PRIMO X2

LED STRIP STR-PRIMO X2

Primo X2 utilizes highly efficient LED chips and is offered in a broad range of colour temperatures.

Each segment (480mm) features 24 micro high-power LEDs and is perfect for many commercial lighting applications where value and performance are required. Primo X2 features inbuilt dimming and thermal management.

POWER	LUMINOUS FLUX		
21W 21.6W / metre	**SD** · 1,400 lm / metre	**RD** · 1,570 lm / metre	**P17D** · 1,330 lm / metre

COLOUR TEMPERATURE

2700K   3000K   4000K   5000K

HIGH PERFORMANCE

ECONOMICAL

Primo X2 is designed to provide the highest lumen output for budget applications. It offers a reasonably high lumen package while maintaining high performance and exceptional reliability.

VERSATILE LENGTH OPTIONS

Versatile length options allow the user to achieve accurate and adaptable lengths. Primo X2 can achieve any desired length in 120mm increments.

L90

LONG OPERATING LIFE

Coolon products use the world's most reputable LED manufacturers and the latest available standards to adequately report lumen maintenance. We strive to drive LEDs under their nominal current and usestate-of-the-art heat dissipation methods, leading to durable electronics.

VARIOUS CCT & COLOUR BINNING CONSISTENCY

All products are offered in various colour temperatures, and manufactured using tighter bins, ensuring excellent consistency and uniformity.

5 YEARS

5 YEARS 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.
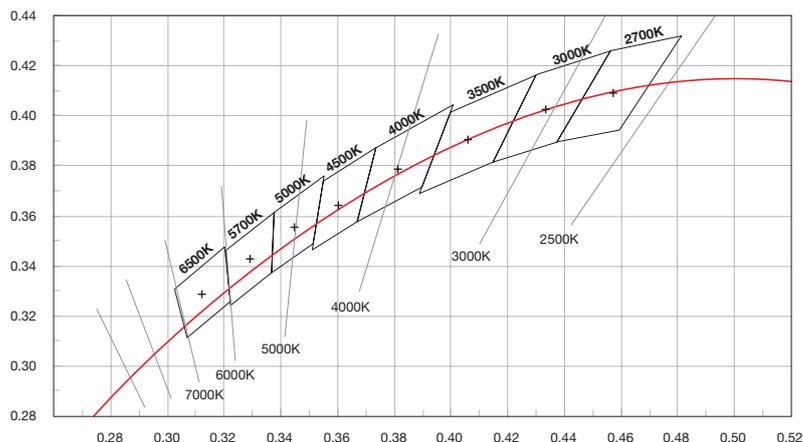
PROUDLY MADE IN AUSTRALIA

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.

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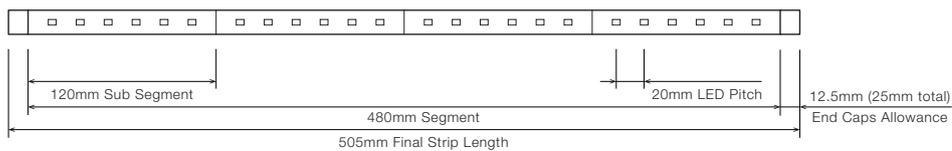archsales@coolon.com.au   **aus.** 1300 287 533   **intl.** +613 8681 3633   www.coolon.com.au   Version 3.3
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▪ TECHNICAL SPECIFICATIONS

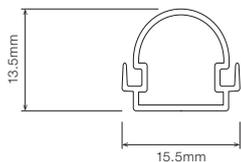|	
Product Code	STR-PRIMO X2
Description	Primo X2 High Power LED Strip
Segment Length (S)	480mm
Sub-Segment Length (A)	120mm
Number of Sub-Segments	4
Segment Width	10.50mm
LED Pitch	20.00mm
LEDs Per Segment	24
LEDs Per Sub Segment	6
Operating Voltage	24VDC
Typical Power Consumption per Segment	10.35W per 480mm Segment
Typical Power Consumption per Metre	21.6W per metre
Typical Current	431mA per 480 mm Segment
Colour Rendering Index (CRI)	80+
Dimmable	Through CTR-DALILOGIC or CTR-DIMMERLOGIC (sold separatelly)
Effective Beam Angle	110°
External Heatsink Required	No
Ambient Operating Temp	Ta -10°C to 50°C
Thermal Operating	Yes (Active)
Average Lumen Maintenance @Ta 25°C	70% @ 50,000 Hours
IP Rating	IP40
Max Continuous Connection Length	Please refer to installation limitations

▪ COLOUR BINNING

• DIMENSIONS

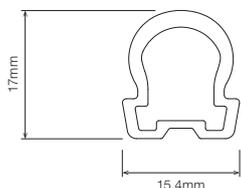For final strip lengths please refer to the "Product Length" table.

