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SPECTRUM IP

The reliable Spectrum IP Strip allows for smooth colour mixing whilst producing deep and intensely coloured light.
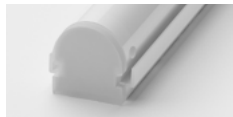
Each LED Strip segment contains 30 RGB LEDs and is perfect for architectural lighting applications. Spectrum IP LED Strip applies advanced technology, using a single RGB diode that allows colour mixing to occur inside the diode, projecting an equally pure, bright and untainted glow of any colour.
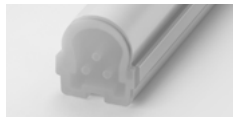
POWER	LUMINOUS FLUX		
15W 15.6W / metre	**SD** · 400 lm / metre	**RD**	**P20T**

RGB FULL COLOUR

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RGB COLOURS

The Spectrum IP offers RGB full gamut of colour ideal for decorative application and dazzling effects.

ELEGANT ENCAPSULATION

Spectrum IP utilises Coolon's encapsulation technology to deliver a truly extraordinary outdoor luminaire. IP65, IK08, shock and abrasion resistance, thermal protection, and dashingly good looks, all in one.

L70

LONG USEFUL OPERATING LIFE

Coolon products use world'smost reputable LED manufacturers and the latest available standard to adequately report luminaire lumen maintenance.

We strive to drive LEDs under their nominal current and use state of the art heat dissipation methods, leading to durable electronics.

FLEXIBLE COLOUR MIXING VARIATIONS

Combining three individual red, green and blue LEDs to provide spectacular colour mixing. Our high performance and superior quality LEDs have the ability to produce 16.7 million colours.

5 YEARS

5 YEARS WARRANTY

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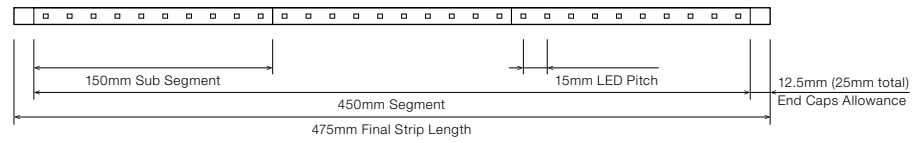
PROUDLY MADE IN AUSTRALIA

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.

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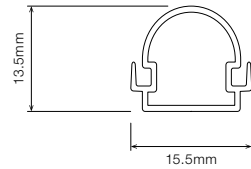sales@coolon.com.au   **aus.** 1300 287 533   **intl.** +613 8681 3633   www.coolon.com.au   Version 1.0
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▪ TECHNICAL SPECIFICATIONS

Product Code	STR-SPECTRUM IP
Description	Spectrum IP RGB LED Strip
Segment Length (S)	450mm
Sub-Segment Length (A)	150mm
Number of Sub-Segments	3
Segment Width	10.50mm
LED Pitch	15.00mm
LEDs Per Segment	30
LEDs Per Sub Segment	10
Operating Voltage	24VDC
Typical Power Consumption per Segment	7.0W per 450mm Segment
Typical Power Consumption per Metre	15.6W per metre
Typical Current per 450mm Segment	■ Red - 61mA ■ Green - 117mA ■ Blue - 114mA
Colour Rendering Index (CRI)	Not Applicable
Dimmable	Through DRV-RDM-P4 and DRV-RDM-IP-P4
Effective Beam Angle	110°
External Heatsink Required	No
Ambient Operating Temp	Ta -40°C to 50°C
Thermal Management	Yes (Active)
Average Lumen Maintenance @Ta 25°C	70% @ 50,000 Hours
IP Rating	IP65 (Standard), up to IP68
Max Continuous Connection Length	Please refer to installation limitations
Wavelength	■ Red - 626nm ■ Green - 535nm ■ Blue - 472nm

▪ DIMENSIONS

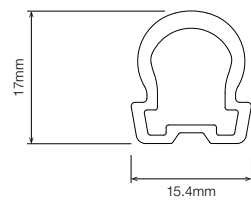For final strip lengths please refer to the "Product Length" table.

