LATITUDE
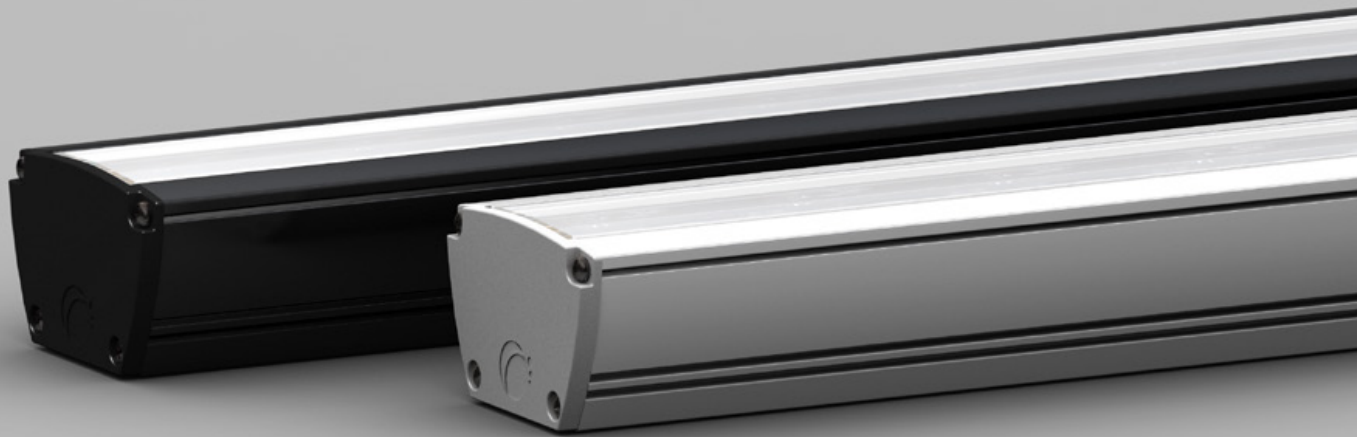
Latitude is a high power linear RGBW luminaire, specifically designed for creative wall washing and grazing applications.

With unparalleled colour quality and collimation, Latitude is ideal for flooding spaces with coloured light. Its compact size and multiple length options allow for considerable design flexibility.

POWER (DC)	POWER (AC)	LUMINOUS FLUX
60W	**30W**	
60W / metre	32W / pixel	

SD · Varies with colour combination

RGBW FULL COLOUR

INTELLIGENT POWER BALANCE

Intelligent Power Balance allows the Latitude luminaire to distribute power and intensity to where it is most required. The DC fitting is designed to dissipate a maximum of 60W per metre, whilst at the same time allowing the user to extract the most out of each colour channel if required.

HIGHLY CONFIGURABLE

Latitude can be configured in multiple ways to fit any project for both interior and exterior applications.

L70

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 use state-of-the-art heat dissipation methods, leading to durable electronics.

ADVANCED QUAD CHIP LEDS

Multi-colour LED that provides high lumen output in a small package. A small optical source for excellent optical control and efficient colour mixing can reduce LED system complexity by reducing the number of components required.

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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- ## TECHNICAL SPECIFICATIONS

	DC VERSION	AC VERSION
Product Code	PRJ-LAT	
Description	Latitude RGBW Linear High Power Projector	
Body	Aluminium Alloy Body	
Finish	Powder Coated Black (Standard), Various Colours Available	
Cover	Polycarbonate Diffused for Indoor applications	
End Caps	Polycarbonate	
LEDs per Segment / Pixel	6	
Segment / Pixel Size	330mm	
LED	Cree XMLC RGBW, White Chip CRI 80	
Operating Voltage	24VDC	120 – 277VAC
Max. Power Consumption	60W per Metre	32W per Pixel
Max. Continuous Connection Length	Please refer to installation limitations	
Dimming / Control	Through DRV-RDM-P4 and DRV-RDM-IP-P4	Self Addressable DMX (Full Frames), 3 Channels per pixel - Full Frames
External Heatsink Required	No	
Ambient Operating Temperature	Ta -10°C to 40°C	
Thermal Management	Yes (Active)	
Reported Lumen Maintenance TM21-11 (@ Ts = 85°C, If = 1000mA)	Cree XMLC - L70 (12K) > 53,800 hours [1] Latitude max. operating values (@ Ts = 80°C, If = 500mA)	(@ Ts = 80°C, If = 700mA)
IP Rating	IP40 (Standard)	

[1] Extrapolation based on LED manufacturer TM-21 lifetimes. Subject to change without notice.

