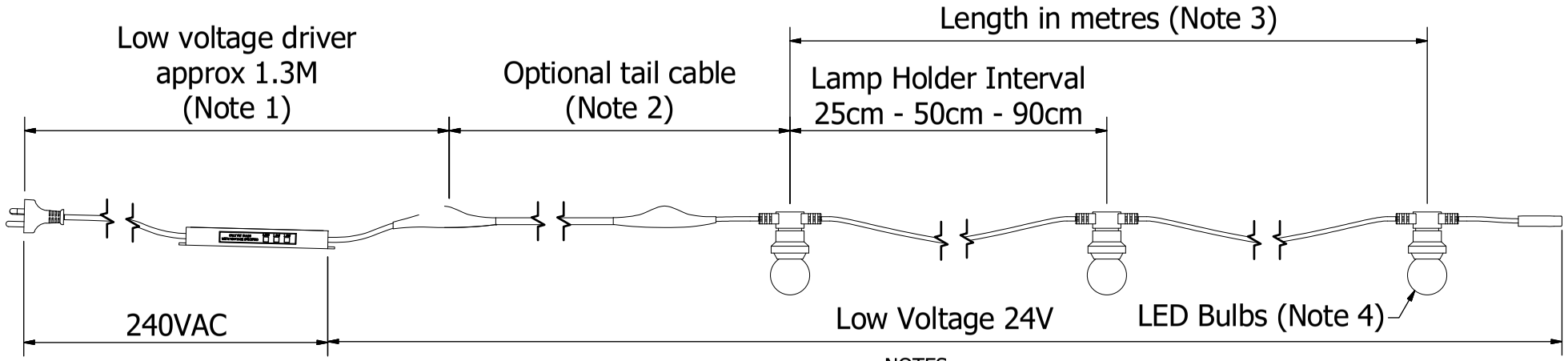

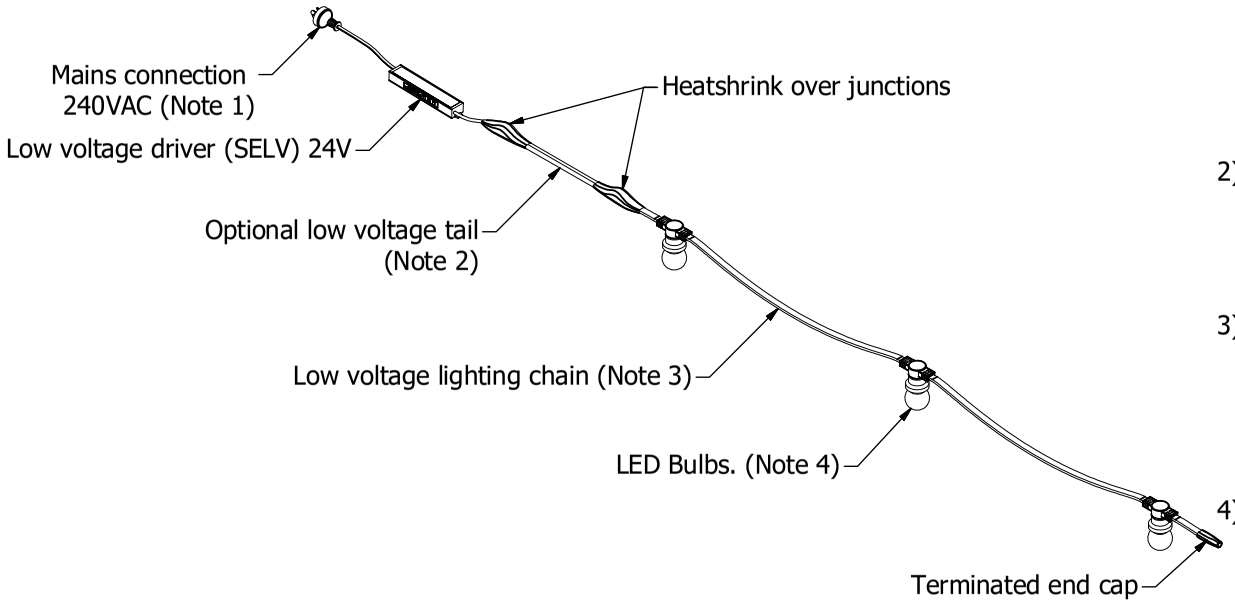

NOTES:

1) Mains (240VAC) lead and driver must be protected as per any mains connected device against pinching of the lead, pulling stresses etc, and must be supervised by a responsible person at all times.
Refer to the wattage specification sticker for the correct bulb replacement.
Do not exceed the maximum wattage rating of the driver.

2) Use a low voltage tail (up to 6 metres) to safely increase the distance from the power source to the first lamp.
This is recomended rather than using a mains connected extension lead to the driver.

