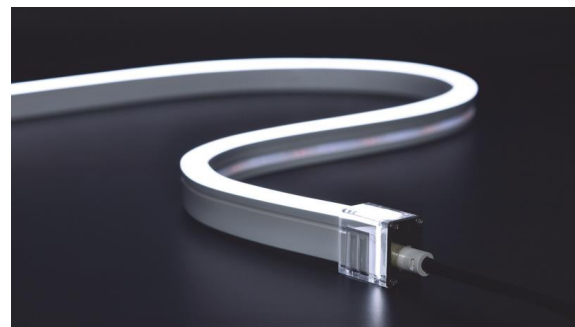


LED Neon Lightbar IP67 Series S1 Datasheet



Product description :

- 24 V constant voltage strip (SELV)
- Dual-color silicone extrusion process with cutting mark clearly visible
- High UV & salt spray corrosion resistance



Features and benefits :

- Small color tolerance, Ra > 90
- 3-years Warranty



Typical Applications :

- Outdoor or indoor Contour/Border Lighting
- Architectural outline /decorative lighting





Table of Contents

General Information.....	3
Technical data.....	4
Product Dimensions.....	5
Electric-Optical Characteristics	6
Connector Series	9
Mounting Buckle	19
Bending Diagram	20
Mounting Way	20
End Cap'S Fast Installation Process	21
Product Packaging Information.....	23
Precaution for Use.....	24
Environmental Compliance.....	24
Application Notes.....	24
Revision History	25
About Edison Opto	25



General Information

Ordering Code Format

6 LBU5 XX J E0 X XXX XX
 X1 X2 X3 X4 X5 X6 X7 X8

X1 Item		X2 Series		X3 Emitting Color		X4 Driver		X5 Length	
6	Module	LBU5	FPC	24	2400K	J	CV 24V	E0	5M
				27	2700K				
				30	3000K				
				40	4000K				
				60	6000K				
				M1	RGB				
				RX	Red				
				TX	Green				
				BX	Blue				
				YX	Yellow				
				PX	Pink				

X6 Emitter		X7 Number of LEDs(M)		X8 Serial No.	
M	5050	096	96pcs	xx	--
S	2835	120	120pcs		

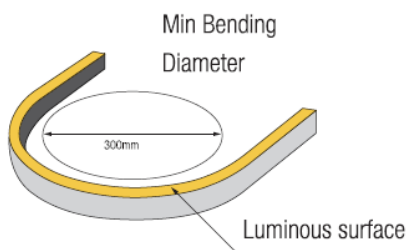
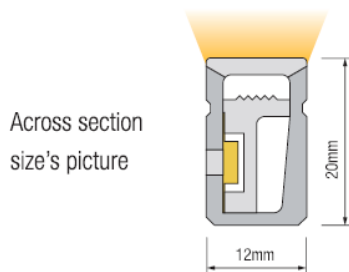
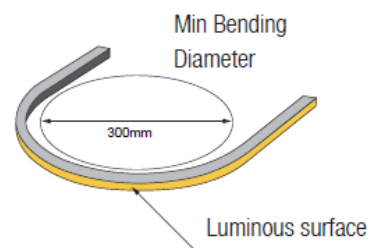
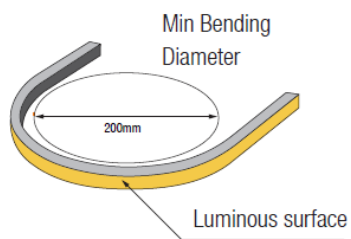
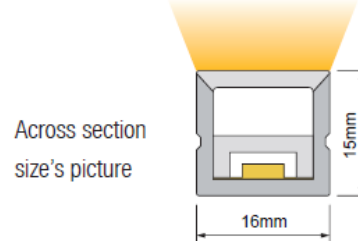
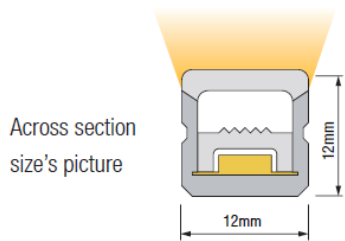


Technical data

Parameter	Value	Units
Ambient temperature range	-20~ +45	°C
Tp rated	65	°C
Tc	75	°C
DC supply voltage	24	V
Type of protection	IP67	
Color Temperature	2400-6000	K
Number of connection	5	M
Risk group(EN62778)	1	
Classification acc. to	IEC62031	
	IEC62778	
	IEC62717	
	IEC61000-4-2	