[2] Please refer to product brochure documentation for specific details not shown in this document.
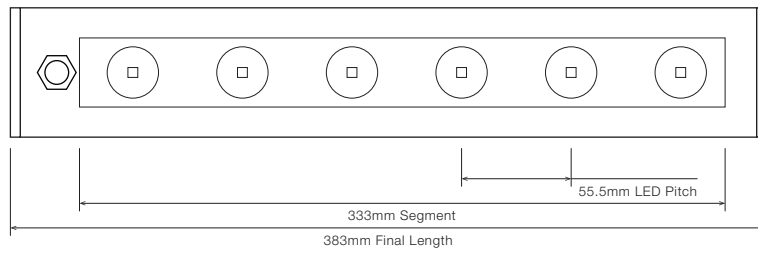
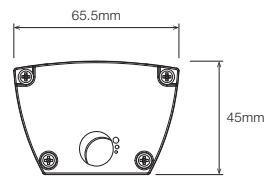- ## ELECTRICAL AC INPUT SPECIFICATIONS

(@25°C ambient temperature)

	Minimum	Typical	Maximum	Notes
Input Voltage Range (Vin)	90VAC	120VAC 230VAC 277VAC	277	• The rated output voltage is achieved at Vin ≥ 105VAC & @ Vin ≥ 198VAC • At maximum load
Input Frequency Range	47Hz	50 / 60Hz	63Hz	
Input Current (Iin)			1.05A @ 120VAC 0.58A @ 230VAC 0.48A @ 277VAC	
Power Factor (PF)	0.9	> 0.9		• At nominal input voltage • From 100% to 60% of rated power
Inrush Current	Meets NEMA-410 requirements			• At any point on the sine wave and 25°C
Leakage Current			400 µA @ 120 VAC 800 µA @ 230 VAC 920 µA @ 277 VAC	• Measured per IEC60950-1
Input Harmonics	Complies with IEC61000-3-2 for Class C equipment			
Total Harmonics Distortion (THD)			20%	• At nominal input voltage • From 100% to 60% of rated power • Complies with DLC (Design Light Consortium) technical requirements
Efficiency		Up to 92%		• Measured with nominal input voltage

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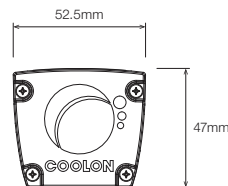
▪ DIMENSIONS

For final strip lengths please refer to the "Product Length" table.
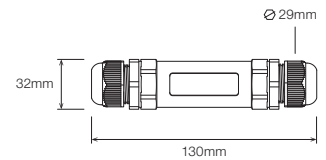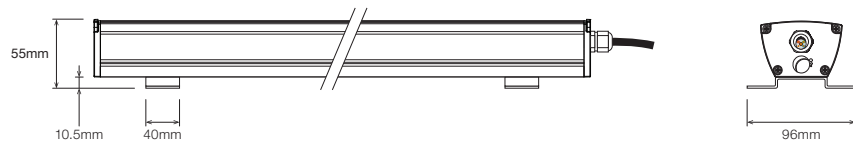
55.5mm LED Pitch

