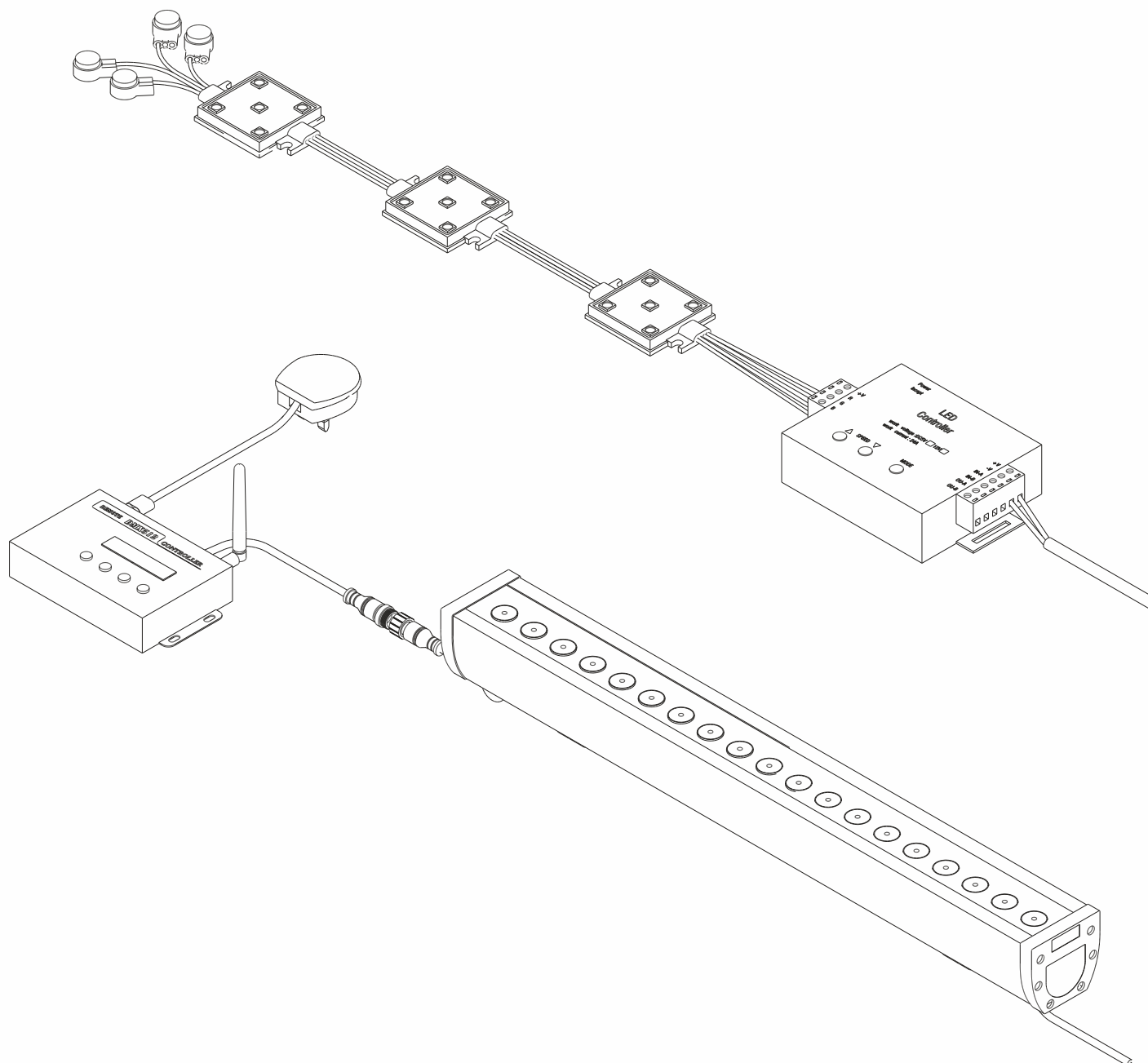


Self Build Sign System



Technical Specification & Price list

COMPONENT SIGNAGE SYSTEM

www.ashbytrade.net
+44 (0) 118 981 5343

LED MODULES & ARCHITECTURAL ILLUMINATION

A light-emitting diode (LED) is a two-lead semi conducting light source. It has many advantages over incandescent light sources including (but not limited to):

- **Efficiency:** LED's emit more lumens per watt than incandescent light bulbs making them more eco-friendly. More importantly however they reduce energy consumption by 80% when compared to fluorescent illumination; making them a cheaper lighting alternative.
- **Lifetime:** LEDs have an estimated useful lifespan of between 35,000 and 50,000 hours, significantly longer than a traditional incandescent light source.
- **Colour:** RGB LED's can emit light of an intended colour without using any colour filters.
- **Shock Resistance:** Unlike fluorescent and incandescent bulbs (which are fragile), LED's are solid-state components and are difficult to damage.
- **Water Resistance:** Certain LED's have been designed to resist water (available in varying IP ratings), thus enhancing their usefulness.

Our LED range, across both modules and architectural lighting, has been tailored to compliment the Ashby product range. Each module or unit has been specifically selected to enhance the aesthetics, value and efficiency of our illuminated signage.

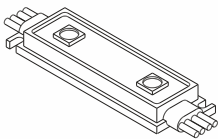
All components are kept in stock and are available on a same working day despatch.

As an alternative to a Self Build Sign System, these units can be supplied fully fitted to Ashby illuminated systems.

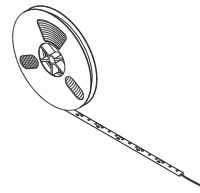
Please note that all prices are supplied in component form only, carriage charges and VAT have not been included.

Ashby Trade Sign Supplies is a manufacturer, designer and distributor of signage systems. Open longer for our customer's convenience, our products can be purchased either as components, partly finished or fully finished systems.

SMD LED MODULES



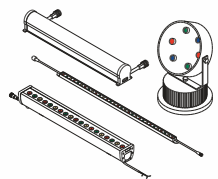
"SMD LED" is an abbreviation of Surface-Mounted-Device Light-Emitting Diode. An SMD LED Module is a type of LED module that uses Surface-mount technology (SMT) to mount LED chips onto printed circuit boards. They are available in three different sizes (small, medium and large) with either white or RGB diodes.



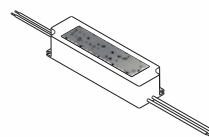
LED STRIP

An LED Strip Light (also known as an LED tape or ribbon light) is a flexible circuit board populated by surface mounted light-emitting diodes (SMD LED's). LED strip comes with a double sided adhesive backing and is available in 'cool white' from stock in 12v, or 24v (for higher luminosity) variants. LED strip is supplied complete with non-yellowing, scratch resistant UV stable resin with a certified IP65 rating.

ARCHITECTURAL ILLUMINATION



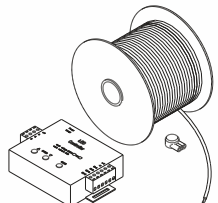
There are varying facets to Architectural Illumination and ours is best suited to promotional illumination. It's function is to attract the attention of a viewer and encourage further engagement with the object or item.



LED POWER SUPPLIES

A comprehensive list of power supplies, all rated to IP62 to IP67, suitable for use in conjunction with all LED Modules, ribbon or architectural illumination products.

FIXINGS



A comprehensive list of all non-specific system components that are used throughout the range including; RGB and DMX controllers, 2-core and 3-core sheathed cables and all other associated LED and fluorescent illumination connectors.

All Items sold are subject to the Standard Trading Terms for **Ashby Trade Sign Supplies Ltd.**
Copy on request or viewable at www.ashbytrade.net

Prices are correct at the time of printing and may be subject to change.

