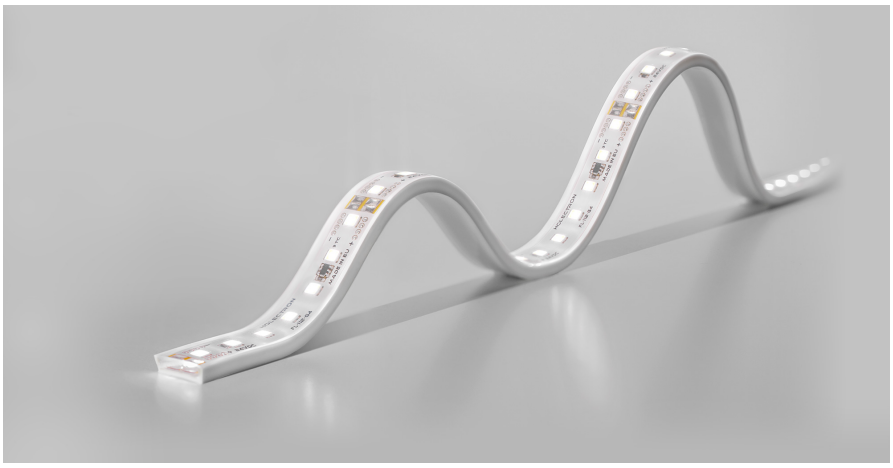
AQUA

Specification Sheet

HOLECTRON



Area: Outdoor / Indoor

Category: Flexible LED Lines

Mounting: Surface mounted

AQUA flexible waterproof LED strips are designed for long-term professional lighting applications and perfectly suit for outdoor LED linear decorative, cove lighting, curved applications, edge lighting and many more applications.

For these waterproof IP67 flexible LED strips we use the highest quality materials, NICHIA LEDs from Japan, current stabilization system inside. The housing does not attract dust or dirt, is easy to clean and is fully UV resistant, as well as salt and solvent proof.

Its small size and bend radius combined with a ruggedized design make this a reliable and versatile long-term choice for creative outdoor lighting.

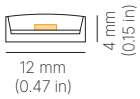
This LED strip is available with 3 Step MacAdam or Single Bin LEDs.

TECHNICAL DATA

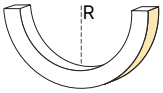
Voltage	24 / 48 V	
Light output ratio (LOR)	80%	
TC temperature	<75° C	<167° F
Operating temperature	-25°C...+50°C	-13°F...122°F
Dimmable	YES	

DIMENSIONS

FRONT VIEW

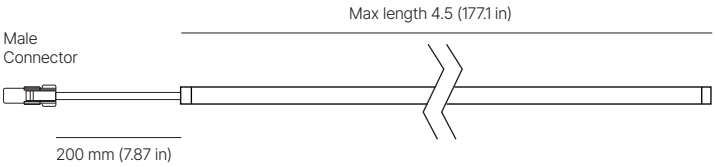


BEND TYPE: TOP

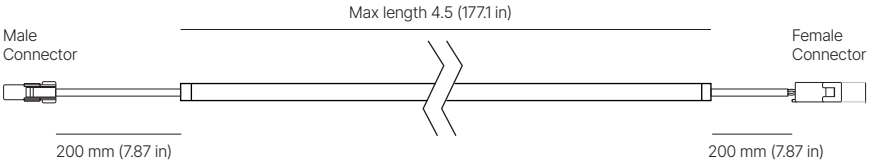


R=10 cm(3.93 in)

LUMINAIRE
One cable



FULL MODULE
Two cables



Final length of the luminaire calculated:

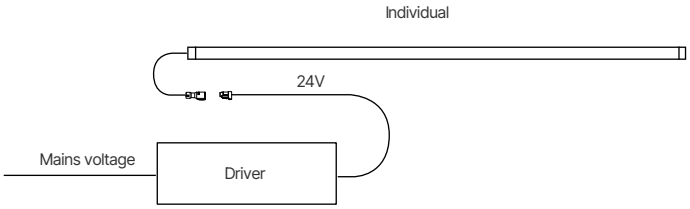
L = C x N + 20mm (0.98 in);