333mm Segment

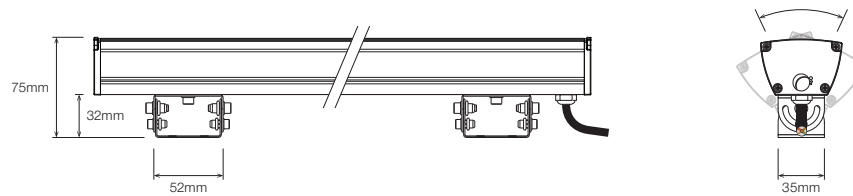383mm Final Length

DC

65.5mm

45mm

AC

52.5mm

47mm

CABLE EXTENSION JOINER

⌀ 29mm

32mm

130mm

FLAT MOUNTING BRACKET

55mm

10.5mm   40mm

96mm

25° ROTATING MOUNTING BRACKET

75mm

32mm

52mm

35mm

90° ROTATING MOUNTING BRACKET

96mm

53.5mm

52.4mm

35mm

ARCHITECTURAL SWIVEL BRACKET

142.5mm

100.5mm

40mm

65mm

FLAT ROTATING MOUNTING BRACKET 90°

96mm

53.5mm

52.4mm

135mm

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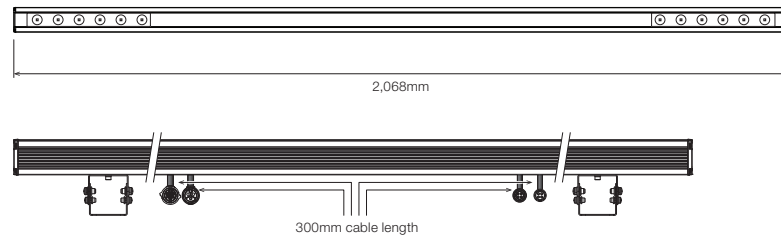All documentation is subject to change without notice. Refer to our website for the latest information.   Page 5
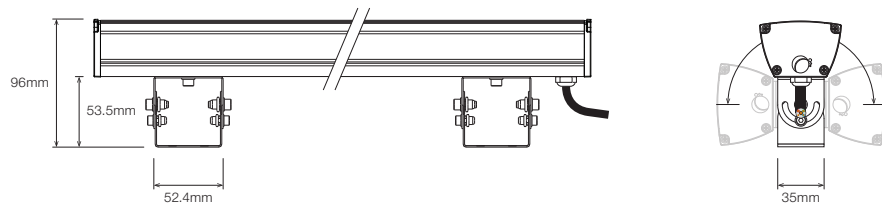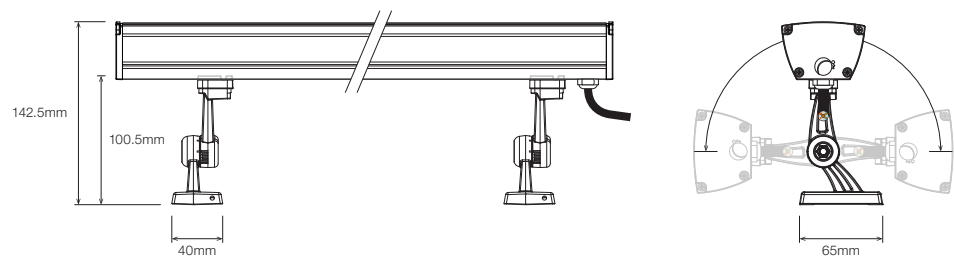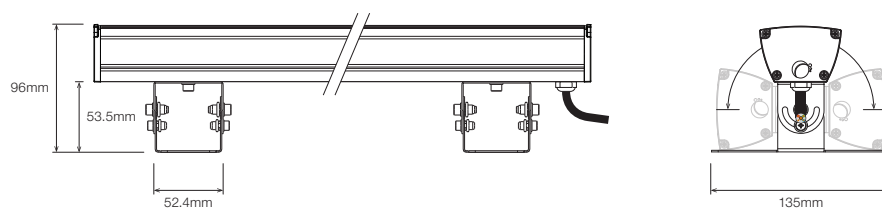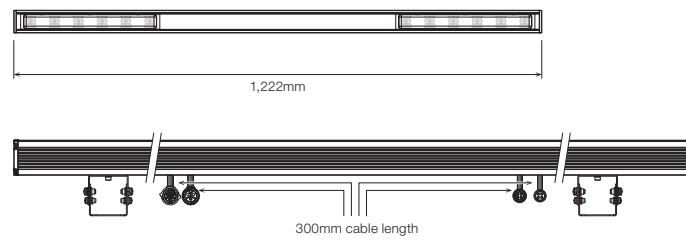
▪ DIMENSIONS (AC)