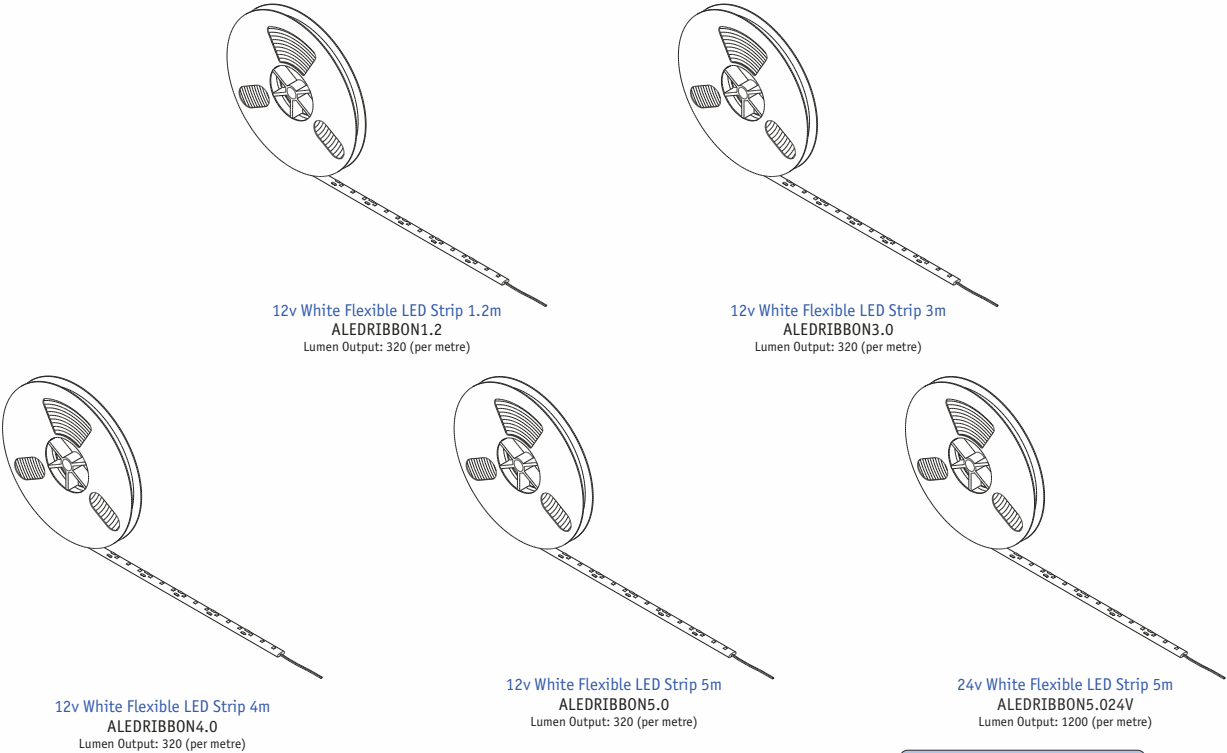
COMPONENT SIGNAGE SYSTEM

www.ashbytrade.net
+44 (0) 118 981 5343

All our LED Products are 12v
Make sure that you purchase
a Power Supply

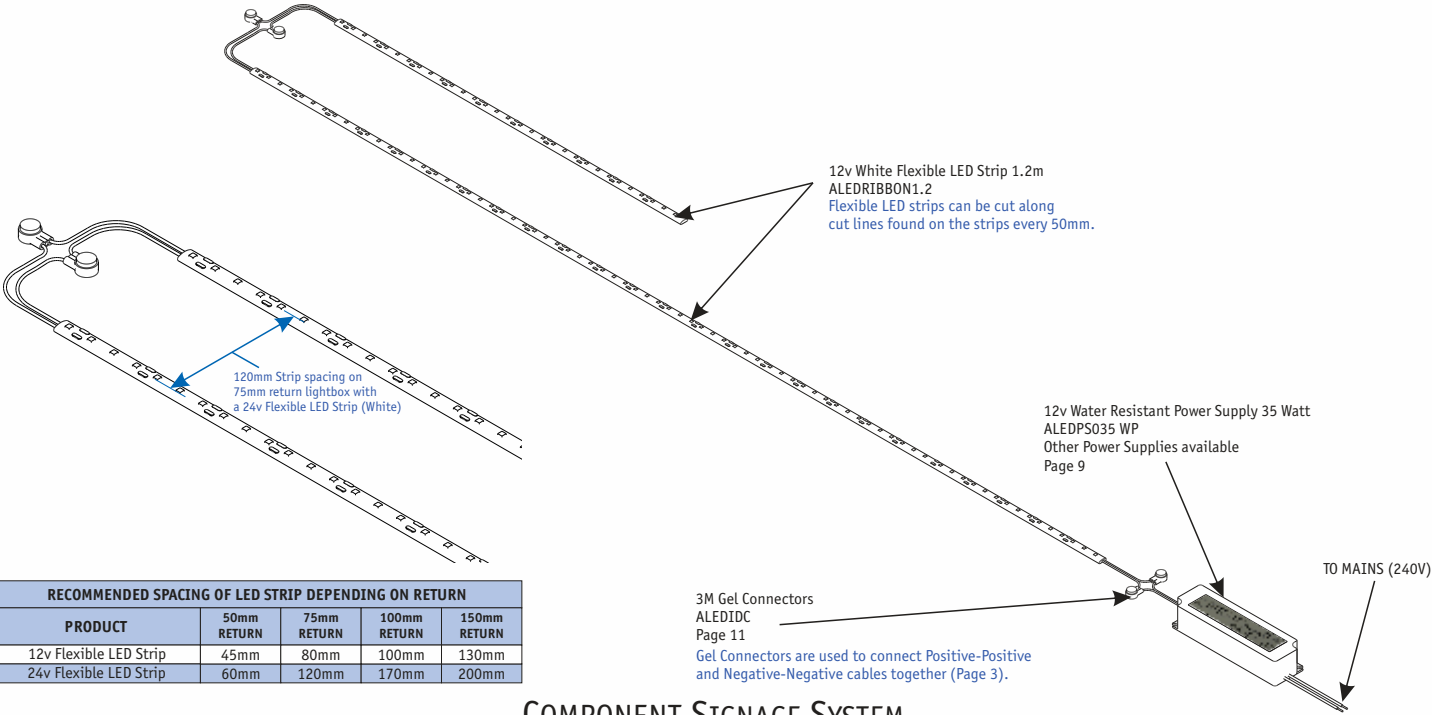






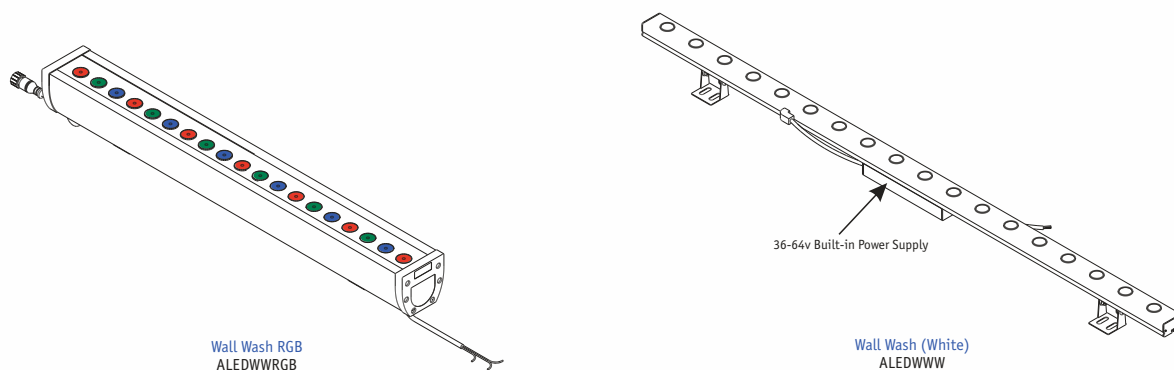
PRODUCT	LENGTH	COLOUR	CODE	WATTS (per strip)	QTY	£	DISCOUNT RATES (PER ITEM)			
							QTY	£	QTY	£
12v Flexible LED Strip 1.2m Dimensions: 10mm x 2.5mm	1200mm	White	ALEDRIBBON1.2	5.76w	1	7.69	41+	7.18	82+	6.48
12v Flexible LED Strip 3m Dimensions: 10mm x 2.5mm	3000mm	White	ALEDRIBBON3.0	14.4w	1	19.21	17+	17.93	34+	16.20
12v Flexible LED Strip 4m Dimensions: 10mm x 2.5mm	4000mm	White	ALEDRIBBON4.0	19.2w	1	25.60	13+	23.90	26+	21.59
12v Flexible LED Strip 5m Dimensions: 10mm x 2.5mm	5000mm	White	ALEDRIBBON5.0	24w	1	32.00	10+	29.88	20+	26.99