L = Luminaire length
C = Cutting Step
White 24V: 62.5mm (2.46 in) / 125mm (4.9 in)
White 48V: 250mm (9.8 in)
TW: 125m (4.9 in)
RGB: 125mm (4.9 in)
N = Quantity Of Segments. 2 < N < 72;

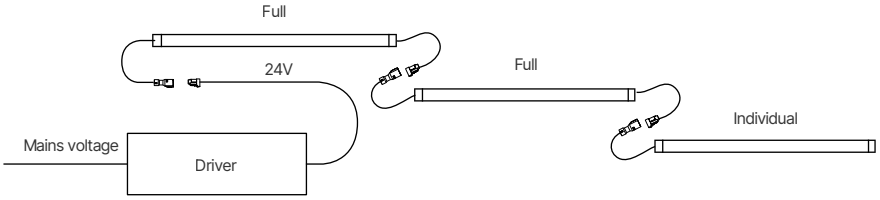
Note: Length tolerance ± 3mm/m (0.11 in)

CONNECTION TYPES

INDIVIDUAL module



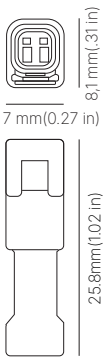
FULL module



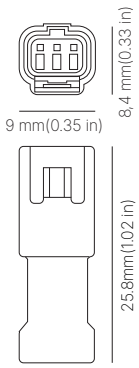
OUTDOOR CONNECTORS

J1X MALE CONNECTORS

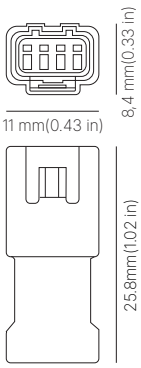
For white



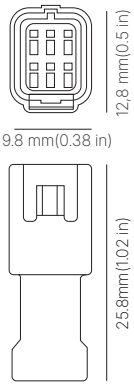
For tunable white



For RGB

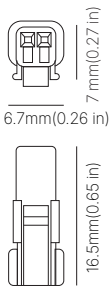


For RGBW

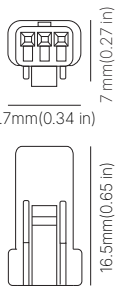


J1X FEMALE CONNECTORS

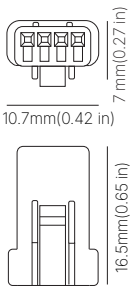
For white



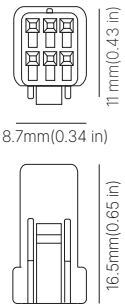
For tunable white



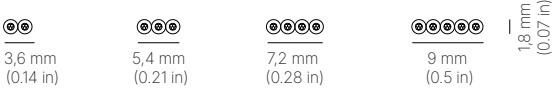
For RGB



For RGBW



WIRES



WIRE LENGTHS AVAILABLE

CODE	L200	L1000	L2000	L3000	L5000
LENGHT	150mm	1000mm	2000mm	3000mm	5000mm
	5.9in	3ft 3in	6ft 6in	9ft 10in	16ft 5in

LUMENS - AQUA

WHITE 24V

			POWER			
SPECTRUM	CRI		2.4W/m (0.73W/ft)	4.8W/m (1.5W/ft)	9.6W/m (2.9W/ft)	14.4W/m (4.38W/ft)
820/822/825/827/830/835/840/850/865	CRI 80+	lm/m (lm/ft)	197-306 (60-93)	403-606 (123-185)	806-1213 (245-369)	1219-1803 (371-549)
920/922/925/T927/T930/T935/T940/T950/T965	CRI 90+tri	lm/m (lm/ft)	170-298 (52-91)	338-591 (103-180)	676-1182 (206-360)	1000-1760 (305-536)
027/030/035/040/050	CRI 95+	lm/m (lm/ft)	197-223 (60-68)	391-442 (119-135)	782-885 (238-269)	1160-1316 (353-401)
EFFICACY (lm/W)			104	105	105	105