CST6 S2

Projector Latitude - S2 Extended - 2 Pixel - Flare Optics - Polyurethane
Encapsulation - White Body - 2,068mm - Integral PSU & Driver
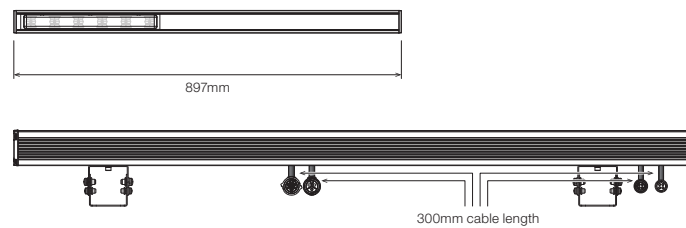
2,068mm

300mm cable length

CST6A S2

Projector Latitude - S2 Compact - 2 Pixel - Flare Optics - Polyurethane
Encapsulation - White Body - 1,222mm - Integral PSU & Driver

1,222mm
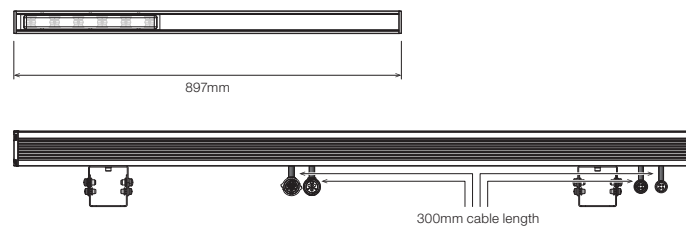
300mm cable length

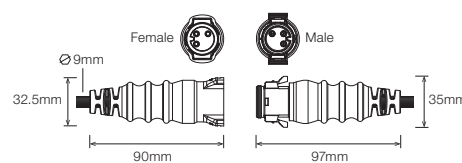### CST6 S1L [1]

Projector Latitude - S1 - 1 Pixel Left - Flare Optics - Polyurethane
Encapsulation - White Body - 897mm - Integral PSU & Driver

897mm

300mm cable length

CST6 S1L [1]

Projector Latitude - S1 - 1 Pixel Left - Flare Optics - Polyurethane
Encapsulation - White Body - 897mm - Integral PSU & Driver

897mm

300mm cable length

3PIN CONNECTORS

Female
⌀9mm
32.5mm
90mm

Male
35mm
97mm

4PIN CONNECTORS

Female
⌀6mm
18mm
55.5mm

Male
16mm
59mm
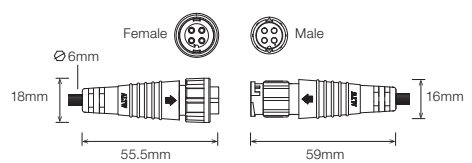
[1] Please observe orientation and location of installation per luminaire cut sheet.

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▪ PRODUCT LENGTH (DC)

	WIRE FROM ONE SIDE	WIRE FROM BOTH SIDE	
S1	383mm	403mm	
S2	716mm	736mm	
S3	1,049mm	1,069mm	
S4	1,382mm	1,402mm	
S5	1,715mm	1,735mm	
S6	2,048mm	N/A	
S7	2,381mm	N/A	
S8	2,714mm	N/A	

▪ PRODUCT LENGTH (AC)

CST6 S2	2,068mm	
CST6A S2	1,222mm	
CST6 S1L	897mm	
CST6 S1R	897mm	

▪ POLAR DISTRIBUTION

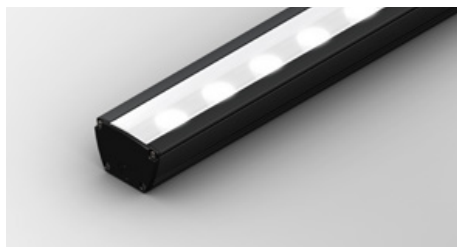| OPTIC		POLAR DISTRIBUTION
14D Narrow Beam 14° Beam Angle		
50D Wide Beam 50° Beam Angle		
F10020D Flare Beam Flare 100° x 20° Beam Angle		
O4018D Oval Beam Oval 40° x 18° Beam Angle		
R4018D Oval Rotated Beam Oval 18° x 40° Beam Angle * On request only		