24v Flexible LED Strip 5m Dimensions: 10mm x 2.5mm	5000mm	White	ALEDRIBBON5.024V	72w	1	52.94	10+	49.43	20+	44.65

Make sure you purchase the correct power supply for your LED product.

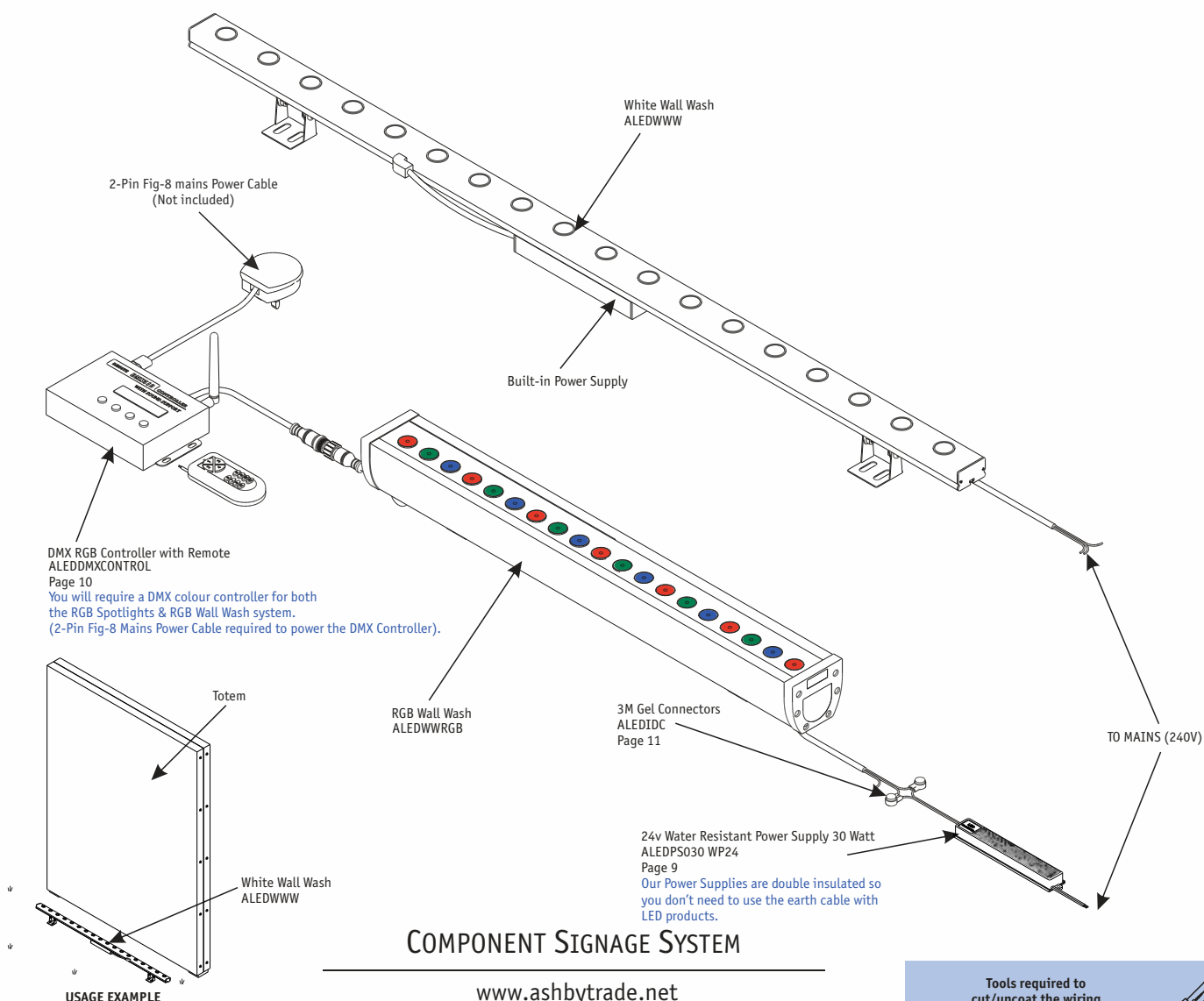


RECOMMENDED SPACING OF LED STRIP DEPENDING ON RETURN				
PRODUCT	50mm RETURN	75mm RETURN	100mm RETURN	150mm RETURN
12v Flexible LED Strip	45mm	80mm	100mm	130mm
24v Flexible LED Strip	60mm	120mm	170mm	200mm

COMPONENT SIGNAGE SYSTEM



PRODUCT	COLOUR	DIODES (per Module)	CODE	QTY	£	DISCOUNT RATES (PER ITEM)	
						QTY	£
Wall Wash (RGB) Dimensions: 625mm x 70mm x 70mm	RGB	18	ALEDWWRGB	1	80.00	5+	58.62
Wall Wash (White) Dimensions: 1000mm x 30mm x 25mm	White	18	ALEDWW	1	40.00	5+	36.47