WHITE 48V

			POWER	
SPECTRUM	CRI		4.8W/m (1.5W/ft)	9.6W/m (2.9W/ft)
820/822/825/827/830/835/840/850/865	CRI 80+	lm/m (lm/ft)	394-612 (120-186)	806-1213 (245-369)
920/922/925/T927/T930/T935/T940/T950/T965	CRI 90+tri	lm/m (lm/ft)	342-596 (104-181)	676-1182 (206-360)
027/030/035/040/050	CRI 95+	lm/m (lm/ft)	395-446 (120-136)	782-885 (238-269)
EFFICACY (lm/W)			105	105

TUNABLE

			POWER
SPECTRUM	CRI		9.6W/m (2.9W/ft)
Any combination within this combination 820-865	CRI 80+	lm/m (lm/ft)	812-1023(257-312)
Any combination within this range 920-T965	CRI 90+tri	lm/m (lm/ft)	658-1064 (200-324)
Any combination within this range 020-065	CRI 95+	lm/m (lm/ft)	658-1064 (200-324)
EFFICACY (lm/W)			111

RGB

			POWER		
	COLORS		7.2W/m (2.2W/ft)	11.52W/m (3.5W/ft)	14.4W/m (4.4W/ft)
	All colors	lm/m (lm/ft)	254(77)	285 (117)	483 (147)
EFFICACY (lm/W)			35	34	34

TECHNICAL SPECIFICATIONS

SERTIFICATIONS

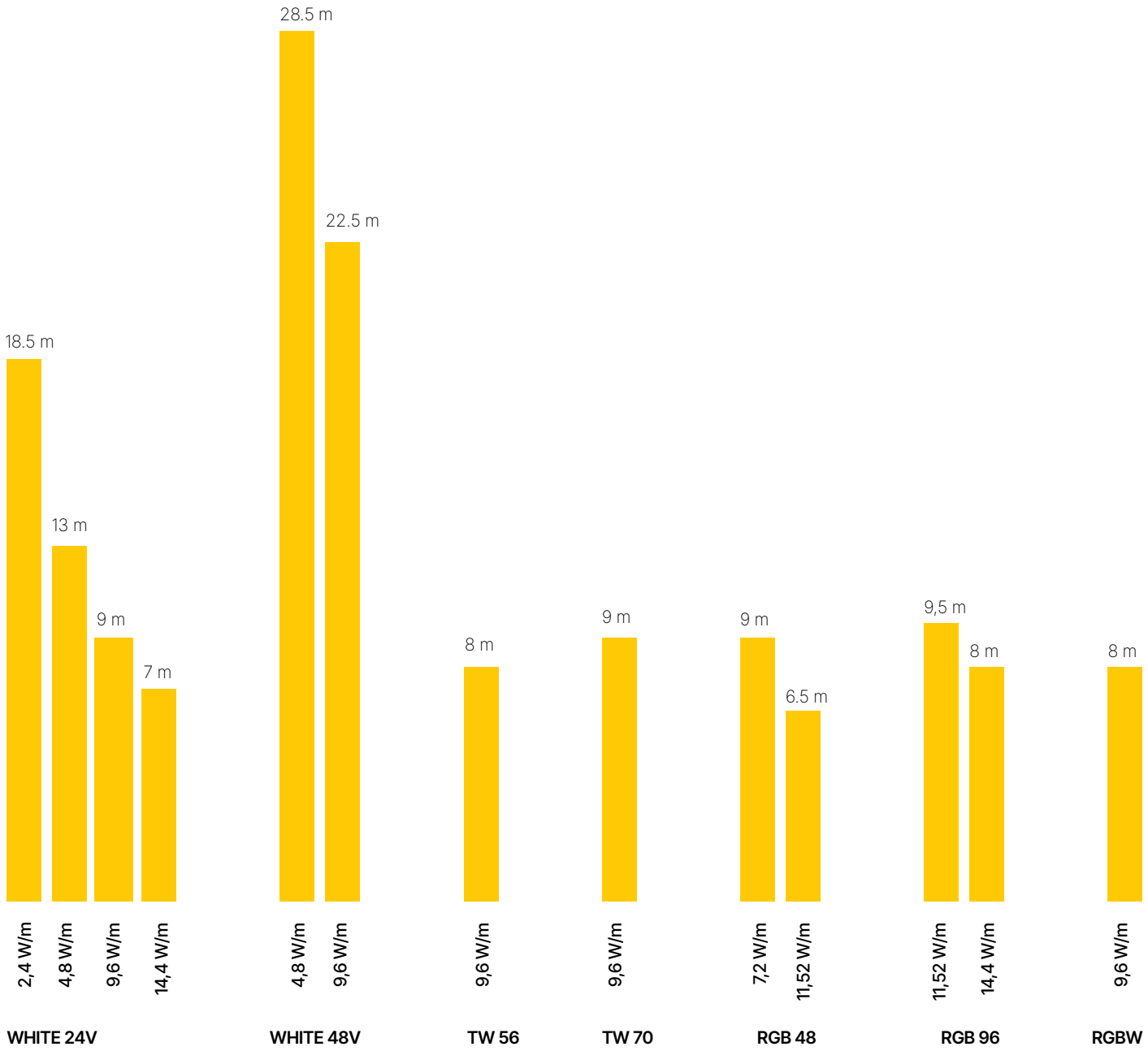
- UL approved
- Made in Europe
- L90B10 60.000 hours
- CE compliant
- 5- year warranty
- NICHIA LEDs
- RoHS COMPLIANT