120mm Sub Segment
480mm Segment
505mm Final Strip Length
20mm LED Pitch
12.5mm (25mm total)
End Caps Allowance

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

P17 PROFILE
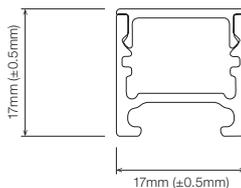
17mm (±0.5mm)
17mm (±0.5mm)
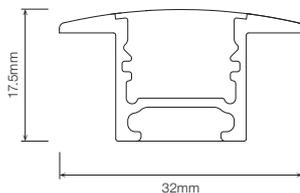
AVAILABLE IN

Diffused

MOUNTING OPTIONS

• **MC-XCLIP**
   Flat Mount X-Clip

• **MC-STR-RBCLIP**
   Rebate Mounting Clip

• **MC-STR-SMCLIP**
   Pivot Surface Mounting Clip

• **MBR-RB-TA-P17**
   Rotating Bracket,
   TYPE A Rotating Clip

• **MBR-RB-TB-P17**
   Rotating Bracket,
   TYPE B Rotating Clip

PR17 RECESSED PROFILE

17.5mm
32mm

AVAILABLE IN

Diffused

MOUNTING OPTIONS

• **MC-XCLIP**
   Flat Mount X-Clip

• **MC-STR-RBCLIP**
   Rebate Mounting Clip

• **MC-STR-PR1732**
   Spring Mounting Clip

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

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▪ PRODUCT LENGTH SD/RD/P17

FULL SEGMENTS	SUB SEGMENTS	EXACT STRIP LENGTH	END CAP ALLOWANCE	FINAL LENGTH
S0	A1	120mm	add 25mm	145mm
S0	A2	240mm	add 25mm	265mm
S0	A3	360mm	add 25mm	385mm
S1	A0	480mm	add 25mm	505mm
S1	A1	600mm	add 25mm	625mm
S1	A2	720mm	add 25mm	745mm
S1	A3	840mm	add 25mm	865mm
S2	A0	960mm	add 25mm	985mm
S2	A1	1,080mm	add 25mm	1,105mm
S2	A2	1,200mm	add 25mm	1,225mm
S2	A3	1,320mm	add 25mm	1,345mm
S3	A0	1,440mm	add 25mm	1,465mm
S3	A1	1,560mm	add 25mm	1,585mm
S3	A2	1,680mm	add 25mm	1,705mm
S3	A3	1,800mm	add 25mm	1,825mm
S4	A0	1,920mm	add 25mm	1,945mm
S4	A1	2,040mm	add 25mm	2,065mm
S4	A2	2,160mm	add 25mm	2,185mm
S4	A3	2,280mm	add 25mm	2,305mm
S5	A0	2,400mm	add 25mm	2,425mm
S5	A1	2,520mm	add 25mm	2,545mm
S5	A2	2,640mm	add 25mm	2,665mm
S5	A3	2,760mm	add 25mm	2,785mm
S6	A0	2,880mm	add 25mm	2,905mm
S6	A1	3,000mm	add 25mm	3,025mm
S6	A2	3,120mm	add 25mm	3,145mm
S6	A3	3,240mm	add 25mm	3,265mm
S7	A0	3,360mm	add 25mm	3,385mm

▢ 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.

COOLON

▪ PRODUCT LENGTH PR17

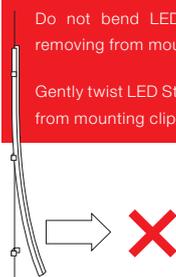| FULL SEGMENTS	SUB SEGMENTS	EXACT STRIP LENGTH	END CAP ALLOWANCE	FINAL LENGTH
RS0	A1	120mm	add 40mm	160mm
RS0	A2	240mm	add 40mm	280mm
RS0	A3	360mm	add 40mm	400mm
RS1	A0	480mm	add 40mm	520mm
RS1	A1	600mm	add 40mm	640mm
RS1	A2	720mm	add 40mm	760mm
RS1	A3	840mm	add 40mm	880mm
RS2	A0	960mm	add 40mm	1,000mm
RS2	A1	1,080mm	add 40mm	1,120mm
RS2	A2	1,200mm	add 40mm	1,240mm
RS2	A3	1.320mm	add 40mm	1,360mm
RS3	A0	1,440mm	add 40mm	1,480mm
RS3	A1	1,560mm	add 40mm	1,600mm
RS3	A2	1,680mm	add 40mm	1,720mm
RS3	A3	1,800mm	add 40mm	1,840mm
RS4	A0	1,920mm	add 40mm	1,960mm
RS4	A1	2,040mm	add 40mm	2,080mm
RS4	A2	2,160mm	add 40mm	2,200mm
RS4	A3	2,280mm	add 40mm	2,320mm
RS5	A0	2,400mm	add 40mm	2,440mm
RS5	A1	2,520mm	add 40mm	2,560mm
RS5	A2	2,640mm	add 40mm	2,680mm
RS5	A3	2,760mm	add 40mm	2,800mm
RS6	A0	2,880mm	add 40mm	2,920mm

▢ Confirm interstate courier compliance

▪ Custom length subject to availability

⚠ **WARNING**

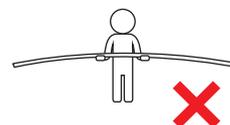Do not bend LED strip when removing from mounting clips.