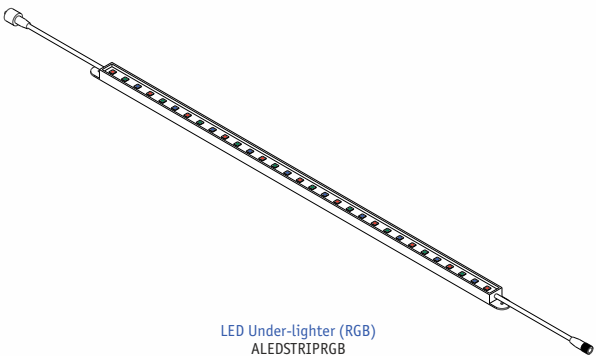


COMPONENT SIGNAGE SYSTEM

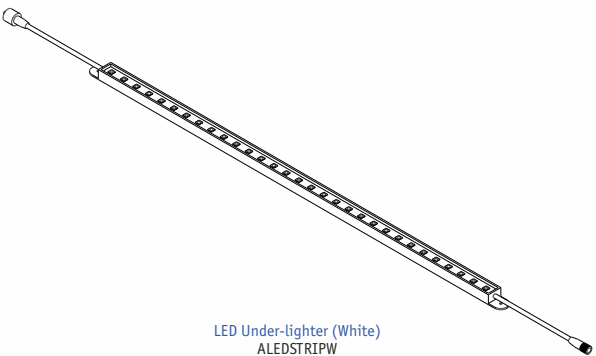
www.ashbytrade.net
+44 (0) 118 981 5343

Tools required to
cut/uncoat the wiring
and connect to a Power Supply



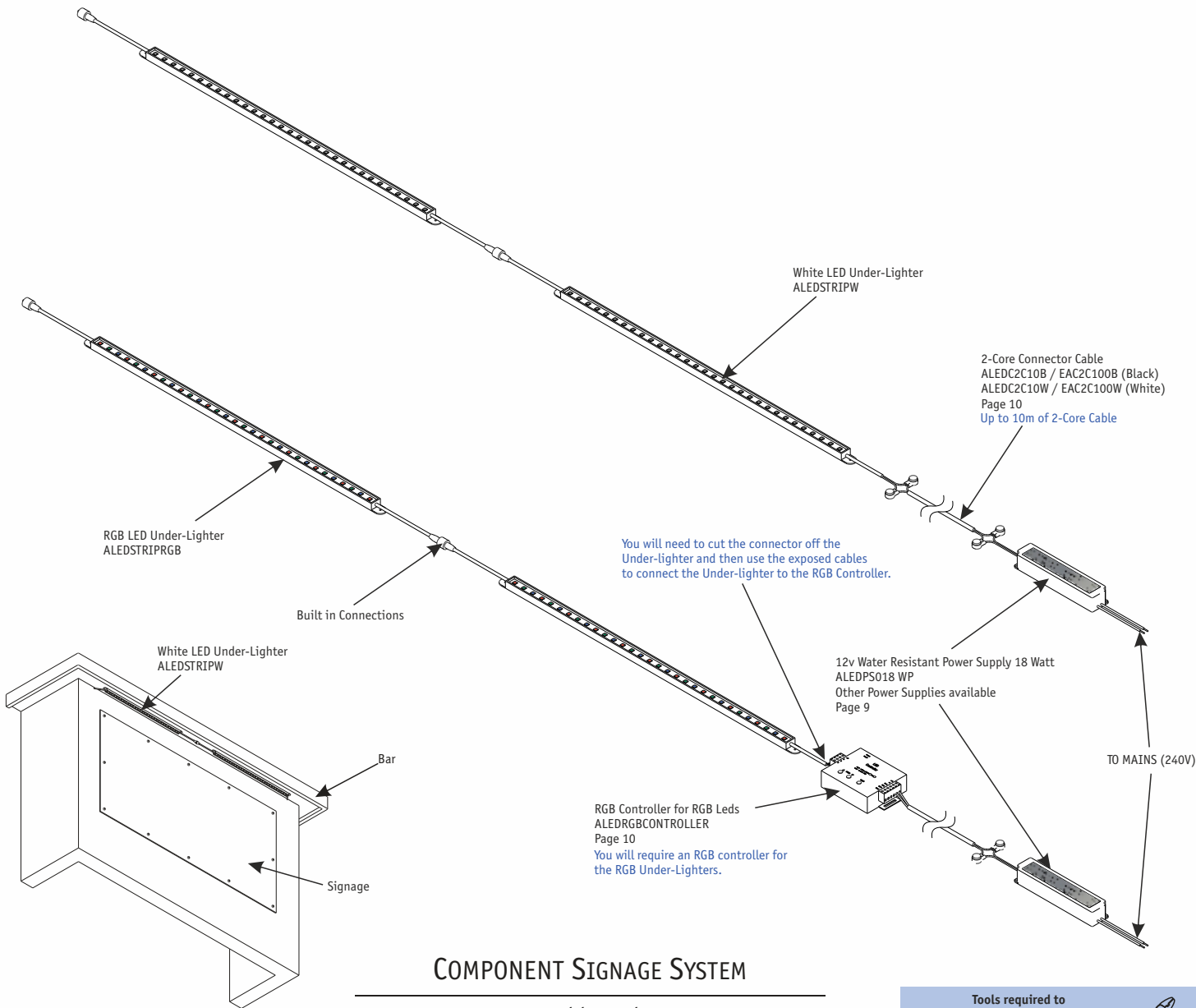


LED Under-lighter (RGB)
ALEDSTRIPRGB



LED Under-lighter (White)
ALEDSTRIPW

PRODUCT	COLOUR	CODE	DIODES (per Module)	WATTS (per Module)	QTY	£	DISCOUNT RATES (PER ITEM)	
							QTY	£
Led Under-Lighter (RGB) Dimensions: 500mm x 16mm x 9mm	RGB	ALEDSTRIPRGB	30	7.20w	1	7.50	10+	5.47
Led Under-Lighter (White) Dimensions: 500mm x 16mm x 9mm	White	ALEDSTRIPW	30	7.20w	1	7.50	10+	5.47



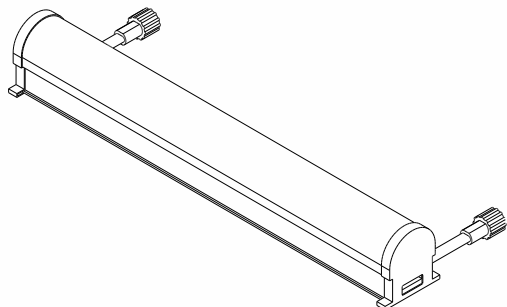
USAGE EXAMPLE

COMPONENT SIGNAGE SYSTEM

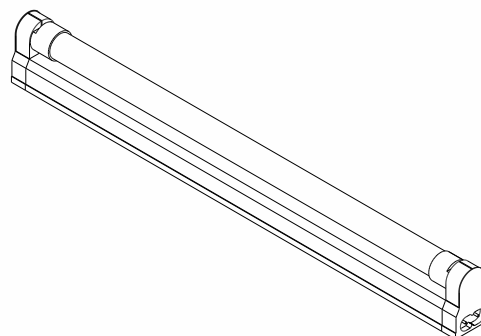
www.ashbytrade.net
+44 (0) 118 981 5343

Tools required to
cut/uncoat the wiring
and connect to a RGB controller
or a Power Supply