KEY BENEFITS

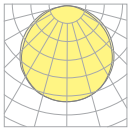
- IP67
- Stabilized current design
- Wide 2200K-6500K white color range
- Thermal resistance: -25° – +50°
- Fixed output, DALI or 0-10V dimmable
- 48V DC & 24V DC voltage input
- 3-step MacAdam LEDs
- Beam angle: 112° Opal
- Max length 4.5m (177.1 in)
- CRI 80+ CRI 90+tri CRI 95+
- External driver
- Continuous line light effect without dark spots
- Customization for your project
- Reverse voltage protection
- UV, salt & solvent resistant

MAX RUN

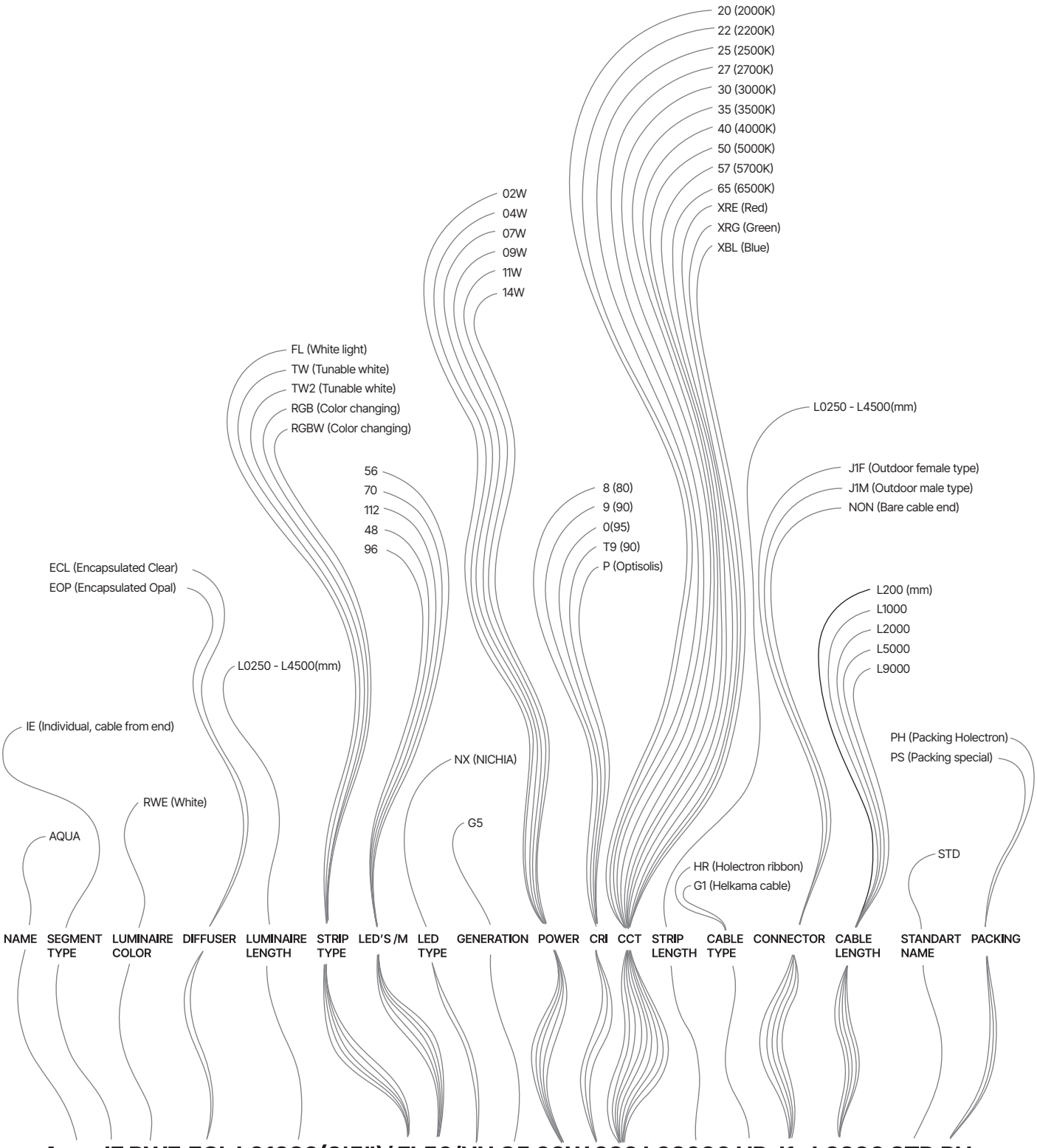
Possible max length connected to driver from single side.



OPTICS



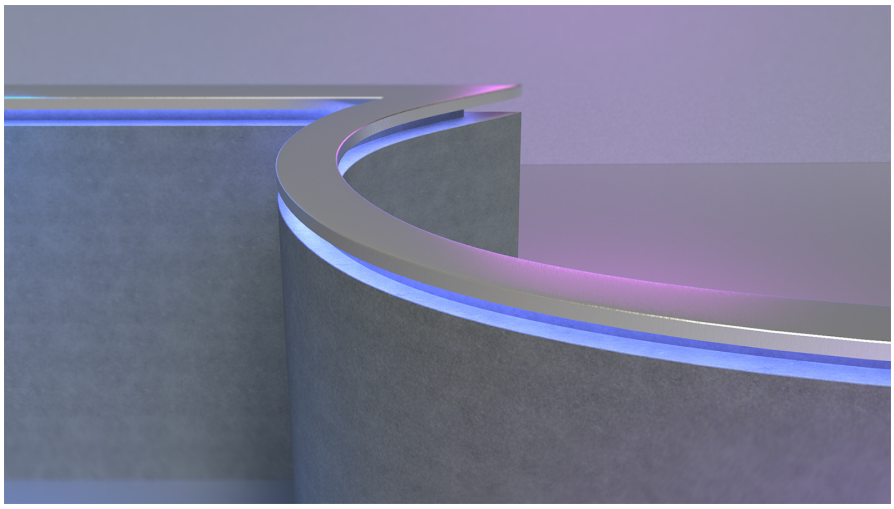
ORDER CODE

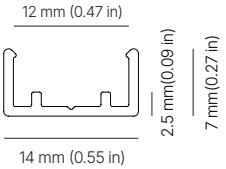


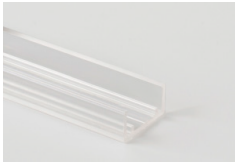
Aqua IE RWE.ECL L01020(3'5")/ FL56/NN G5 09W 920 L02600 HR J1x L0200 STD PH