Product Dimensions

Ordering Code Format





Electric-Optical Characteristics

1212

Order code	CCT (K)	Voltage (CV)	Luminous flux (lm/M)	Efficacy (lm/W)	Power (W/M)	Ra	Unit cut (mm)
6LBU524JE0S12006	2400	24	560	56	10	>90	50
6LBU527JE0S12006	2700	24	640	64	10	>90	50
6LBU530JE0S12006	3000	24	640	64	10	>90	50
6LBU540JE0S12006	4000	24	670	67	10	>90	50
6LBU560JE0S12006	6000	24	660	66	10	>90	50
6LBU5RXJE0S12006	Red : 620-630nm	24	280	28	10	-	50
6LBU5TXJE0S12006	Green : 515-525nm	24	700	70	10	-	50
6LBU5BXJE0S12006	Blue : 460-470nm	24	130	13	10	-	50
6LBU5YXJE0S12006	Amber	24	50	5	10	-	50
6LBU5PXJE0S12006	Pink	24	280	28	10	-	50

Notes:

1. The Maximum and minimum Power /lumen flux /Efficacy are based on $\pm 10\%$ of the typical rate.
2. The Maximum and minimum CCT are based on $\pm 10\%$ of the typical rate.



1615

Order code	CCT (K)	Voltage (CV)	Luminous flux (lm/M)	Efficacy (lm/W)	Power (W/M)	Ra	Unit cut (mm)
6LBU524JE0S12007	2400	24	660	44	15	>90	50
6LBU527JE0S12007	2700	24	770	51	15	>90	50
6LBU530JE0S12007	3000	24	770	51	15	>90	50
6LBU540JE0S12007	4000	24	800	53	15	>90	50
6LBU560JE0S12007	6000	24	780	52	15	>90	50
6LBU5RXJE0S12007	Red : 620-630nm	24	320	21	15	-	50
6LBU5TXJE0S12007	Green : 515-525nm	24	700	47	15	-	50
6LBU5BXJE0S12007	Blue : 460-470nm	24	150	10	15	-	50
6LBU5YXJE0S12007	Amber	24	60	4	15	-	50
6LBU5PXJE0S12007	Pink	24	300	20	15	-	50
6LBU5M6JE0G12004	2700	24	264	35.2	7.5	>90	50
	6000		387	51.6	7.5	>90	
6LBU5M1JE0M09607	Red: 620-630nm	24	80	16	5.0	-	62.5
	Green: 515-525nm		194	39	5.0	-	
	Blue: 460-47nm		41	8	5.0	-	
6LBU5MWJE0M09607	2400	24	191	50.0	3.8	>80	62.5
	Red : 620-630nm		55	14.5	3.8	-	
	Green : 515-525nm		156	41.0	3.8	-	
	Blue : 460-470nm		42	11.0	3.8	-	
6LBU5MWJE0M09608	2700	24	207	54.5	3.8	>80	62.5
	Red : 620-630nm		55	14.5	3.8	-	
	Green : 515-525nm		156	41.0	3.8	-	
	Blue : 460-470nm		42	11.0	3.8	-	
6LBU5MNJE0M09607	3800	24	209	55.0	3.8	>80	62.5
	Red : 620-630nm		55	14.5	3.8	-	
	Green : 515-525nm		156	41.0	3.8	-	
	Blue : 460-470nm		42	11.0	3.8	-	
6LBU5MCJE0M09604	5300	24	209	55.0	3.8	>80	62.5
	Red : 620-630nm		55	14.5	3.8	-	
	Green : 515-525nm		156	41.0	3.8	-	
	Blue : 460-47nm		42	11.0	3.8	-	