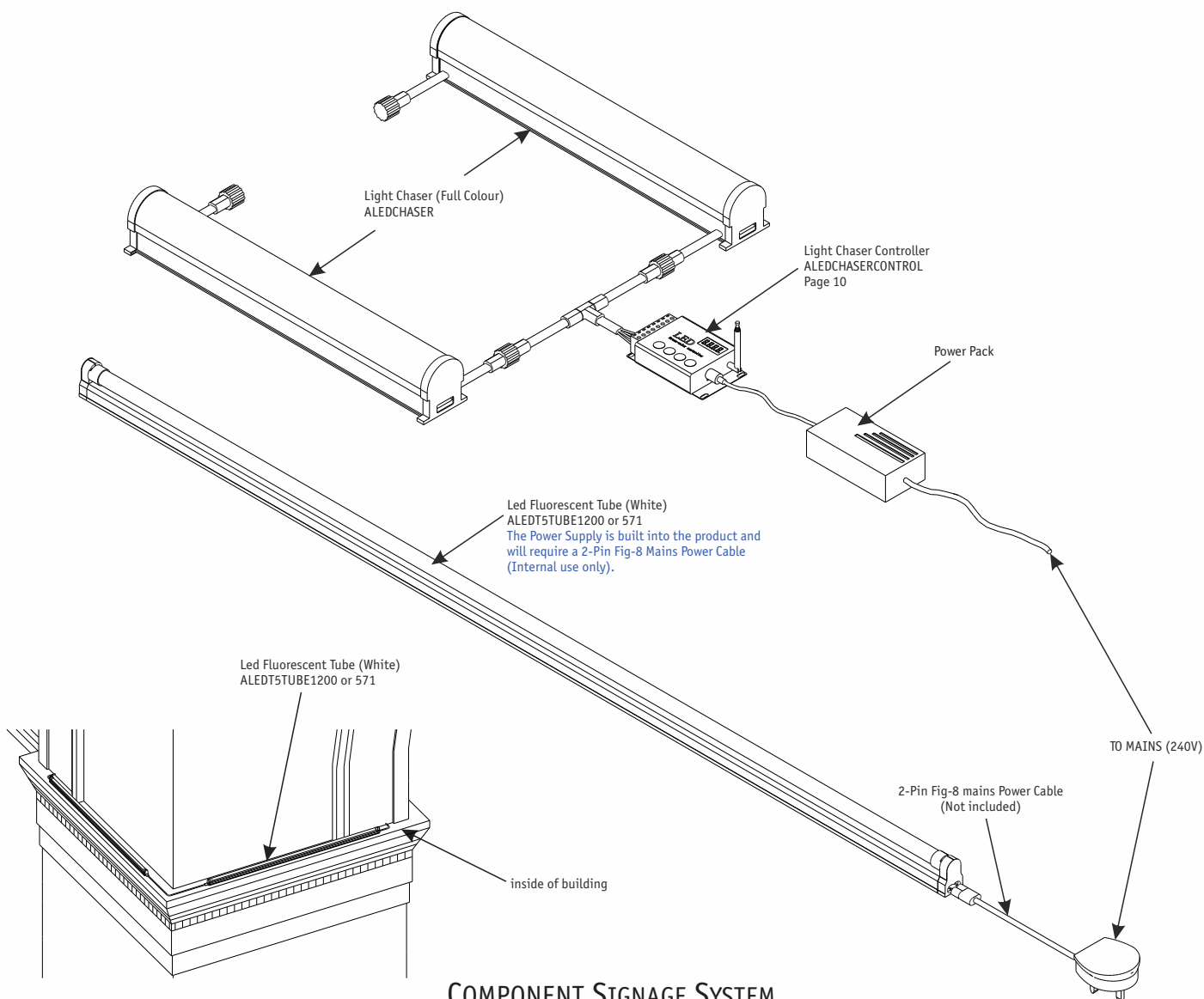


Light Chaser (Full Colour)
ALEDCHASER
Requires DMX Controller (Page 10)



LED Fluorescent Tube (White)
ALEDT5TUBE1200 or 571
Suitable for Troughlights & Lightboxes

PRODUCT	COLOUR	CODE	QTY	£	DISCOUNT RATES (PER ITEM)	
					QTY	£
Light Chaser (Full Colour) Dimensions: 1000mm x 52mm x 67mm	Full Colour	ALEDCHASER	1	22.00	10+	20.01
Large LED Fluorescent Tube (white) Dimensions: 1170mm x 22mm x 38mm	White	ALEDT5TUBE1200	1	20.00	10+	17.98
Small LED Fluorescent Tube (white) Dimensions: 571mm x 22mm x 38mm	White	ALEDT5TUBE571	1	15.00	10+	13.94



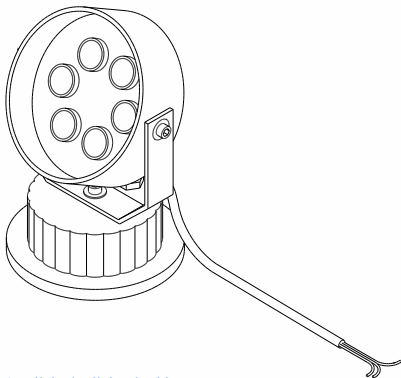
COMPONENT SIGNAGE SYSTEM

USAGE EXAMPLE

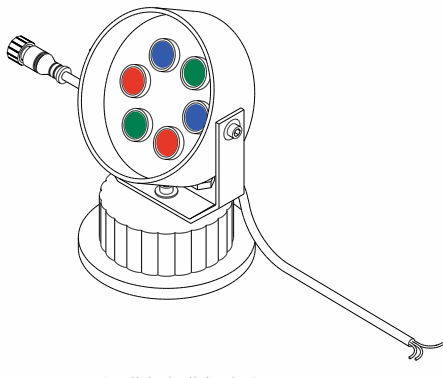
www.ashbytrade.net
+44 (0) 118 981 5343

Tools required to
cut/uncoat the wiring
and connect to a RGB Controller
or a Power Supply