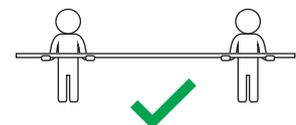Gently twist LED Strip to remove from mounting clips.

❌

⚠ **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.

❌ ✅
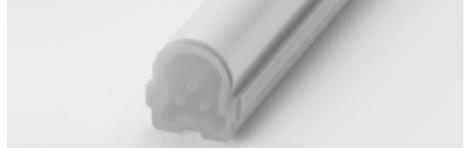

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▪ PROFILE /
DIFFUSER

SD · Standard Profile Diffused

RD · Reinforced Profile Diffused

P17D · P17 Profile Diffused

PR17D · PR17 Profile Recessed Diffused

▪ PROFILE
COLOUR

Profile colour applicable to P17 and PR17 only.

BLK · Black (Standard)

WHT · White

CST · Custom Colour [1]

[1] Custom colours available on request.

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▪ WIRING CONFIGURATION

CONNECTOR TYPE	DRAWING	MALE	FEMALE
WR2.1OS Wire 2+1 Core One Side		● ● ●	
WR2.1BS Wire 2+1 Core Both Sides		● ● ●	● ● ●
OC2.1MO Outdoor Connector 2+1 pin Male Only		▣	
OC2.1MF Outdoor Connector 2+1 pin Male + Female		▣	▣
SMPLC.1 Sample Type Connector 2.5mm		● ◎	

▪ For detailed information on Outdoor IP67 connector please contact Coolon.

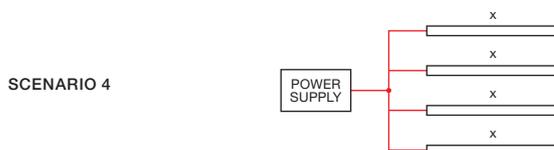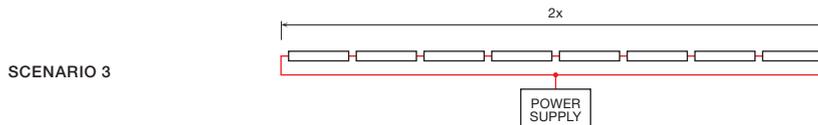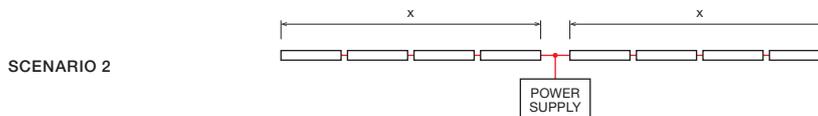▪ Please consult Coolon for details on extension cable between LED fittings, drivers and power supplies.

WIRING COLOUR CODE	
Red	+ VDC
Black	GND
White	Dimming

▪ IP RATING

IP40

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

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▪ INSTALLATION LIMITS

SCENARIO 1

SCENARIO 2

SCENARIO 3

SCENARIO 4

MAX. CONTINUOUS CONNECTION LENGTH (X)	CONNECTOR TYPE
6,500 mm	With standard 2+1 core (WR2.1OS / WR2.1BS)
7,700 mm	With upgraded 4+1 core (WR4.1OS / WR4.1BS)
2,600 mm	With upgraded outdoor 2+1 pin connectors (OC2.1MO / OC2.1MF)
4,600 mm	With upgraded outdoor 4+1 pin connectors (OC4.1MO / OC4.1MF)

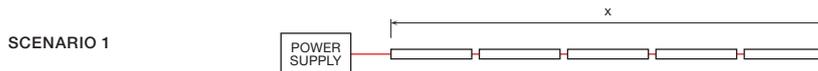▪ Please consult Coolon for details on extension cable between LED fittings, drivers and power supplies.
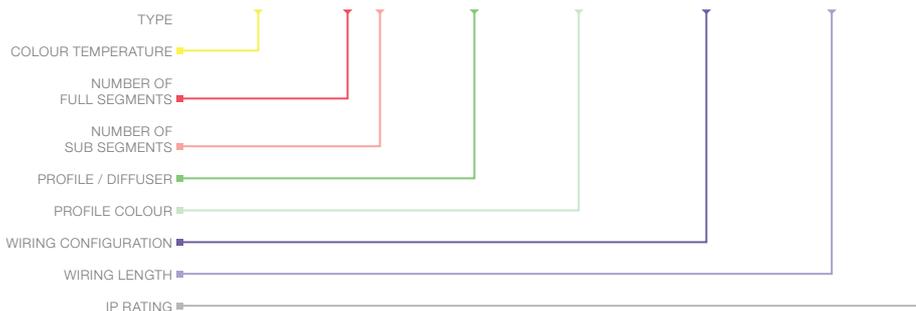
⚠ WARNING