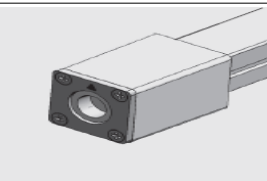


1220

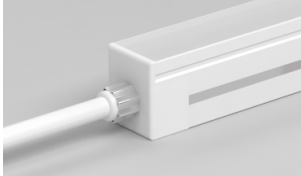


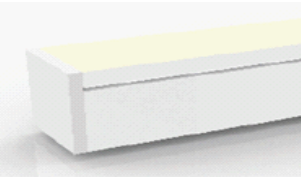
Order code	CCT (K)	Voltage (CV)	Luminous flux (lm/M)	Efficacy (lm/W)	Power (W/M)	Ra	Unit cut (mm)
6LBU524JE0S12008	2400	24	410	27	15	>90	50
6LBU527JE0S12008	2700	24	430	29	15	>90	50
6LBU530JE0S12008	3000	24	430	29	15	>90	50
6LBU540JE0S12008	4000	24	470	31	15	>90	50
6LBU560JE0S12008	6000	24	460	31	15	>90	50
6LBU5RXJE0S12008	Red : 620-630nm	24	200	13	15	-	50
6LBU5TXJE0S12008	Green : 515-525nm	24	470	31	15	-	50
6LBU5BXJE0S12008	Blue : 460-470nm	24	90	6	15	-	50
6LBU5YXJE0S12008	Amber	24	40	2.6	15	-	50
6LBU5PXJE0S12008	Pink	24	200	13	15	-	50
6LBU5M6JE0G12003	2700	24	229	30.5	7.5	>90	50
	6000		244	32.5	7.5	>90	
6LBU5M1JE0M09608	Red : 620-630nm	24	50	10	5.0	-	62.5
	Green : 515-525nm		97	19	5.0	-	
	Blue : 460-470nm		20	4	5.0	-	
6LBU5MWJE0M09603	2400	24	114	30.0	3.8	>80	62.5
	Red : 620-630nm		32	8.4	3.8	-	
	Green : 515-525nm		102	26.8	3.8	-	
	Blue : 460-470nm		28	7.4	3.8	-	
6LBU5MWJE0M09606	2700	24	124	32.6	3.8	>80	62.5
	Red : 620-630nm		32	8.4	3.8	-	
	Green : 515-525nm		102	26.8	3.8	-	
	Blue : 460-470nm		28	7.4	3.8	-	
6LBU5MNJE0M09604	3800	24	126	33.2	3.8	>80	62.5
	Red : 620-630nm		32	8.4	3.8	-	
	Green : 515-525nm		102	26.8	3.8	-	
	Blue : 460-470nm		28	7.4	3.8	-	
6LBU5MCJE0M09603	5300	24	126	33.2	3.8	>80	62.5
	Red : 620-630nm		32	8.4	3.8	-	
	Green : 515-525nm		102	26.8	3.8	-	
	Blue : 460-470nm		28	7.4	3.8	-	

Connector Series






1212 (Snap connector)

Part No.	Picture	Describe
13CNP3000486		Front Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000487		Side Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000488		Bottom Cable Entry (Single color) 300mm UL2464 2P 20AWG
13MAFT000478		End



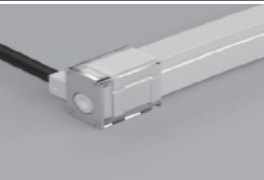
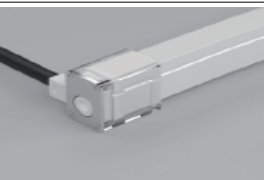


1212 (Injection connector)

Prat No.	Picture	Describe
13CNP3000630		Front Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000631		Side Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000632		Bottom Cable Entry (Single color) 300mm UL2464 2P 20AWG
13MAFT000552		End







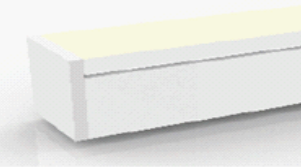
1615 (Snap connector)

Prat No.	Picture	Describe
13CNP3000492		Front Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000495		Front Cable Entry (RGB) 300mm UL2464 4P 20AWG
13CNP3000493		Side Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000496		Side Cable Entry (RGB) 300mm UL2464 4P 20AWG
13CNP3000494		Bottom Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000497		Bottom Cable Entry (RGB) 300mm UL2464 4P 20AWG
13MAFT000479		End







1615 (Snap connector)

Part No.	Picture	Describe
13CNP3000600		Front Cable Entry (Dual color) 300mm UL2464 3P 20AWG
13CNP3000603		Front Cable Entry (RGBW) 300mm UL2464 5P 20AWG
13CNP3000601		Side Cable Entry (Dual color) 300mm UL2464 3P 20AWG
13CNP3000604		Side Cable Entry (RGBW) 300mm UL2464 5P 20AWG
13CNP3000602		Bottom Cable Entry (Dual color) 300mm UL2464 3P 20AWG
13CNP3000605		Bottom Cable Entry (RGBW) 300mm UL2464 5P 20AWG


