



EDGE

LED Strip





The side-emitting LED Strip is a unique light source designed especially for edge-lighting, using LEDs from world-leading LED manufacturer.

The LED strip or 'segment' contains 30 side-emitting LEDs and is perfect for special lighting applications where no other light sources can fit. Most standard LED strips emit light from the top surface of the printed circuit board (PCB), on which the LEDs are mounted, the side-emitting LED strip emits light from the edge of the PCB. Most standard LED strips are often used for lighting panels from the back, while the side-emitting LED strip can be used for edge-lighting panels, and in applications where space for the light source is limited.

POWER

15W

15.6W / metre

LUMINOUS FLUX



LC · 470 lm / metre

COLOUR TEMPERATURE

5000K



SIDE ILLUMINATION

Unlike standard LED strips where light is emitted from the top surface of the printed circuit board (PCB), Coolon's Edge LED strip emits light from the edge of the PCB.

VERSATILE LENGTH OPTIONS

Versatile length options allows the user to achieve much more accurate and adaptable lengths.

The Edge is able to achieve any desired length within a 60mm increment.



LONG USEFUL OPERATING LIFE

Currently available specification from world's most reputable LED manufacturers states 50,000 hours of continuous operation at the rated current within the operating temperature range to 70% residual light output.



VARIOUS CCT & COLOUR BINNING CONSISTENCY

Product is offered in various Colour Temperatures using tighter bins.



3 YEARS FULL /SOLID WARRANTY

Coolon Luminaires are covered by a solid comprehensive manufacturer's warranty that covers a range of possible defects and performance parameters throughout the duration of the warranty period.



PROUDLY MADE IN AUSTRALIA

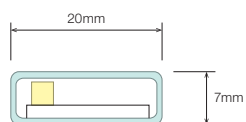
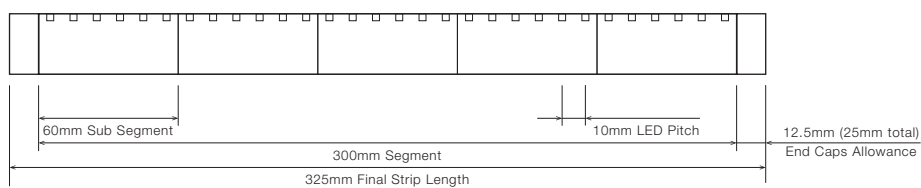
Our products are designed and manufactured in Australia. Engineered to perfection, using only the highest quality components and highly skilled labour, each luminaire is assembled and thoroughly tested to ensure that it exceeds the highest standards.

■ TECHNICAL SPECIFICATIONS

Product Code	STR-EDGE
Description	Edge Side Emitting LED Strip
Segment Length (S)	300mm
Sub-Segment Length (A)	60mm
Number of Sub-Segments	5
Segment Width	17.50mm
LED Pitch	10.00mm
LEDs Per Segment	30
LEDs Per Sub Segment	6
Operating Voltage	24VDC
Typical Power Consumption per Segment	4.7W per 300mm Segment
Typical Power Consumption per Metre	15.6W per metre
Typical Current	195mA per 300mm Segment
Colour Rendering Index (CRI)	75+
Dimmable	With DALI / PWM
Effective Beam Angle	115°
External Heatsink Required	No
Ambient Operating Temp	Ta -40°C to 50°C
Thermal Operating	Yes (Active)
Average Lumen Maintenance @Ta 25°C	70% @ 50,000 Hours
IP Rating	IP40 (Standard), up to IP68 (Modified)
Max Continuous Connection Length	Please refer to installation limitations

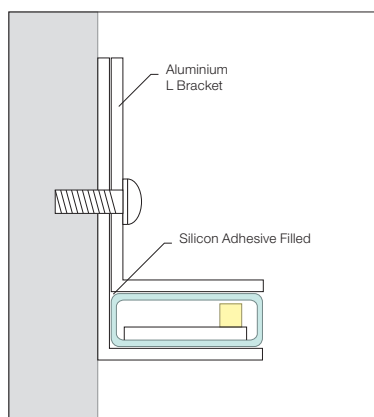
DIMENSIONS

For final strip lengths please refer to the "Product Length" table.

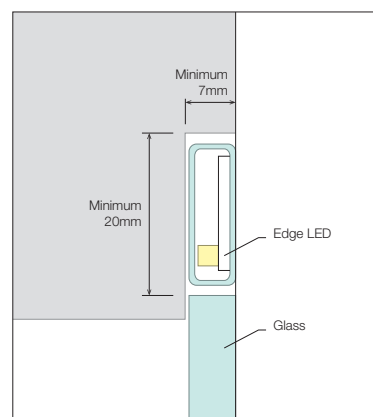


Mounting Clips not available.
Adhesive Silicon recommended.