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

▪ ORDERING EXAMPLE

STR - PRIMO X2 - 3.0K - S2A0 - P17D - BLK - WR2.1BS - 100 - IP40

TYPE

COLOUR TEMPERATURE

NUMBER OF FULL SEGMENTS

NUMBER OF SUB SEGMENTS

PROFILE / DIFFUSER

PROFILE COLOUR

WIRING CONFIGURATION

WIRING LENGTH

IP RATING

▪ COLOUR TEMPERATURE ¹ PAGE 04

2.7K	2700K
3.0K	3000K
4.0K	4000K
5.0K	5000K

▪ PRODUCT LENGTH PAGE 06

FULL SEGMENTS	SUB SEGMENTS	
S0	RS0	A0
S1	RS1	A1
S2	RS2	A2
S3	RS3	A3
S4	RS4	
S5	RS5	
S6	RS6	
S7		

▪ PROFILE / DIFFUSER PAGE 07

SD	Standard Profile Diffused
RD	Reinforced Profile Diffused
P17D	P17 Profile Diffused
PR17D	PR17 Recessed Profile Diffused

▪ PROFILE COLOUR ² PAGE 07

BLK	Black (Standard)
WHT	White
CST	Custom Colour

▪ WIRING CONFIGURATION PAGE 08

WR2.1OS	Wire 2+1 Core One Side
WR2.1BS	Wire 2+1 Core Both Sides
OC2.1MO	Outdoor Connector 2+1 pin Male Only
OC2.1MF	Outdoor Connector 2+1 pin Male + Female
SMPLC.1	Sample Type Connector 2.5mm

▪ WIRING LENGTH PAGE 09

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

▪ IP RATING PAGE 08

IP40	Indoor Use

¹ Other CCT subject to availability.

² Profile colour applicable to P17 and PR17 only. Custom colours available on request.

▪ 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-XCLIP	Flat Mount X-Clip
MC-STR-RBCLIP	Rebate Mounting Clip
MC-STR-SMCLIP	Pivot Surface Mounting Clip
MBR-RB-TA-P17-BLK	Rotating Bracket, TYPE A Rotating Clip - Black
MBR-RB-TB-P17-BLK	Rotating Bracket, TYPE B Rotating Clip - Black
MC-STR-PR1732	Spring Mounting Clip for PR17 Recessed 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.

CONTROLLER	
CTR-A2PWM 0-10V	Analogue to PWM converter for 0 – 10V dimming signal
CTR-DIMMERLOGIC	Coolon Universal Wall Dimmer with 0 – 10V and PWM Logic Output
CTR-DALI-LOGIC	Indoor DALI Point 1 channel Driver with PWM Logic Output
CTR-DALILOGIC-IP	Outdoor DALI Point 1 channel Driver with PWM Logic Output

POWER SUPPLY	
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

CABLE EXTENSIONS	
CBLEXT-STR-WR2.1-IP40-3M	3m Cable Extension for Strips Red, Black and White, 0.75mm^2 wire
CBLEXT-STR-WR2.1-IP40-5M	5m Cable Extension for Strips Red, Black and White, 0.75mm^2 wire
CBLEXT-STR-OC2.1-IP65-3M	3m Connector Extension for Strips 1x Red, 1x Black, 1x White, 0.75mm^2 wires
CBLEXT-STR-OC2.1-IP65-5M	5m Connector Extension for Strips 1x Red, 1x Black, 1x White, 0.75mm^2 wires
CBLEXT-STR-WR4.1-IP40-3M	3m Cable Extension for Strips 2x Red, 2x Black, 1x White, 0.75mm^2 wires
CBLEXT-STR-WR4.1-IP40-5M	5m Cable Extension for Strips 2x Red, 2x Black, 1x White, 0.75mm^2 wires
CBLEXT-STR-OC4.1-IP65-3M	3m Connector Extension for Strips 2x Red, 2x Black, 1x White, 0.75mm^2 wires
CBLEXT-STR-OC4.1-IP65-5M	5m Connector Extension for Strips 2x Red, 2x Black, 1x White, 0.75mm^2 wires

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Version 3.3
Page 12