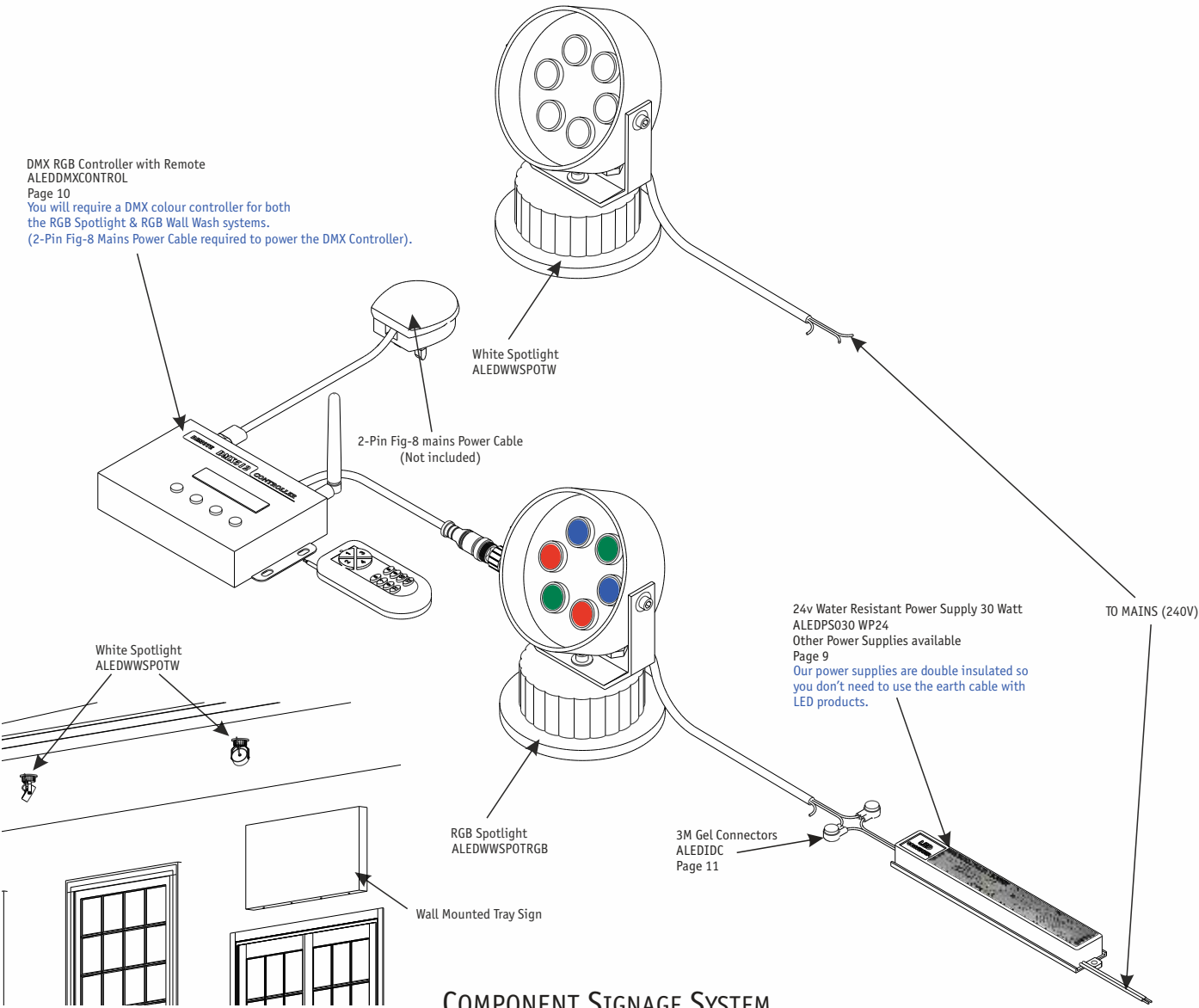


Spotlight (Uplighter) White
ALEDWWSPOTW



Spotlight (Uplighter) RGB
ALEDWWSPOTRGB

PRODUCT	COLOUR	CODE	WATTS (PER SPOTLIGHT)	QTY	£	DISCOUNT RATES (PER ITEM)	
						QTY	£
Spotlight (White) Dimensions: 120mm x 120mm x 200mm	WHITE	ALEDWWSPOTW	18w	1	25.00	5+	22.58
Spotlight (RGB) Dimensions: 120mm x 120mm x 200mm	RGB	ALEDWWSPOTRGB	18w	1	40.00	5+	34.89



DMX RGB Controller with Remote
ALEDDMXCONTROL
Page 10
You will require a DMX colour controller for both
the RGB Spotlight & RGB Wall Wash systems.
(2-Pin Fig-8 Mains Power Cable required to power the DMX Controller).

White Spotlight
ALEDWWSPOTW

2-Pin Fig-8 mains Power Cable
(Not included)

White Spotlight
ALEDWWSPOTW

RGB Spotlight
ALEDWWSPOTRGB

Wall Mounted Tray Sign

24v Water Resistant Power Supply 30 Watt
ALEDPS030 WP24
Other Power Supplies available
Page 9
Our power supplies are double insulated so
you don't need to use the earth cable with
LED products.

3M Gel Connectors
ALEIDIC
Page 11

TO MAINS (240V)

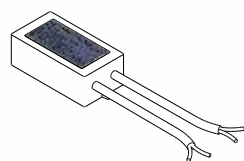
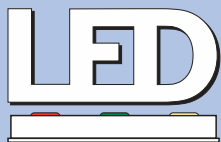
COMPONENT SIGNAGE SYSTEM

USAGE EXAMPLE

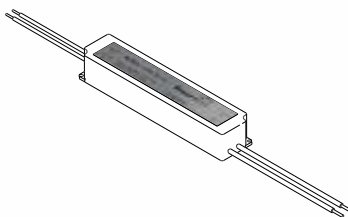
www.ashbytrade.net
+44 (0) 118 981 5343

Tools required to
cut/uncoat the Wiring
and connect to a Power Supply

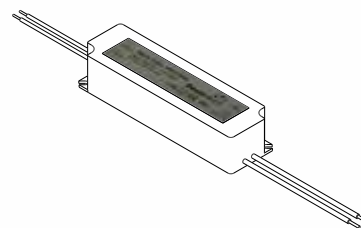




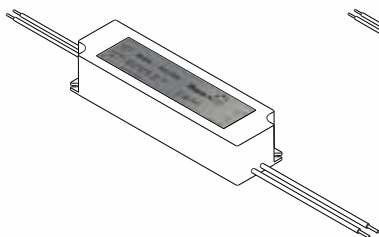
12v Water Resistant Power Supply 10 Watt
ALEDPS010 WP



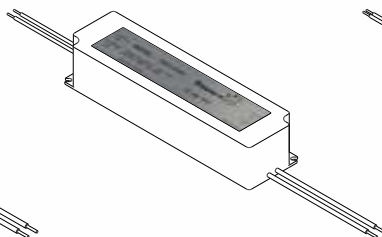
12v Water Resistant Power Supply 18 Watt
ALEDPS018 WP



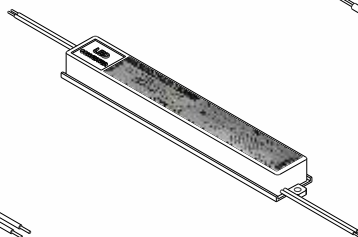
12v Water Resistant Power Supply 35 Watt
ALEDPS035 WP



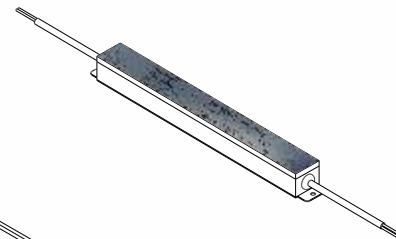
12v Water Resistant Power Supply 60 Watt
ALEDPS060 WP



12v Water Resistant Power Supply 100 Watt
ALEDPS100 WP



24v Water Resistant Power Supply 30 Watt
ALEDPS030 WP24



24v Water Resistant Power Supply 60 Watt
ALEDPS060 WP24

PRODUCT	CODE	IP RATING	WATTS	QTY	£	DISCOUNT RATES (PER ITEM)			
						QTY	£	QTY	£
12v Water Resistant Power Supply 10 Watt Dimensions: 75mm x 35mm x 23mm	ALEDPS010 WP	IP65	10w	1	12.08	10+	11.04	20+	10.01
12v Water Resistant Power Supply 18 Watt Dimensions: 140mm x 30mm x 22mm	ALEDPS018 WP	IP67	18w	1	8.51	10+	7.78	20+	7.05
12v Water Resistant Power Supply 35 Watt Dimensions: 148mm x 40mm x 30mm	ALEDPS035 WP	IP67	35w	1	21.37	10+	19.54	20+	17.70
12v Water Resistant Power Supply 60 Watt Dimensions: 163mm x 42mm x 32mm	ALEDPS060 WP	IP67	60w	1	25.34	10+	23.17	20+	21.00
12v Water Resistant Power Supply 100 Watt Dimensions: 190mm x 52mm x 37mm	ALEDPS100 WP	IP67	100w	1	47.50	10+	43.42	20+	39.35
24v Water Resistant Power Supply 30 Watt Dimensions: 194mm x 28mm x 19mm	ALEDPS030 WP24	IP62	30w	1	18.55	10+	16.96	20+	15.37
24v Water Resistant Power Supply 60 Watt Dimensions: 285mm x 30mm x 28mm	ALEDPS060 WP24	IP67	60w	1	27.06	10+	24.74	20+	22.42
Note: Please see page 3 for an example of how to connect your power supply & which power supply you may require!									

Make sure you purchase the correct power supply for your LED product.

IP RATING CHART

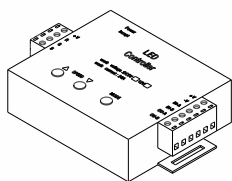
Ingress Protection Rating

SAMPLE IP RATING: **SOLID** **6** **LIQUID** **7**

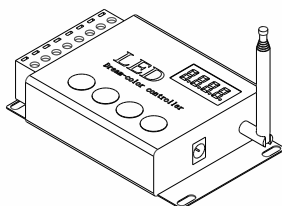
FIRST DIGIT: SOLIDS		
LEVEL	OBJECT SIZE PROTECTED AGAINST	EFFECTIVE AGAINST
X	Protection Unspecified (Untested)	Protection Unspecified (Untested)
0	Not Protected	No protection against contact and ingress of objects.
1	>50mm	Any large surface of the body, such as the back of the hand, but no protection against deliberate contact with a body part.
2	>12.5mm	Fingers or similar objects.
3	>2.5mm	Tools, thick wires, etc.
4	>1mm	Most wires, screws, etc.
5	Dust Protected	Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment, complete protection against contact.
6	Dust Tight	No ingress of dust; complete protection against contact.
The first digit indicates the level of protection that the enclosure provides against access to hazardous parts (e.g. electrical conductors, moving parts) and the ingress of solid foreign objects.		