ORDER CODE EXAMPLE

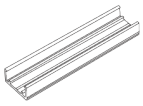
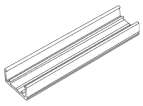
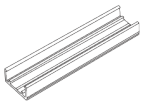
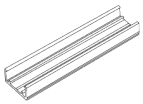
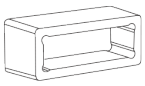
APPLICATIONS







ACCESSORIES

CODE	DESCRIPTION
OFL.Q01x.T.3.P00001 	Aqua Mounting profile L1000
OFL.Q01x.T.3.P00001 	Aqua Mounting profile L2000
OFL.Q01x.T.3.P00001 	Aqua Mounting profile L3000
OFL.Q01x.T.3.P00001 	Aqua Mounting profile L50
OFL.Q01x.T.1.P00005 	Aqua Endcaps Clear 10pcs
GOT.00011	Silicone for sealing Endcaps 100ml

POWER SUPPLY - INDOOR

Item No:	DRI.V24.ILS.FO.SE.00001
Description:	Power supply 100W 120 - 227 VAC 5 - year warranty
Color:	Static White
Voltage:	24V DC
Control:	FO
Certification:	CE, UL listed

POWER SUPPLY - OUTDOOR

Item No:	DRI.V24.OCO.FO.TR.00030
Description:	Power supply 96W 24V 90 - 305 VAC 5 - year warranty
Color:	Static White
Voltage:	24V DC
Control:	FO
Certification:	CE, UL listed

MAX PRODUCT LENGTH

WHITE 24V

0.5mm2 (AWG 20)	4.8W/m (1.5W/ft)	9.6W/m (2.9W/ft)	14.4W/m (4.4W/ft)	19.2W/m (5.9W/ft)
Max cable length between luminaire and driver	Product max run			
1 m	12.5 m	8 m	6 m	4.5 m
2 m	12 m	7.5 m	6 m	4 m
3 m	11.5 m	7.5 m	5.5 m	3.5 m
5 m	11 m	7 m	5 m	3 m
10 m	8.5 m	5 m	3 m	0 m
1.5mm2 (AWG 16)				
Max cable length between luminaire and driver	Product max run			
1 m	12.5 m	8.5 m	4.5 m	4.5 m
2 m	12.5 m	8.5 m	4.5 m	4.5 m
3 m	12.5 m	8 m	4.5 m	4.5 m
5 m	12 m	8 m	4.5 m	4 m
10 m	11.5 m	7.5 m	4 m	3.5 m

WHITE 48V

0.5mm2 (AWG 20)	4.8W/m (1.5W/ft)	9.6W/m (2.9W/ft)	14.4W/m (4.4W/ft)	19.2W/m (5.9W/ft)
1 m	28 m	19.5 m	15 m	13 m
2 m	27.5 m	19 m	14.5 m	12.5 m
3 m	27 m	18.5 m	14 m	12 m
5 m	26.5 m	18 m	13 m	11 m
10 m	25 m	16.5 m	11.5 m	9 m
1.5mm2 (AWG 16)				
1 m	28.5 m	20 m	15.5 m	13.5 m
2 m	28 m	19.5 m	15 m	13 m
3 m	27.5 m	19.5 m	15 m	13 m
5 m	27.5 m	19 m	14.5 m	12.5 m
10 m	27 m	18.5 m	14 m	12 m

24V TW2 112

0.5mm2 (AWG 20)	9.6W/m (2.9W/ft)	19.2W/m (5.9W/ft)
1 m	8 m	5 m
2 m	7.5 m	4.5 m
3 m	7.5 m	4.5 m
5 m	7 m	4 m
10 m	5.5 m	2 m
1.5mm2 (AWG 16)		
1 m	8 m	5 m
2 m	8 m	5 m
3 m	8 m	5 m
5 m	8 m	5 m
10 m	7.5 m	4.5 m