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- DIFFUSER

SD · Standard Diffused

- PROFILE
  COLOUR

BLK · Black

WHT · White
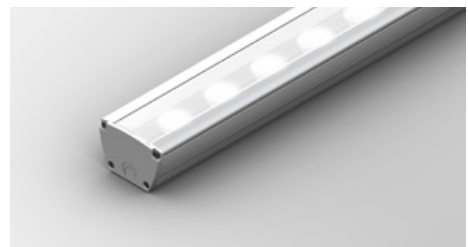
CST · Custom Colour [1]

[1] Custom colours available on request

▪ WIRING CONFIGURATION

CONNECTOR TYPE	DRAWING	MALE	FEMALE
WR5OS Wire 5 Core One Side		●	
OC6MO Outdoor Connector 6 pin Male Only		●	
OC6MF Outdoor Connector 6 pin Male + Female		●	●
OCAC3.4MF Outdoor Connector 3 pin AC, 4 pin Data, Male + Female		● ●	● ●

▪ Typical wiring length 1,000 mm with cable's outer diameter 7.5mm.

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

WIRING COLOUR CODE (DC)	
Black	+ VDC
Red	- RED
Green	- GREEN
Blue	- BLUE
White	- WHITE

▪ WIRING POSITION

WB - Wire from back
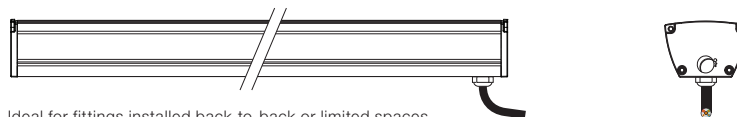
Ideal for fittings installed back-to-back or limited spaces.
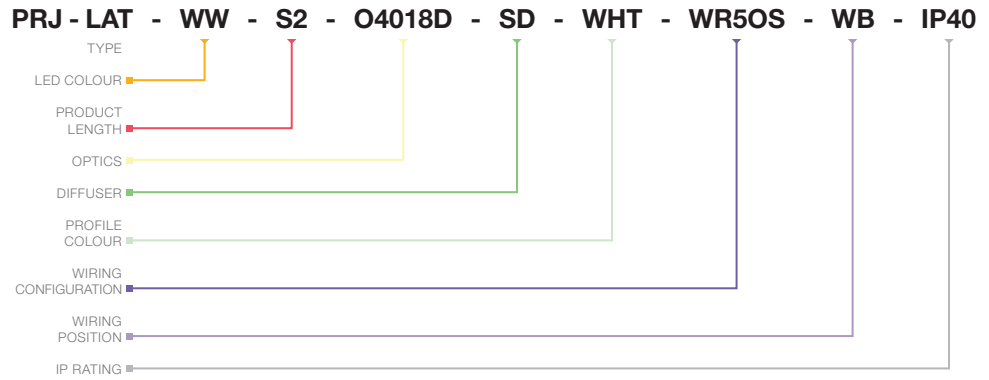
WS - Wire from Side

Ideal for fittings installed individually or vertically.

▪ IP RATING

IP40

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

▪ ORDERING EXAMPLE

PRJ - LAT - WW - S2 - O4018D - SD - WHT - WR5OS - WB - IP40

- TYPE
- LED COLOUR
- PRODUCT LENGTH
- OPTICS
- DIFFUSER
- PROFILE COLOUR
- WIRING CONFIGURATION
- WIRING POSITION
- IP RATING

▪ LED COLOUR

WW	RGB + Warm White
CW	RGB + Cool White

▪ PRODUCT LENGTH

S1	383mm
S2	716mm
S3	1,049mm
S4	1,382mm
S5	1,715mm
S6	2,048mm
S7	2,381mm
S8	2,714mm
CST6 S2	2,068mm
CST6A S2	1,222mm
CST6 S1L	897mm
CST6 S1R	897mm

▪ OPTICS

14D	14° Beam
50D	50° Beam
F10020D	Flare 100° x 20° Beam
O4018D	Oval 40° x 18° Beam
R4018D	Oval 18° x 40° Beam