SECOND DIGIT: LIQUIDS		
LEVEL	OBJECT SIZE PROTECTED AGAINST	EFFECTIVE AGAINST
X	Protection Unspecified (Untested)	Protection Unspecified (Untested)
0	Not Protected	Not protected
1	Dripping water	Dripping water (vertical falling drops) shall have no effect.
2	Dripping water when tilted up to 15°	Vertical dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15° from its normal position.
3	Spraying water	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect.
4	Splashing water	Water splashing against the enclosure from any direction shall have no harmful effect.
5	Water jets	Water projected by a nozzle (6.3mm) against enclosure from any direction shall have no harmful effects.
6	Powerful water jets	Water projected in powerful jets (12.5mm nozzle) against the enclosure from any direction shall have no harmful effects.
7	Immersion up to 1m	Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1m of submersion).
8	Immersion beyond 1m	The equipment is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer. Normally, this will mean that the equipment is hermetically sealed. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects.
The second digit indicates the protection of the equipment inside the enclosure against harmful ingress of water.		

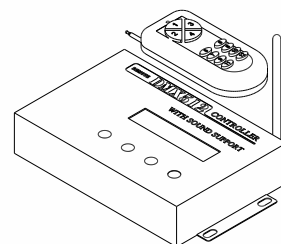
COMPONENT SIGNAGE SYSTEM



RGB Controller (For RGB LEDs & Under-lighter)
ALEDRGBCONTROLLER

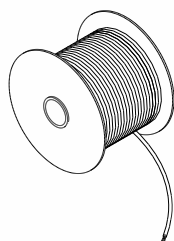


Light Chaser Colour Controller (For Light Chaser only)
ALEDCHASERCONTROL

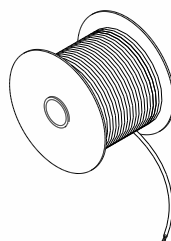


DMX RGB Controller with Remote (Spotlights & Wall Washes)
ALEDDMXCONTROL

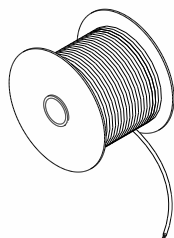
PRODUCT	CODE	QTY	£	DISCOUNT RATES (PER ITEM)			
				QTY	£	QTY	£
RGB Controller Dimensions: 106mm x 70mm x 26mm	ALEDRGBCONTROLLER	1	20.00	5+	18.24	10+	17.02
Light Chaser Colour Controller Dimensions: 106mm x 70mm x 26mm	ALEDCHASERCONTROL	1	60.00				
DMX RGB Colour Controller Dimensions: 160mm x 95mm x 32mm	ALEDDMXCONTROL	1	80.00	2+	75.64		



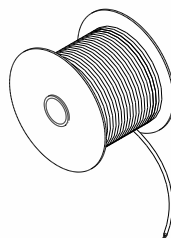
10m/100m 2-Core Cable (Black)
ALEDC2C10B / EAC2C100B



10m/100m 2-Core Cable (White)
ALEDC2C10W / EAC2C100W



10m/100m 3-Core Cable (Black)
ALEDC3C10B / EAC3C100B

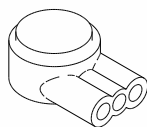


10m/100m 3-Core Cable (White)
ALEDC3C10W / EAC3C100W

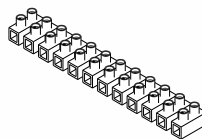
PRODUCT	CODE	LENGTH	QTY	£	DISCOUNT RATES (PER ITEM)	
					QTY	£
2-Core Cable (Black)	ALEDC2C10B	10m	1	3.33	5+	3.00
2-Core Cable (White)	ALEDC2C10W	10m	1	3.33	5+	3.00
2-Core Cable (Black)	EAC2C100B	100m	1	24.98	5+	22.14
2-Core Cable (White)	EAC2C100W	100m	1	24.98	5+	22.14
3-core Cable (Black)	ALEDC3C10B	10m	1	7.35	5+	6.62
3-core Cable (White)	ALEDC3C10W	10m	1	7.35	5+	6.62
3-core Cable (Black)	EAC3C100B	100m	1	55.13	5+	48.88
3-core Cable (White)	EAC3C100W	100m	1	55.13	5+	48.88

2-Core Cable is for use with the White LEDs (between LEDs and the Power Supply or increasing spacing between LEDs).
3-core Cable is for use with the Power Supply (between Mains and Power Supply).

COMPONENT SIGNAGE SYSTEM

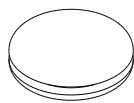


Gel Connectors
ALEDIDC
(To join 2 cables together)

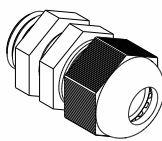


Block Connectors
ALEDCB
(To join cables together)

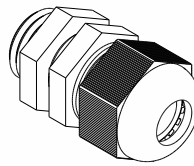
PRODUCT	CODE	FINISH	QTY	£	DISCOUNT RATES (PER BOX)	
					QTY	£
Gel Connector Dimensions: 17mm x 12mm x 8mm	ALEDIDC	Clear/Red	1	0.22	100	17.90
Block Connectors Dimensions: 140mm x 24mm x 16mm	ALEDCB	Clear	1	1.95	10	13.00



20mm Blind Gromets
ALEDBG
(To seal cable coming out of lightbox)

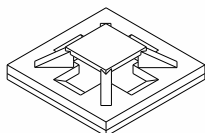


Small Cable Gland (Black/White)
ALEDCGSB/ALEDCGSW
(To seal cable coming out of Troughlight)

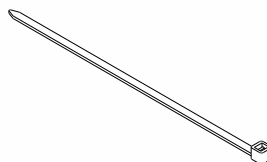


Large Cable Gland (Black/White)
ALEDCGLB/ALEDCGLW
(To seal cable coming out of Troughlight)

PRODUCT	CODE	MATERIAL	FINISH	QTY	£	DISCOUNT RATES (PER BOX)	
						QTY	£(BOX)
20mm Blind Gromet Dimensions: 23mm x 23mm x 6mm	ALEDBG	RUBBER	Black	1	0.10	100	6.60
Small Cable Gland (Black) Dimensions: 28mm x 17mm x 17mm	ALEDCGSB	NYLON	Black	1	0.62	10	4.26
Small Cable Gland (White) Dimensions: 28mm x 17mm x 17mm	ALEDCGSW	NYLON	White	1	0.62	10	4.26
Large Cable Gland (Black) Dimensions: 40mm x 23mm x 23mm	ALEDCGLB	NYLON	Black	1	0.74	10	5.12
Large Cable Gland (White) Dimensions: 40mm x 23mm x 23mm	ALEDCGLW	NYLON	White	1	0.74	10	5.12