1615 (Injection connector)

Prat No.	Picture	Describe
13CNP3000640		Front Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000643		Front Cable Entry (RGB) 300mm UL2464 4P 20AWG
13CNP3000641		Side Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000644		Side Cable Entry (RGB) 300mm UL2464 4P 20AWG
13CNP3000642		Bottom Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000645		Bottom Cable Entry (RGB) 300mm UL2464 4P 20AWG
13MAFT000553		End







1615 (Injection connector)

Prat No.	Picture	Describe
13CNP3000620		Front Cable Entry (Dual color) 300mm UL2464 3P 20AWG
13CNP3000623		Front Cable Entry (RGBW) 300mm UL2464 5P 20AWG
13CNP3000621		Side Cable Entry (Dual color) 300mm UL2464 3P 20AWG
13CNP3000624		Side Cable Entry (RGBW) 300mm UL2464 5P 20AWG
13CNP3000622		Bottom Cable Entry (Dual color) 300mm UL2464 3P 20AWG
13CNP3000625		Bottom Cable Entry (RGBW) 300mm UL2464 5P 20AWG

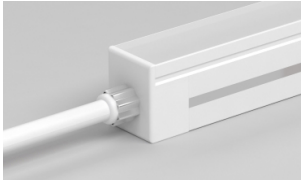
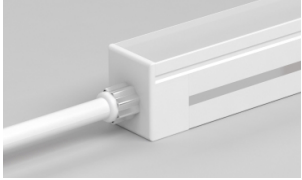




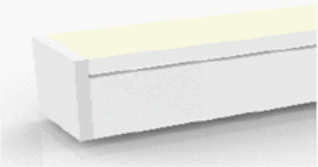
1220 (Snap connector)

Part No.	Picture	Describe
13CNP3000498		Front Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000501		Front Cable Entry (RGB) 300mm UL2464 4P 20AWG
13CNP3000499		Side Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000502		Side Cable Entry (RGB) 300mm UL2464 4P 20AWG
13CNP3000500		Bottom Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000503		Bottom Cable Entry (RGB) 300mm UL2464 4P 20AWG
13MAFT000480		End

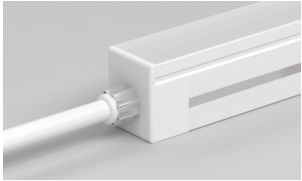
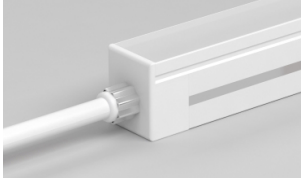




1220 (Snap connector)

Part No.	Picture	Describe
13CNP3000590		Front Cable Entry (Dual color) 300mm UL2464 3P 20AWG
13CNP3000593		Front Cable Entry (RGBW) 300mm UL2464 5P 20AWG
13CNP3000591		Side Cable Entry (Dual color) 300mm UL2464 3P 20AWG
13CNP3000594		Side Cable Entry (RGBW) 300mm UL2464 5P 20AWG
13CNP3000592		Bottom Cable Entry (Dual color) 300mm UL2464 3P 20AWG
13CNP3000595		Bottom Cable Entry (RGBW) 300mm UL2464 5P 20AWG

1220 (Injection connector)



Prat No.	Picture	Describe
13CNP3000650		Front Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000653		Front Cable Entry (RGB) 300mm UL2464 4P 20AWG
13CNP3000651		Side Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000654		Side Cable Entry (RGB) 300mm UL2464 4P 20AWG
13CNP3000652		Bottom Cable Entry (Single color) 300mm UL2464 2P 20AWG
13CNP3000655		Bottom Cable Entry (RGB) 300mm UL2464 4P 20AWG
13CNP3000554		End

1220 (Injection connector)



Prat No.	Picture	Describe
13CNP3000610		Front Cable Entry (Dual color) 300mm UL2464 3P 20AWG
13CNP3000613		Front Cable Entry (RGBW) 300mm UL2464 5P 20AWG
13CNP3000611		Side Cable Entry (Dual color) 300mm UL2464 3P 20AWG
13CNP3000614		Side Cable Entry (RGBW) 300mm UL2464 5P 20AWG
13CNP3000612		Bottom Cable Entry (Dual color) 300mm UL2464 3P 20AWG
13CNP3000615		Bottom Cable Entry (RGBW) 300mm UL2464 5P 20AWG