3) Low voltage festoon cable with E27 lampholders and IP44 ingress protection.
Maximum wattages:
Lampholders 2.5W maximum each.
Any single continuous run 300W maximum.
Refer sheet 2 for a complete list of cable lengths.

4) Low voltage LED bulbs, polycarbonate shell with 94-V0 flame rating.
Refer to sheet 2 for correct installation and how to obtain a weather proof seal (IP44).
Replace bulbs only with the same wattage as fitted.
Refer sheet 3 for bulb wattage and recomended driver selection.

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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED	CR
B2	Wattage tables revised. Small heatshrink x 2 removed from assembly.	09/12/2016	DG	
B1	Wattage tables revised	02/08/2015	DG	
B0	Major update	25/07/2015	DG	
A0	Initial Release	12/04/2014	PG	

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Material | Finish

SCALE: DNS

Designed by	Checked by	Approved by	Date	Project	Date
DavidG		PG			12-Apr-14

Dimensions in millimetres
Limit on untoleranced unmachined dimensions ± 0.2mm
No decmal place 1mm
1 decimal place ± 0.3mm
2 decimal places ± 0.1mm
General unmachined angular tolerance ±1°
Tolerance to be non-cumulative

Low Voltage Festoon Kit Dimensions And Details

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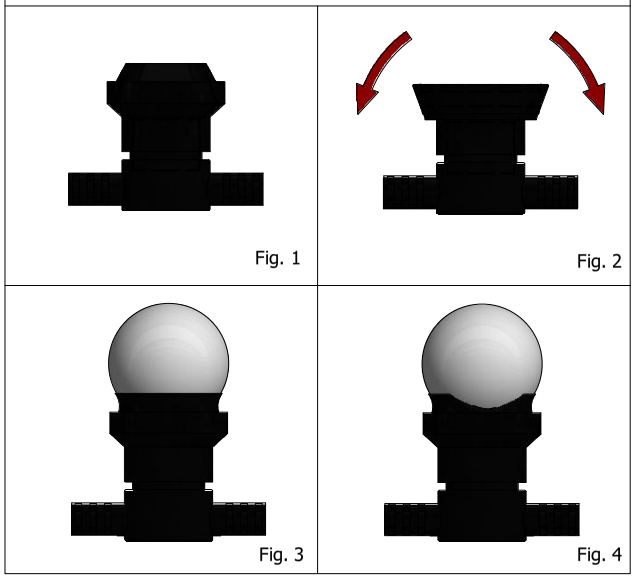
DISTANCE FIRST TO LAST BULB 25CM INTERVALS	
No. OF GLOBES	DIM A (METRES)
10	2.25
15	3.5
20	4.75
25	6.0
30	7.25
40	9.75
50	12.25
60	14.75
70	17.25
80	19.75
90	22.25
100	24.75
120	29.75
140	34.75

DISTANCE FIRST TO LAST BULB 50CM INTERVALS	
No. OF GLOBES	DIM A (METRES)
10	4.5
15	7.0
20	9.5
25	12.0
30	14.5
40	19.5
50	24.5
60	29.5
70	34.5
80	39.5
90	44.5
100	49.5
120	59.5
140	69.5

DISTANCE FIRST TO LAST BULB 90CM INTERVALS	
No. OF GLOBES	DIM A (METRES)
10	8.1
15	12.6
20	17.1
25	21.6
30	26.1
40	35.1
50	44.1
60	53.1
70	62.1
80	71.1
90	80.1
100	89.1
120	107.1
140	125.1

OBTAINING A PROPPER WEATHER PROOF SEAL (IP44)



OBTAINING A PROPPER WEATHER PROOF SEAL (IP44):
1) Ensure the gasket is present and sitting correctly around the lampholder. (Fig.1)
2) Fold gasket lip down completley. (Fig.2)
3) Insert bulb and fold gasket back up onto the bulb neck. (Fig.3)
4) A propper seal cannot be obtained if the gasket is creased under. (Fig.4)

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	Dimensions in millimetres Limit on untoleranced unmachined dimensions ± 0.2mm No decmal place 1mm 1 decimal place ± 0.3mm 2 decimal places ± 0.1mm General unmachined angular tolerance ±1° Tolerance to be non-cumulative			Low Voltage Festoon Kit Dimensions And Details		
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TOTAL WATTAGE CALCULATIONS AND RECOMENDED LED DRIVER

TOTAL WATTAGE AND RECOMMENDED DRIVER FOR 0.5W BULBS		
No. OF GLOBES	0.5W BULBS	DRIVER WATTS
10	5W	20W
15	7.5W	20W
20	10W	20W
25	12.5W	20W
30	15W	30W
40	20W	30W
50	25W	60W
60	30W	60W
70	35W	60W
80	40W	60W
90	45W	60W
100	50W	100W
120	60W	100W
140	70W	100W