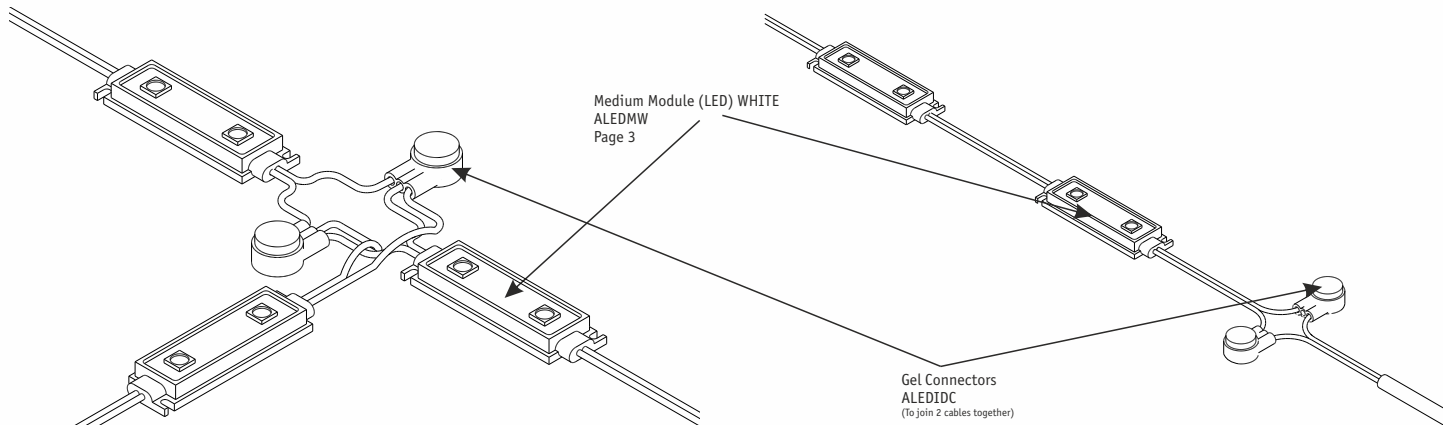


Cable Tie Mount (Black)
ALEDCTMB
(Self Adhesive)



Cable Tie (Clear)
ALEDCT160C

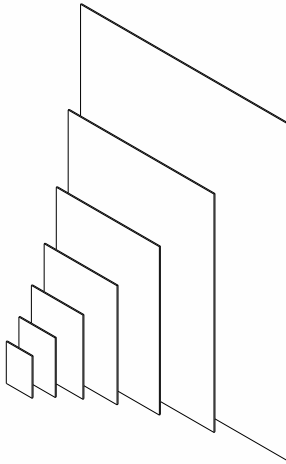
PRODUCT	CODE	MATERIAL	FINISH	QTY	£	DISCOUNT RATES (PER BOX)	
						QTY	£(BOX)
Cable Tie Mount (Black) Dimensions: 20mm x 20mm	ALEDCTMB	NYLON	Black	1	0.18	100	12.20
Cable Tie (Clear) Dimensions: 160mm x 4.8mm	ALEDCT160C	NYLON	Clear	1	0.07	100	3.45



COMPONENT SIGNAGE SYSTEM

Paper Size Guide

Size	Millimetres
A6	105mm x 148mm
A5	148mm x 210mm
A4	210mm x 297mm
A3	297mm x 420mm
A2	420mm x 594mm
A1	594mm x 841mm
A0	841mm x 1189mm



British SWG (Standard Wire Gauge) Table

SWG	Millimetres	SWG	Millimetres
7/0	12.700mm	23	0.610mm
6/0	11.786mm	24	0.559mm
5/0	10.973mm	25	0.5080mm
4/0	10.160mm	26	0.4572mm
3/0	9.449mm	27	0.4166mm
2/0	8.839mm	28	0.3759mm
0	8.230mm	29	0.3454mm
1	7.620mm	30	0.3150mm
2	7.010mm	31	0.2946mm
3	6.401mm	32	0.2743mm
4	5.893mm	33	0.2540mm
5	5.385mm	34	0.2337mm
6	4.877mm	35	0.2134mm
7	4.470mm	36	0.1930mm
8	4.064mm	37	0.1727mm
9	3.658mm	38	0.1524mm
10	3.251mm	39	0.1321mm
11	2.946mm	40	0.1219mm
12	2.642mm	41	0.1118mm
13	2.337mm	42	0.1016mm
14	2.032mm	43	0.0914mm
15	1.829mm	44	0.0813mm
16	1.626mm	45	0.0711mm
17	1.422mm	46	0.0610mm
18	1.219mm	47	0.0508mm
19	1.016mm	48	0.0406mm
20	0.914mm	49	0.0305mm
21	0.813mm	50	0.0254mm
22	0.711mm		

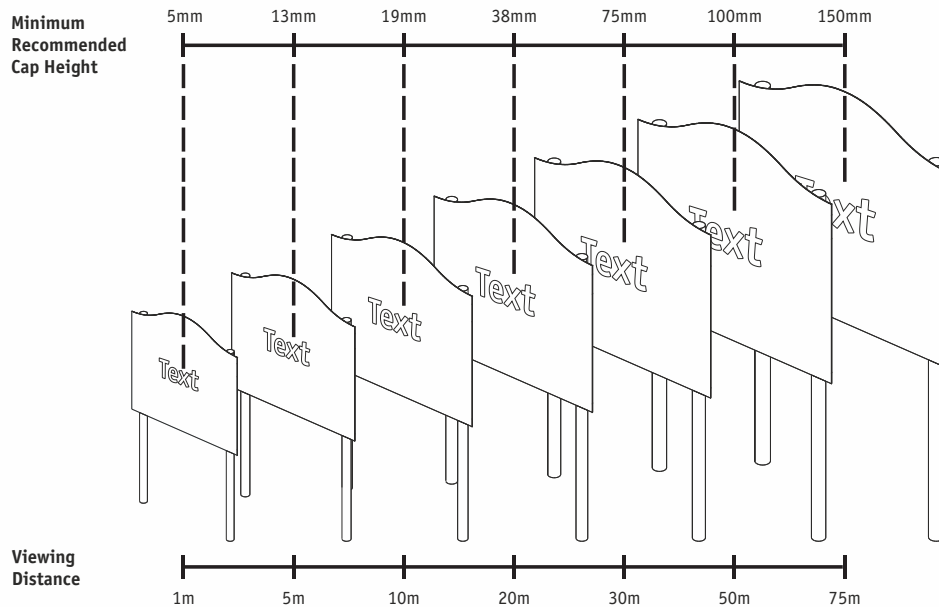
Feet to Millimetres Table

Feet	Millimetres	Feet	Millimetres
1	304.80mm	11	3352.8mm
2	609.60mm	12	3657.6mm
3	914.40mm	13	3962.4mm
4	1219.2mm	14	4267.2mm
5	1524.0mm	15	4572.0mm
6	1828.8mm	16	4876.8mm
7	2133.6mm	17	5181.6mm
8	2438.4mm	18	5486.4mm
9	2743.2mm	19	5791.2mm
10	3048.0mm	20	6096.0mm

Inches to Millimetres Table

Inches	Millimetres	Inches	Millimetres
1	25.400mm	15	381.00mm
2	50.800mm	16	406.40mm
3	76.200mm	17	431.80mm
4	101.60mm	18	457.20mm
5	127.00mm	19	482.60mm
6	152.40mm	20	508.00mm
7	177.80mm	21	533.40mm
8	203.20mm	22	558.80mm
9	228.60mm	23	584.20mm
10	254.00mm	24	609.60mm
11	279.40mm	25	635.00mm
12	304.80mm	26	660.40mm
13	330.20mm	27	685.80mm
14	355.60mm	28	711.20mm

Viewing Distances



This should be used as a guide as this can vary with text styles, colours and contrasts.

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