Mounting Buckle



1212

Prat No.	Picture	Describe
13HSLBR10501		Aluminium Mounting clips 17.2x14x20mm(LXWXH)
13HSLBR10502		Aluminium Profile 17.2x14x1000mm(LXWXH)

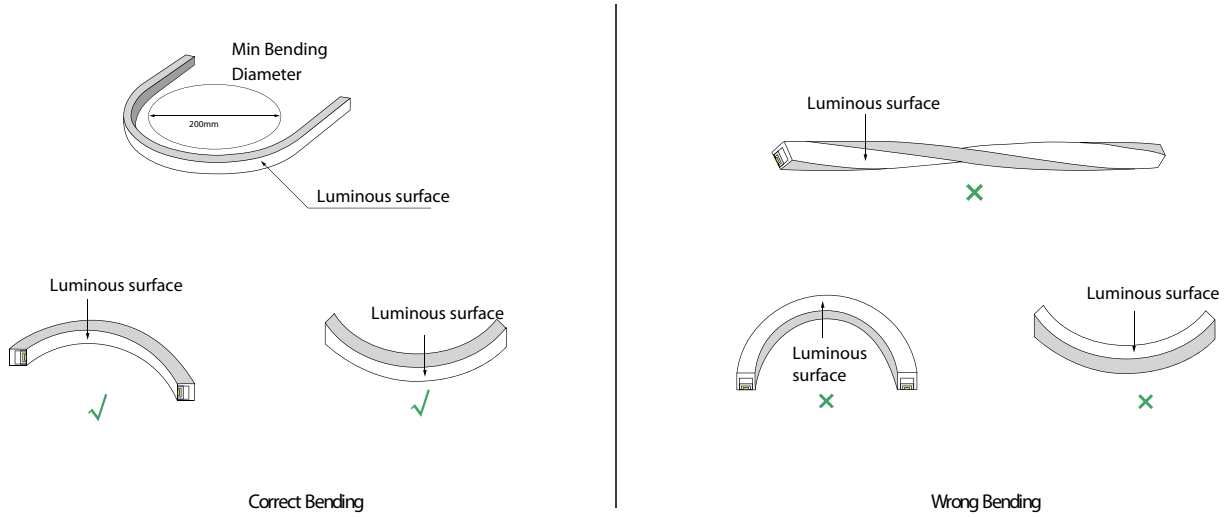
1615

Prat No.	Picture	Describe
13HSLBR10503		Aluminium Mounting clips 20.5x17.6x20mm(LXWXH)
13HSLBR10504		Aluminium Profile 20.5x17.6x1000mm(LXWXH)

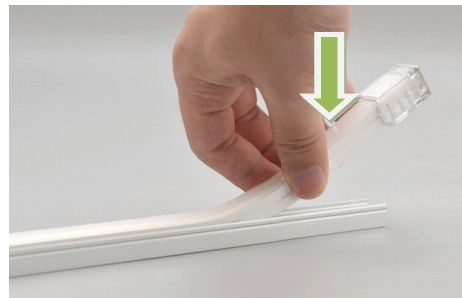
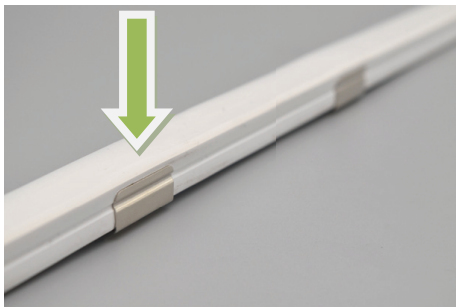
1220

Prat No.	Picture	Describe
13HSLBR10505		Aluminium Mounting clips 17.5x22.9x20mm(LXWXH)
13HSLBR10506		Aluminium Profile 17.5x22.9x1000mm(LXWXH)