TOTAL WATTAGE AND RECOMMENDED DRIVER FOR 1.0W BULBS		
No. OF GLOBES	1.0W BULBS	DRIVER WATTS
10	10W	20W
15	15W	20W
20	20W	30W
25	25W	60W
30	30W	60W
40	40W	60W
50	50W	100W
60	60W	100W
70	70W	100W
80	80W	150W
90	90W	150W
100	100W	150W
120	120W	150W
140	140W	200W

TOTAL WATTAGE AND RECOMMENDED DRIVER FOR 1.5W BULBS		
No. OF GLOBES	1.5W BULBS	DRIVER WATTS
10	15W	20W
15	22.5W	30W
20	30W	60W
25	37.5W	60W
30	45W	60W
40	60W	100W
50	75W	100W
60	90W	150W
70	105W	150W
80	120W	150W
90	135W	150W
100	150W	200W
120	180W	200W

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PARTS LIST		
ITEM	PART NUMBER	QTY
1	Driver 240V/24V	1
2	Heatshrink End Cap	1
3	Heatshrink Large	2
4	Heatshrink Small	1
5	Low Voltage Tail	1
6	Terminal Block	2

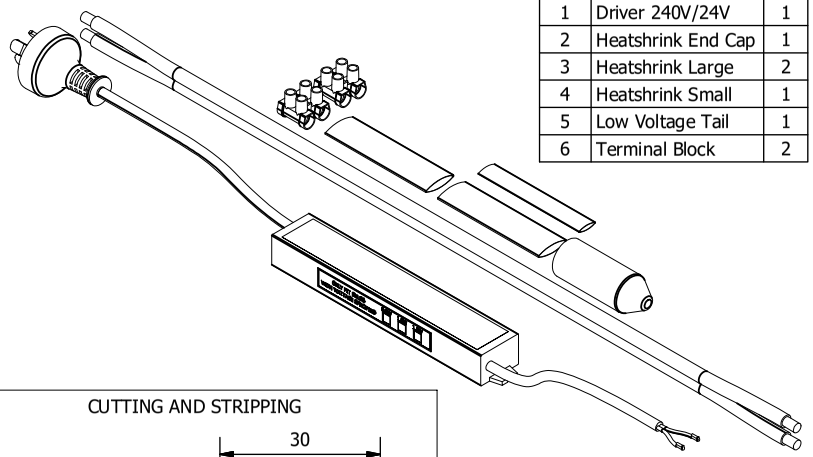

Fig. 1

CUTTING AND STRIPPING

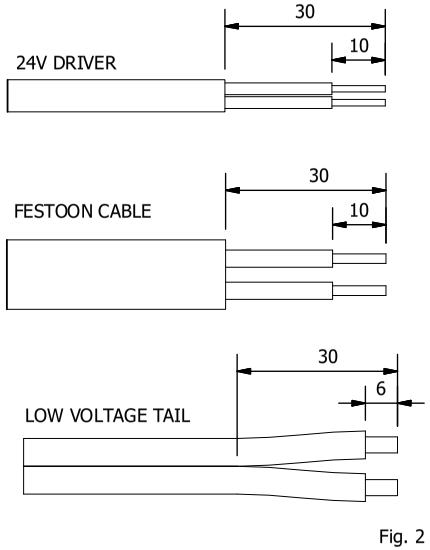

Fig. 2

ELECTRICAL CONNECTION

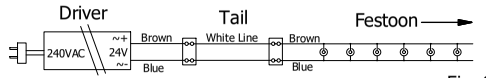

Fig. 6

CABLE SPECIFICATION: HO5RNH2-F 2 x 1.5mm2
DIMENSIONS: RECTANGULAR 13.5 x 5.5mm

Fig. 3a

Fig. 3b

Fig. 4a

Fig. 4b

Fig. 5

CONNECTION INSTRUCTIONS:
Assembling the cables correctly will give a trouble free, long life to your festoon kit.
Proper installation of the glue lined heatshrink will prevent the ingress of moisture,
and therefore corrosion, migrating through the wires.
The heatshrink also eliminates fatigue of the wire-to-terminal block connections when the cables are subjected to movement.

Please follow these instructions.
1) Check the list of components. (Fig.1)
2) Cut and strip wires. (Fig. 2)
3) Place heatshrink over cables. (Fig. 3a, Fig. 4a) (Note festoon cable does not require small heatshrink)
4) Fold over small stripped wires in half.
5) Connect wires to terminal blocks. (Fig. 6)
   Driver to Tail (Fig. 3a)
   Tail to festoon (Fig. 4a)
6) Test the connections by inserting a bulb and supplying power to the driver. do this carefully so as not to damage connections.
7) With a heat gun or torch, shrink large heatshrink, centered on terminal block. (Fig. 3b, Fig 4b)
8) Slip over small heatshrink and shrink on. (Fig. 3b, Fig 4b)
9) Shrink end cap over bare end of the festoon. (Fig. 5)
10) Mark the specified bulb wattage you are usiing on the low voltage driver sticker with an indelible marker.

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