150mm Sub Segment — 15mm LED Pitch — 12.5mm (25mm total) End Caps Allowance

450mm Segment

475mm Final Strip Length

STANDARD PROFILE

13.5mm

15.5mm

AVAILABLE IN

Diffused

MOUNTING OPTIONS

▪ **MC-STR-1513**
  Stainless Steel Mounting Clips

REINFORCED PROFILE

17mm

15.4mm

AVAILABLE IN

Diffused

MOUNTING OPTIONS

▪ **MC-STR-RD**
  Stainless Steel Mounting Clips

20mm Cable Exit and End Cap Allowance — 158.3mm Sub Segment — 15mm LED Pitch — 20mm End Caps Allowance

475mm Segment

515mm Final Strip Length

P20 PROFILE

22.5mm

20mm
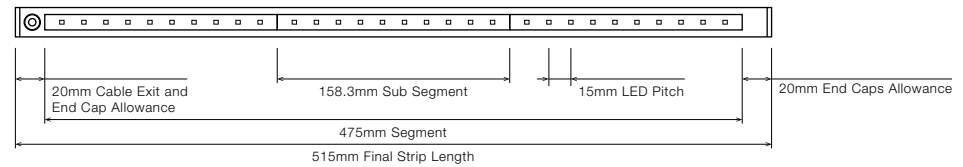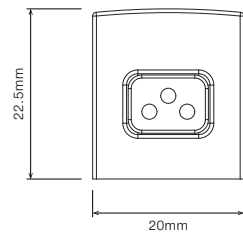
AVAILABLE IN

Diffused

MOUNTING OPTIONS

▪ **MC-CCLIP20**
  Stainless Steel C-Clip for P20 Profile

▪ **MC-STR-P20R**
  Rotating Clip Mount for P20 Profile

Click on the download icon to view more information regarding mounting and rebate suggestions.

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▪ PRODUCT
LENGTH WITH
SD/RD

FULL SEGMENTS	SUB SEGMENTS	EXACT STRIP LENGTH	END CAP ALLOWANCE	FINAL LENGTH
S0	A1	150mm	add 25mm	175mm
S0	A2	300mm	add 25mm	325mm
S1	A0	450mm	add 25mm	475mm
S1	A1	600mm	add 25mm	625mm
S1	A2	750mm	add 25mm	775mm
S2	A0	900mm	add 25mm	925mm
S2	A1	1,050mm	add 25mm	1,075mm
S2	A2	1,200mm	add 25mm	1,225mm
S3	A0	1,350mm	add 25mm	1,375mm
S3	A1	1,500mm	add 25mm	1,525mm
S3	A2	1,650mm	add 25mm	1,675mm
S4	A0	1,800mm	add 25mm	1,825mm
S4	A1	1,950mm	add 25mm	1,975mm
S4	A2	2,100mm	add 25mm	2,125mm
S5	A0	2,250mm	add 25mm	2,275mm
S5	A1	2,400mm	add 25mm	2,425mm

▢ Confirm interstate courier compliance

▪ Custom length subject to availability

▪ PRODUCT
LENGTH WITH
P20T

| FULL SEGMENTS	SUB SEGMENTS	EXACT STRIP LENGTH	END CAP ALLOWANCE	FINAL LENGTH
PS0	A1	175mm	add 40mm	215mm
PS0	A2	325mm	add 40mm	365mm
PS1	A0	475mm	add 40mm	515mm
PS1	A1	625mm	add 40mm	665mm
PS1	A2	775mm	add 40mm	815mm
PS2	A0	925mm	add 40mm	965mm
PS2	A1	1,075mm	add 40mm	1,115mm
PS2	A2	1,225mm	add 40mm	1,265mm
PS3	A0	1,375mm	add 40mm	1,415mm
PS3	A1	1,525mm	add 40mm	1,565mm
PS3	A2	1,675mm	add 40mm	1,715mm
PS4	A0	1,825mm	add 40mm	1,865mm
PS4	A1	1,975mm	add 40mm	2,015mm
PS4	A2	2,125mm	add 40mm	2,165mm
PS5	A0	2,275mm	add 40mm	2,315mm
PS5	A1	2,425mm	add 40mm	2,465mm
PS5	A2	2,575mm	add 40mm	2,615mm
PS6	A0	2,725mm	add 40mm	2,765mm
PS6	A1	2,875mm	add 40mm	2,915mm

▢ Confirm interstate courier compliance

▪ Custom length subject to availability

⚠ **WARNING**
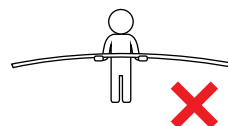
Do not bend LED strip when removing from mounting clips.