RECOMMENDED CUSTOM BRACKET ASSEMBLY (NOT SOLD)



RECOMMENDED REBATE EDGE LIGHTING APPLICATIONS



PRODUCT LENGTH

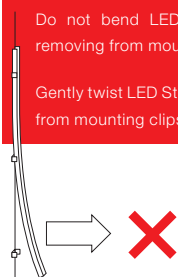
FULL SEGMENTS	SUB SEGMENTS	EXACT STRIP LENGTH	END CAP ALLOWANCE	FINAL LENGTH
0	1	60mm	add 25mm	85mm
0	2	120mm	add 25mm	145mm
0	3	180mm	add 25mm	205mm
0	4	240mm	add 25mm	265mm
1	0	300mm	add 25mm	325mm
1	1	360mm	add 25mm	385mm
1	2	420mm	add 25mm	445mm
1	3	480mm	add 25mm	505mm
1	4	540mm	add 25mm	565mm
2	0	600mm	add 25mm	625mm
2	1	660mm	add 25mm	685mm
2	2	720mm	add 25mm	745mm
2	3	780mm	add 25mm	805mm
2	4	840mm	add 25mm	865mm
3	0	900mm	add 25mm	925mm
3	1	960mm	add 25mm	985mm
3	2	1020mm	add 25mm	1045mm
3	3	1080mm	add 25mm	1105mm
3	4	1140mm	add 25mm	1165mm
4	0	1200mm	add 25mm	1225mm
4	1	1260mm	add 25mm	1285mm
4	2	1320mm	add 25mm	1345mm
4	3	1380mm	add 25mm	1405mm
4	4	1440mm	add 25mm	1465mm
5	0	1500mm	add 25mm	1525mm
5	1	1560mm	add 25mm	1585mm
5	2	1620mm	add 25mm	1645mm
5	3	1680mm	add 25mm	1705mm
5	4	1740mm	add 25mm	1765mm
6	0	1800mm	add 25mm	1825mm
6	1	1860mm	add 25mm	1885mm
6	2	1920mm	add 25mm	1945mm
6	3	1980mm	add 25mm	2005mm
6	4	2040mm	add 25mm	2065mm
7	0	2100mm	add 25mm	2125mm
7	1	2160mm	add 25mm	2185mm
7	2	2220mm	add 25mm	2245mm
7	3	2280mm	add 25mm	2305mm
7	4	2340mm	add 25mm	2365mm
8	0	2400mm	add 25mm	2425mm
8	1	2460mm	add 25mm	2485mm

Confirm Interstate Courier Compliance

⚠ WARNING

Do not bend LED strip when removing from mounting clips.

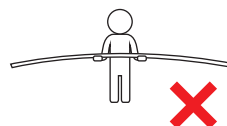
Gently twist LED Strip to remove from mounting clips.



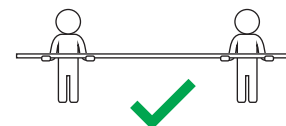
⚠ WARNING

PLEASE HANDLE LONG LED STRIPS WITH CARE.

LED Strips must not be bent.



When handling LED Strips, please ensure that they are kept straight.



PROFILE /
DIFFUSER

LC - Low Profile Clear (XTR-PC20-7)



WIRING
CONFIGURATION

Typical Loom Length 250-400 mm

CONNECTOR TYPE	DRAWING	FEMALE	MALE
WR2OS Wire 2 Core One Side			
WR2BS Wire 2 Core Both Sides			
OC2MO Outdoor Connector 2pin Male Only			
OC2FO Outdoor Connector 2pin Female Only			
OC2MF Outdoor Connector 2pin Male + Female			
SMPLC Sample Type Connector 2.5mm			

- Typical Loom Length 100 – 250mm.
- For detailed information on Outdoor IP67 connector please contact Coolon.
- Extension cables between LED fittings and driver or PSU is based on: LED load, outdoor or indoor applications. Please consult Coolon for details.

WIRING COLOUR CODE	
Red	+ VDC
Black	GND

IP RATING

IP40*

Protected against solid objects greater than 1mm. No protection against liquids.

