

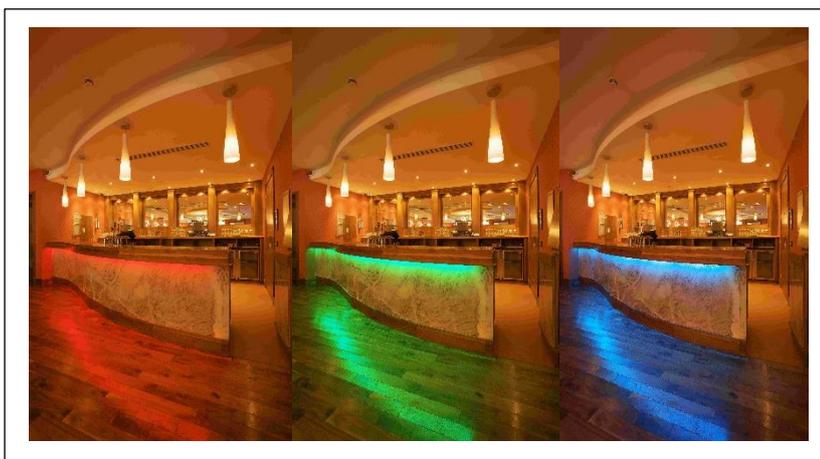
## DISPLAY & LED FLEXI-STRIPS

# ROBUS®

### VEGAS LED SINGLE COLOUR, RGB AND RGB+W FLEXI-STRIP WITH STANDARD OR WI-FI CONTROLLERS

This range of LED flexi-strip consists of single colour warm or neutral white, RGB or RGBW strip which can be ordered by the metre. This is a system, which when used with appropriate drivers and controllers provides a superb lighting effect for domestic, retail, commercial or entertainment venues. Accessory amplifiers allow the system to be extended to almost unlimited size.

For those requiring a ready to install system, we provide a **bespoke cutting and soldering service** through our conversions department where flexi-strip can be supplied to any length up to the maximum run size with supply tails



#### Applications:

- Restaurants, Bars, Hotels, Clubs
- Over/under wall cabinet/counter displays
- Ceiling and wall features
- Feature illumination
- Window dressing
- "Star buy" products

Now controllable from  
anywhere in the world  
using the Robus connect  
Smart Phone App and  
Wi-Fi controllers

#### Features & Benefits:

- The range can be ordered in reels of 10, 30 and 50 metres which is ideal for a stocking wholesaler or approved installer
- Alternatively, the flexi-strip can be ordered by the metre supplied by our customisation department. They will also supply bespoke system design lengths with pre-soldered supply tails along with control components as required
- The range includes Warm and Neutral white, RGB and RGB+W, which provides a range of solutions from simple dimmable single colour to exciting multi-colour mode combinations
- Available in 12 or 24VDC High, Medium or Low density the range provides impressive lighting solutions for low cost domestic or high specification homes, retail, entertainment venues or commercial premises
- IP20 or IP67 rated versions of all variants provide standard or higher ingress protection for wet area such as bathrooms or water features
- A full range of drivers make it suitable for small installations such as a display cabinet or for large bespoke systems requiring multiple high power PSU's
- A full range of aluminium extrusion in lengths of 2m provide mechanical protection for the strip where installed in positions where it might be damaged such as under stair tread nosing's
- There are connection packs available allowing complex flexi-strip shapes to be installed
- The flexi-strip can also be linked with DMX 512 control systems for extended control functionality for theatre type applications
- A complete range of dimmable drivers, controllers with remote control or wall plates provide extended control options you would expect from this professional system
- Amplifiers are also available to extend the system almost without limit
- The LED's used are of high quality, being tested to IES LM80 so have a rated LED life of 30,000 hours and carry the 3 year Robus warranty
- The LED's run cool so produce little infra-red which together with no ultra-violet in the light beam means they won't burn or damage sensitive fabrics or displays and are won't burn sensitive skin if touched

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#### Installation Notes subject to rules below:

Multiple lengths of flexi-strip can be supplied directly, or via a controller or amplifier, from a single driver up to its maximum power

For systems using a dimmable driver or controller, once the driver maximum power is reached, the output anywhere downstream of the controlling device should be sampled and fed into a powered amplifier to supply subsequent strip

Only recommended dimmers should be used with Dimmable drivers as poor performance may result

RGB flexi-strip can be wired direct to a driver for Primary and Secondary static colours

Amplifiers nor controllers are required for non-dimming white or static colour RGB flexi-strip

More than one controller or dimmable driver can produce "sync issues" or slightly different dimmed brightness

Powered amplifiers are recommended to be used in the above situation

Wall plates and hand held remotes will only work with their respective controllers. They are not interchangeable, nor can both be used with the same controller

Unlimited numbers of Powered Amplifiers can be used to boost and repeat the signal to additional flexi-strip

Long "low voltage" cable runs from a driver, amplifier or controller will have volt drop which should be factored into the design