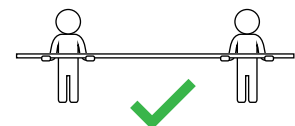Gently twist LED Strip to remove from mounting clips.
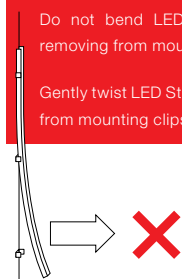
⚠ **WARNING**
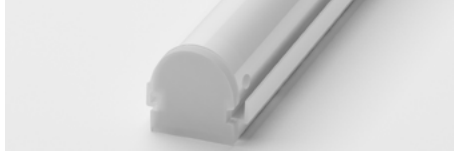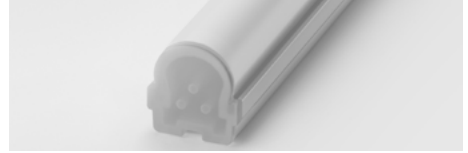
PLEASE HANDLE LONG LED STRIPS WITH CARE.

LED Strips must not be bent.

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

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■ PROFILE /
DIFFUSER

SD · Standard Profile Diffused

RD · Reinforced Profile Diffused

P20T · P20 Profile Diffused

■ PROFILE
COLOUR

Profile colour applicable to P20 only.

BLK · Black (Standard)

WHT · White (Standard)

CST · Custom Colour [1]

[1]   Custom colours available on request.

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▪ WIRING CONFIGURATION

CONNECTOR TYPE	DRAWING	MALE	FEMALE
WR4OS Wire 4 Core One Side		⬤⬤ ⬤⬤	
WR4BS Wire 4 Core Both Sides		⬤⬤ ⬤⬤	⬤⬤ ⬤⬤
OC4MO Outdoor Connector 4pin Male Only			
OC4MF Outdoor Connector 4pin Male + Female			

▪ Please consult Coolon for details on extension cable between LED fittings, drivers and power supplies.

WIRING COLOUR CODE	
White	+ VDC
Red	GND (RED)
Green	GND (GREEN)
Blue	GND (BLUE)

▪ IP RATING

IP65

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

▪ SD Profile [1]

▪ RD Profile [1]

▪ P20T Profile [2]

IP68

Fully protected against dust. Protected against the effects of prolonged immersion under water.
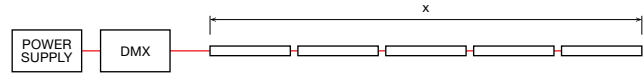
▪ SD Profile [1]

▪ RD Profile [1]

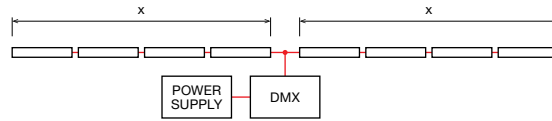[1] IP65 and IP68 rating is only available for length up to 2,400mm for SD and RD profiles.

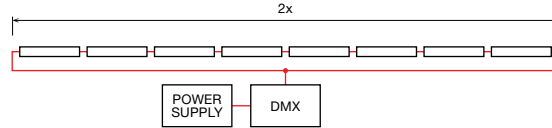[2] IP65 rating is only available for lengths up to 3,000mm for P20T profile.

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▪ INSTALLATION LIMITS

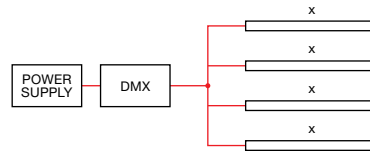**SCENARIO 1**

SCENARIO 2

SCENARIO 3

SCENARIO 4 [1]

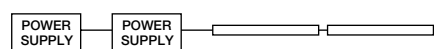[1] Scenario 4 is the only wiring option available for IP68.

MAX. CONTINUOUS CONNECTION LENGTH (X)	CONNECTOR TYPE
5,400 mm	With standard 4 core (WR4OS / WR4BS)
4,000 mm	With upgraded outdoor 4 pin connectors (OC4MO / OC4FO / OC4MF)

▪ Please consult Coolon for details on extension cables between LED fittings, drivers and PSUs.

▪ DMX Driver can only drive runs totalling 6Amps or less.

▪ Maximum run length of RGB strip may be restricted by DMX / RDM driver.
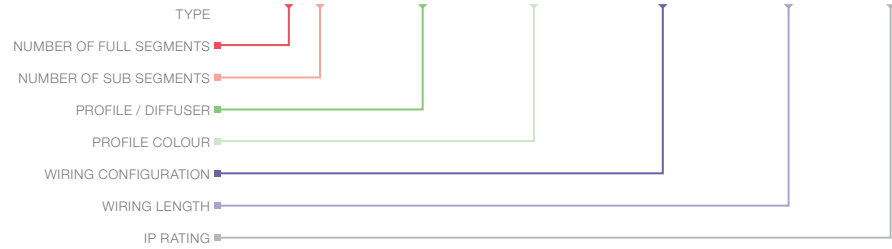Please refer to Coolon's Driver brochures.