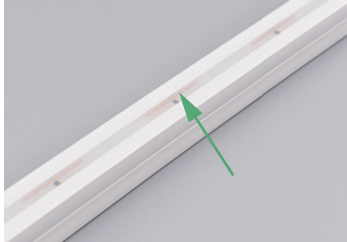
Bending Diagram



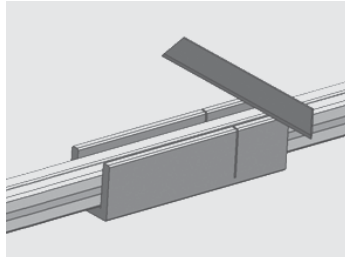
Mounting Way



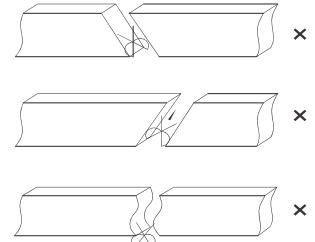
End Cap'S Fast Installation Process



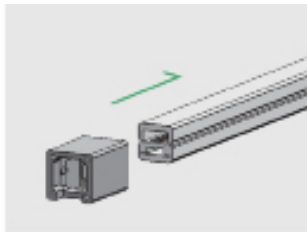
Remark: The bottom of the led strip has transparent window, the black marker is the cutting position



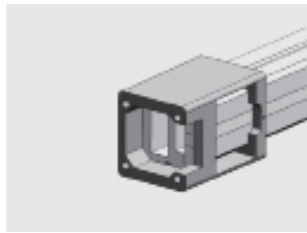
Use a cutting jig, vertical cutting precisely in the exact cutting position of led strip.



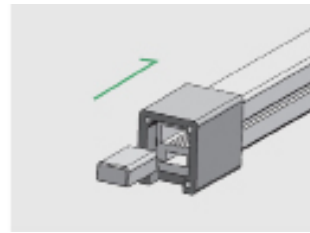
Please don't be feel free to cut and cut into an oblique angle or cambered section



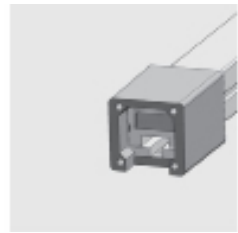
Insert the transparent PC shell into the led strip, insert in to the limit.



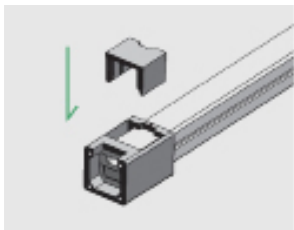
Its window is at the bottom of the led strips for all the front cable entry, side cable entry and bottom cable entry



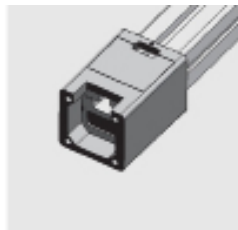
Stuff the plug into the holes corresponding to the led strip.



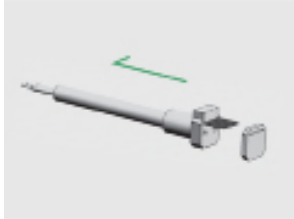
Effect diagram of the finished assembly.



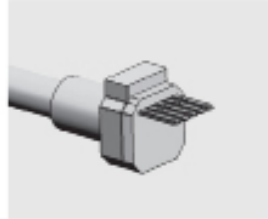
Insert the stopper into the PC shell



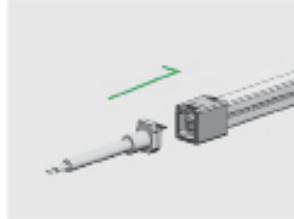
Effect diagram of the stopper assembly completed



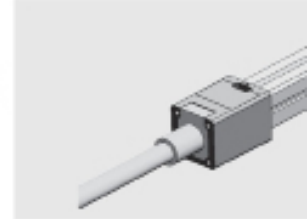
Put the waterproof washer into the plug.



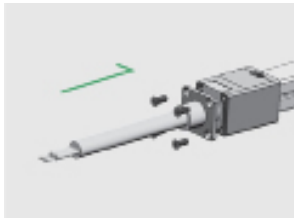
Effect diagram of the waterproof washer assembly completed.



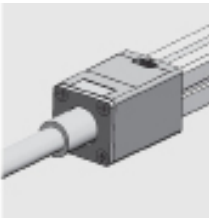
Insert the plug with the waterproof washer into the led strip, and the Pin insert between FPC and transparent PET.