24V TW 56 N5

0.5mm2 (AWG 20)	9.6W/m (2.9W/ft)	19.2W/m (5.9W/ft)	33.6W/m (10.2W/ft)
Max cable length between luminaire and driver	Product max run		
1 m	7.5 m	4.5 m	2.5 m
2 m	7 m	4 m	2.5 m
3 m	7 m	4 m	2.5 m
5 m	6.5 m	4 m	2.5 m
10 m	5.5 m	3.5 m	2 m
1.5mm2 (AWG 16)			
Max cable length between luminaire and driver	Product max run		
1 m	7.5 m	4.5 m	2.5 m
2 m	7.5 m	4 m	2.5 m
3 m	7.5 m	4 m	2.5 m
5 m	7.5 m	4 m	2.5 m
10 m	7 m	4 m	2.5 m

MAX PRODUCT LENGTH

24V TW 70 N5

0.5mm2 (AWG 20)	9.6W/m (2.9W/ft)	19.2W/m (5.9W/ft)	33.6W/m (10.2W/ft)	45.6W/m (14.6W/ft)
1 m	7.5 m	4.5 m	2.5 m	1.5 m
2 m	7.5 m	4 m	2.5 m	1.5 m
3 m	7.5 m	4 m	2.5 m	1.5 m
5 m	7 m	4 m	2 m	1.5 m
10 m	6.5 m	3.5 m	1.5 m	1 m
1.5mm2 (AWG 16)				
1 m	7.5 m	4.5 m	2.5 m	1.5 m
2 m	7.5 m	4 m	2.5 m	1.5 m
3 m	7.5 m	4 m	2.5 m	1.5 m
5 m	7.5 m	4 m	2.5 m	1.5 m
10 m	7.5 m	4 m	2 m	1.5 m

24V TW2 112

0.5mm2 (AWG 20)	9.6W/m (2.9W/ft)	19.2W/m (5.9W/ft)	33.6W/m (10.2W/ft)	48W/m (14.6W/ft)
1 m	8 m	8 m	3 m	2.5 m
2 m	7.5 m	7.5 m	3 m	2.5 m
3 m	7.5 m	7.5 m	3 m	2 m
5 m	7 m	7 m	2.5 m	2 m
10 m	5.5 m	5.5 m	2 m	1.5 m
1.5mm2 (AWG 16)				
1 m	8 m	5 m	3 m	2.5 m
2 m	8 m	5 m	3 m	2.5 m
3 m	8 m	5 m	3 m	2.5 m
5 m	8 m	5 m	3 m	2.5 m
10 m	7.5 m	4.5 m	2.5 m	2 m

24V 48 RGB

0.5mm2 (AWG 20)	7.2W/m (2.2W/ft)	11.5W/m (1.5W/ft)
1 m	8.5 m	5.5 m
2 m	8 m	5.5 m
3 m	8 m	5 m
5 m	7.5 m	4.5 m
10 m	7 m	3.5 m
1.5mm2 (AWG 16)		
1 m	8.5 m	5.5 m
2 m	8.5 m	5.5 m
3 m	8.5 m	5.5 m
5 m	8.5 m	5.5 m
10 m	8 m	5 m

24V 96 RGB

0.5mm2 (AWG 20)	11.5W/m (1.5W/ft)	14.4W/m (4.4W/ft)	23W/m (4.4W/ft)
1 m	9 m	7.5 m	4.5 m
2 m	8.5 m	7 m	4 m
3 m	8.5 m	7 m	3.5 m
5 m	8 m	6 m	2.5 m
10 m	5.5 m	3.5 m	0
1.5mm2 (AWG 16)			
1 m	9 m	7.5 m	4.5 m
2 m	9 m	7.5 m	4.5 m
3 m	9 m	7.5 m	4.5 m
5 m	8.5 m	7 m	4 m
10 m	8 m	6.5 m	3.5 m