⚠ WARNING

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

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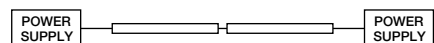
▪ ORDERING EXAMPLE

STR - SPECTRUM IP - S2A1 - P20T - BLK - OC4MO - 100 - IP65

TYPE
NUMBER OF FULL SEGMENTS
NUMBER OF SUB SEGMENTS
PROFILE / DIFFUSER
PROFILE COLOUR
WIRING CONFIGURATION
WIRING LENGTH
IP RATING

▪ PRODUCT LENGTH PAGE 06

FULL SEGMENTS		SUB SEGMENTS
S0	PS0	A0
S1	PS1	A1
S2	PS2	A2
S3	PS3	
S4	PS4	
S5	PS5	
	PS6	

▪ PROFILE / DIFFUSER PAGE 07

SD	Standard Profile Diffused
RD	Reinforced Profile Diffused
P20T	P20 Profile Diffused [1]

▪ PROFILE COLOUR [2] PAGE 07

BLK	Black (Standard)
WHT	White
CST	Custom Colour

▪ WIRING CONFIGURATION PAGE 08

WR4OS	Wire 4 Core One Side
WR4BS	Wire 4 Core Both Sides
OC4MO	Outdoor Connector 4 pin Male Only
OC4MF	Outdoor Connector 4 pin Male + Female

▪ WIRING LENGTH PAGE 09

100	100mm
250	250mm
500	500mm
1000	1,000mm

▪ IP RATING PAGE 08

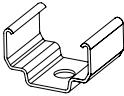| IP65	Outdoor Use [3 / 4]
IP68	Prolonged Immersion Use [3]

[1] IK08 rating only available for P20T profile.

[2] Profile colour applicable to P20 profile only. Custom colours available on request.

[3] IP65 and IP68 rating is only available for length up to 2,400mm for SD and RD profiles.

[4] IP65 rating is only available for lengths up to 3,000mm for P20T profile.

▪ ACCESSORIES

PRODUCT CODE	DESCRIPTION
MOUNTING CLIP [1]	
MC-STR-1513	Stainless Steel Mounting Clips for Standard & Low Profile
MC-STR-RD	Stainless Steel Mounting Clips for Reinforced Profile
MC-CCLIP20	Stainless Steel C-Clip for P20 Profile
MC-STR-P20R	Rotating Clip Mount for P20 Profile

[1] Recommended spacing between MC-STR-RD and MC-STR-1513 Mounting Clips is maximum 300mm. Recommended spacing for all other Mounting Clips is maximum 500mm.

PRODUCT CODE	DESCRIPTION
DRIVER	
DRV-RDM-P4	DMX / RDM 4 Channel LED Driver
DRV-RDM-IP-P4	Outdoor DMX / RDM 4 Channel LED Driver
DRV-RDM-IPQC-P4	Outdoor RDM Point 4 Channel PWM LED Driver + Quick Connectors
DRV-RDM-IPQC05-P4	Outdoor RDM Point 4 Channel PWM LED Driver + Quick Connectors

PRODUCT CODE	DESCRIPTION
POWER SUPPLY FOR OUTDOOR USE (IP67)	
PWR-HLG-60H-24AU	Mean Well Power Supply HLG 60W 24V IP67
PWR-HLG-150H-24AU	Mean Well Power Supply HLG 150W 24V IP67
PWR-HLG-240H-24AU	Mean Well Power Supply HLG 240W 24V IP67
PWR-HLG-320H-24AU	Mean Well Power Supply HLG 320W 24V IP67

PRODUCT CODE	DESCRIPTION
CABLE EXTENSIONS	
CBLEXT-STR-WR4-IP40-3M	3m Cable Extension for Strips 2x Red and 2x Black, 0.75mm² wire
CBLEXT-STR-WR4-IP40-5M	5m Cable Extension for Strips 2x Red and 2x Black, 0.75mm² wire
CBLEXT-STR-OC4-IP65-3M	3m Connector Extension for Strips 2x Red and 2x Black, 0.75mm² wire
CBLEXT-STR-OC4-IP65-5M	5m Connector Extension for Strips 2x Red and 2x Black, 0.75mm² wire

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