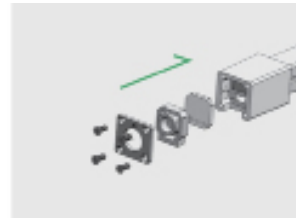
Effect diagram of the plug finished assembly assembly completed.



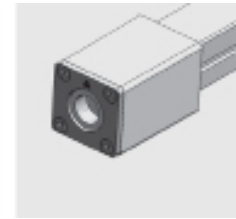
Fix the hardware on the PC shell with 4pcs screws, close to the PC shell, completed assembly.



Effect diagram of the metal plate assembly completed.



End cap's installation diagram.

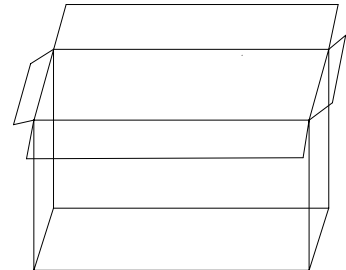


Effect diagram of the metal plate assembly completed.



Product Packaging Information

Type	length per carton (M)	Reel Qty/Carton	Carton size (mm)	GW.±5% (kg)
1212	5	8	410x410x260	7.8
1615	5	8	410x410x260	13.3
1220	5	8	410x410x260	12.2



EX:

艾笛森光電股份有限公司 EDISON OPTO CORPORATION	
Part No. : <u>6LBxxxxxxxxxxxx</u>	Inspected by:
Color : <u>Cool White(34W3FVB2)</u>	<input type="text"/>
Quantity : <u>1 Reel(5M)</u>	
Lot No. : <u>D1201-12110022</u>	
 A410000005	 Directive Compliance
Tel +86-2-82276996 Fax +86-2-8227-6997 4F No.800 Chung-Cheng , Chung-Ho City Taipei, Taiwan	

Label information

Part NO. : Order code

Color : Color(Emitter BIN color)

Quantity : The number of packing

Lot NO. : Date code



Precaution for Use

1. DO NOT use the products with materials has Sulfur.
2. DO NOT assemble in humid environment or the conditions of containing oxidizing gas such as C1, H2S, NH3, SO2, NOX, etc.
3. DO NOT add or change wires while the circuit of Module is active. Long time exposure to sunlight or UV should be avoided.
4. DO NOT press the product; even a slight pressure may damage the product. The environments such as high temperatures, high humidity or direct expose to sunlight should be avoided since the product is sensitive to these conditions.
5. Installation of LED modules (with power supplies) needs to be made with regard to all applicable and safety standards. Only qualified personnel should be allowed to perform installations.
6. Assembly must not damage or destroy conducting paths on the circuit board.
7. Please ensure that the power supply is of adequate power to operate the total load.
8. The maximum run length from any power feed should be limited to 5000 mm

Environmental Compliance

PLCC lightbar FPC series are compliant to the Restriction of Hazardous Substances Directive or RoHS. The restricted materials including lead, mercury cadmium hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ether (PBDE) are not used in PLCC lightbar FPC series to provide an environmentally friendly product to the customers.

Application Notes

PLCC Lightbar series are available in red, yellow, green, blue, white, neutral white and warm white for application such as under-cabinet lighting, cove lighting and wall washing. Moreover, additional fine-tuned high color rendering index (CRI) version of white, neutral white and warm white all make PLCC Lightbar the ideal lighting choice for vividly building or decoration products, presenting the products outline.



Revision History

Versions	Description	Release Date
1	Establish order code information	2021/07/30
2	Update the order code(1212 injection connector)	2022/01/20
3	Update order code information	2022/05/09

About Edison Opto

Edison Opto is a leading manufacturer of high power LED and a solution provider experienced in LDMS. LDMS is an integrated program derived from the four essential technologies in LED lighting applications- Thermal Management, Electrical Scheme, Mechanical Refinement, Optical Optimization, to provide customer with various LED components and modules. More Information about the company and our products can be found at www.edison-opto.com

Copyright©2022 Edison Opto. All rights reserved. No part of publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photo copy, recording or any other information storage and retrieval system, without prior permission in writing from the publisher. The information in this publication are subject to change without notice.

www.edison-opto.com

For general assistance please contact:
service@edison-opto.com.tw

For technical assistance please contact:
LED.Detective@edison-opto.com.tw