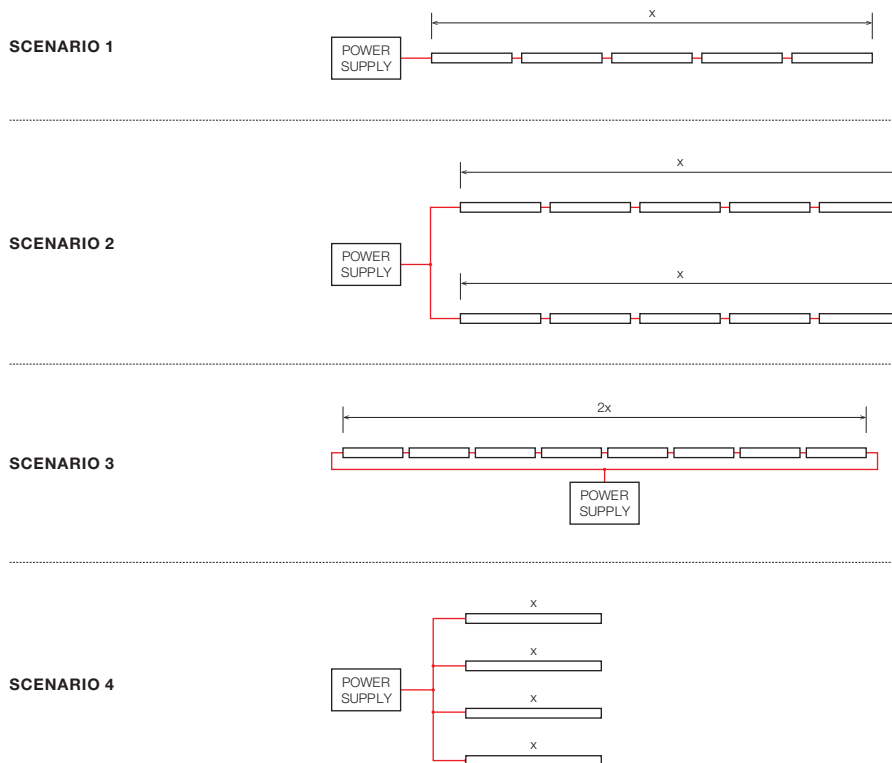
IP65

Fully protected against dust. Protected against water jets from all directions

IP68

Fully protected against dust. Protected against the effects of prolonged immersion under water.

■ INSTALLATION LIMITS



MAX. CONTINUOUS CONNECTION LENGTH (X)	CONNECTOR TYPE
7400 mm	With standard 2 core (WR2OS / WR2BS)
3600 mm	With upgraded outdoor 2 pin connectors (OC2MO / OC2FO / OC2MF)

- Extension cables between LED fittings and driver or PSU is based on: LED load, outdoor or indoor applications. Please consult Coolon for details.

⚠ WARNING

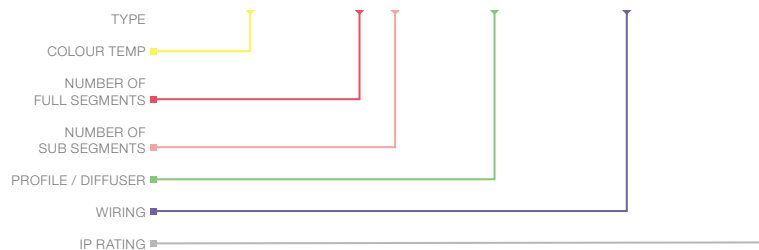
Avoid connecting multiple power supplies into a single circuit, unless they are specifically designed to do so.

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ORDERING EXAMPLE

STR - EDGE - 5.0K - S2A4 - LC - WR2BS - IP40



COLOUR TEMPERATURE PAGE 04

5.0K	5000K
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PROFILE / DIFFUSER PAGE 07

LC	Low Profile Clear (XTR-PC20-7)
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PRODUCT LENGTH PAGE 06

FULL SEGMENTS	SUB SEGMENTS
S1	A0
S2	A1
S3	A2
S4	A3
S5	A4
S6	
S7	
S8	

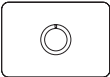

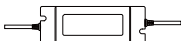

WIRING CONFIGURATION PAGE 07

WR2OS	Wire 2+1 Core One Side
WR2BS	Wire 2+1 Core Both Sides
OC2MO	Outdoor Connector 2 pin Male Only
OC2FO	Outdoor Connector 2 pin Female Only
OC2MF	Outdoor Connector 2 pin Male + Female
SMPLC	Sample Type Connector 2.5mm

IP RATING PAGE 07

IP40
IP65
IP68

■ ACCESSORIES

	PRODUCT CODE	DESCRIPTION
CONTROLLER		
	CTR-PWM-10A	Coolon Wall Dimmer with 10A PWM Output
DRIVER		
	DRV-DALI-1X5A	Indoor DALI Point 1 channel Driver 5A
	DRV-DALI-IP1X10A	Outdoor DALI Point 1 channel Driver 10A
POWER SUPPLY FOR INDOOR USE		
	PWR-PLN20-24V	Mean Well Power Supply PLN 20W 24V IP64 + Flex & Plug
	PWR-PLN30-24V	Mean Well Power Supply PLN 30W 24V IP64 + Flex & Plug
	PWR-PLN60-24V	Mean Well Power Supply PLN 60W 24V IP64 + Flex & Plug
	PWR-PLN100-24V	Mean Well Power Supply PLN 100W 24V IP64 + Flex & Plug
POWER SUPPLY FOR OUTDOOR USE (IP67)		
	PWR-HLG40-24V	Mean Well Power Supply HLG 40W 24V IP67
	PWR-HLG60-24V	Mean Well Power Supply HLG 60W 24V IP67
	PWR-HLG100-24V	Mean Well Power Supply HLG 100W 24V IP67
	PWR-HLG150-24V	Mean Well Power Supply HLG 150W 24V IP67
	PWR-HLG185-24V	Mean Well Power Supply HLG 185W 24V IP67
	PWR-HLG240-24V	Mean Well Power Supply HLG 240W 24V IP67
	PWR-HLG320-24V	Mean Well Power Supply HLG 320W 24V IP67