▪ DIFFUSER

SD	Standard Diffused

▪ PROFILE COLOUR

BLK	Black (Standard)
WHT	White
CST	Custom Colour [1]

▪ WIRING CONFIGURATION

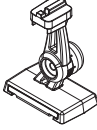|	
WR5OS	Wire 5 Core One Side
OC6MO	Outdoor Connector 6 pin Male Only
OC6MF	Outdoor Connector 6 pin Male + Female
OCAC3.4MF	Outdoor Connector 3 pin AC, 4 pin Data, Male + Female

▪ WIRING POSITION
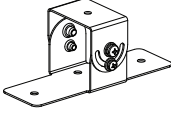
WB	Wire from Back
WS	Wire from Side

▪ IP RATING

IP40	Indoor Use

[1] Custom colours available on request

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▪ ACCESSORIES

	PRODUCT CODE	DESCRIPTION
MOUNTING BRACKET [1]		
	MBR-PRJ-FLAT-BLK	Flat Mounting Bracket - Black
	MBR-PRJ-ST25-BLK	25 Degree Rotating Mounting Bracket - Black
	MBR-PRJ-ST25-WHT	25 Degree Rotating Mounting Bracket - White
	MBR-PRJ-ST90-BLK	90 Degree Rotating Mounting Bracket - Black
	MBR-PRJ-ST90-WHT	90 Degree Rotating Mounting Bracket - White
	MBR-PRJ-ARCH-BLK	Architectural Swivel Bracket - Black
	MBR-PRJ-ARCH-WHT	Architectural Swivel Bracket - White
	MBR-PRJ-FL90-BLK	Flat 90 Degree Rotating Mounting Bracket - Black
	MBR-PRJ-FL90-WHT	Flat 90 Degree Rotating Mounting Bracket - White
	MBR-PRJ-FL90-SS	Flat 90 Degree Rotating Mounting Bracket - Stainless Steel

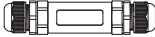[1] Recommended spacing between Mounting Brackets is maximum 500mm unless otherwise specified.

DRIVER (DC)

	PRODUCT CODE	DESCRIPTION
	DRV-RDM-P4	DMX / RDM 4 Channel LED Driver
	DRV-RDM-IP-P4	Outdoor DMX / RDM 4 Channel LED Driver

POWER SUPPLY

	PRODUCT CODE	DESCRIPTION
	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
	VLM100W-24	ERP Power Supply VLM 100W 24V

CABLE EXTENSION

	PRODUCT CODE	DESCRIPTION
	CBLEXT-PRJ-WR5-IP65-3M	3m Length, 5 Core Cable Extension with outdoor joiner
	CBLEXT-PRJ-WR5-IP65-5M	5m Length, 5 Core Cable Extension with outdoor joiner
	CBLEXT-PRJ-WR5-IP65-10M	10m Length, 5 Core Cable Extension with outdoor joiner
	CBLEXT-PRJ-WR5-IP65-20M	20m Length, 5 Core Cable Extension with outdoor joiner
	CBLEXT-PRJ-OC6F-IP65-1M	1m Length, 6 Core Leader Cable with outdoor female connector and lose wires
	CBLEXT-PRJ-OC6F-IP65-5M	5m Length, 6 Core Leader Cable with outdoor connector and lose wires
	CBLEXT-PRJ-OC6F-IP65-10M	10m Length, 6 Core Leader Cable with outdoor connector and lose wires
	CBLEXT-PRJ-OCAC3MF-4M	4m Length, 3 Core Jumper with outdoor male / female connectors
	CBLEXT-PRJ-OCAC3F-1M	1m Length, 3 Core Extension with outdoor female connector
	CBLEXT-PRJ-OCAC3F-15M	15m Length, 3 Core Extension with outdoor female connector
	CBLEXT-PRJ-OCAC4MF-4M	4m Length, 4 Core Jumper with outdoor male / female connectors
	CBLEXT-PRJ-OCAC4F-1M	1m Length, 4 Core Extension with outdoor female connector
	CBLEXT-PRJ-OCAC4F-15M	15m Length, 4 Core Extension with outdoor female connector

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