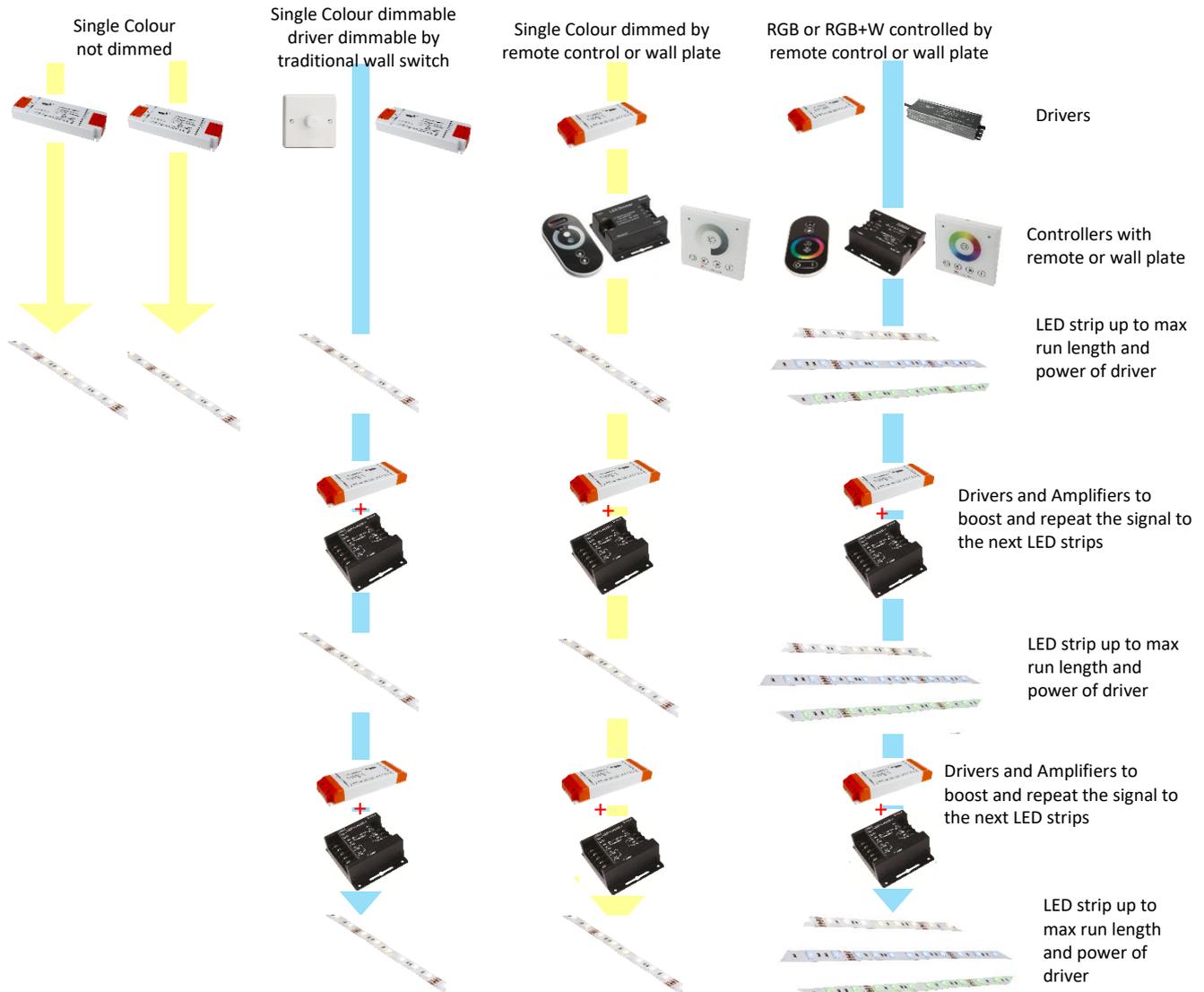
Volt drop calculation is dependent on cable type and design and can be supplied by the cable manufacturer

#### IMPORTANT RULES:

1. Flexi-strip should not be connected together to exceed the maximum continuous run length in the data table
2. Drivers, Controllers or Amplifiers rated power should not be exceeded

Please also refer to the Vegas brochure for comprehensive additional information

### LED Flexi-Strip and Component Simple Topology For 12/24VDC and IP20/67



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| FLEXI-STRIP                 | 3000K            | 4000K         | 3000K         | 4000K         | RGB           | RGB           | RGB+3000K        | RGB+4000K        |
|-----------------------------|------------------|---------------|---------------|---------------|---------------|---------------|------------------|------------------|
| Product Code:               | IP20 RVA48302050 | RVA48402050   | RVA96302050   | RVA96402050   | RVA72RGB2050  | RVA14RGB2050  | RVA12RGBW2030-30 | RVA12RGBW2030-40 |
| Reel Length (m):            | 50               | 50            | 50            | 50            | 50            | 50            | 30               | 30               |
| Maximum Run Length (m):     | 10               | 10            | 10            | 10            | 5             | 5             | 5                | 5                |
| Operating Voltage (Vdc):    | 12               | 12            | 24            | 24            | 12            | 24            | 24               | 24               |
| Volt Drop/m (V):            | 0.286            | 0.286         | 0.4           | 0.4           | 0.35          | 0.35          | 0.45             | 0.45             |
| LED's/m:                    | 60               | 60            | 120           | 120           | 30            | 60            | 60               | 60               |
| Total Power (W/m):          | 4.8              | 4.8           | 9.6           | 9.6           | 7.2           | 14.4          | 12               | 12               |
| Total Light Output (lm/m):  | 500              | 510           | 1070          | 1075          | NA            | NA            | NA               | NA               |
| Illuminance at 1m (lux):    | 120              | 130           | 240           | 240           | NA            | NA            | NA               | NA               |
| Beam Angle (deg):           | 120              | 120           | 120           | 120           | 120           | 120           | 120              | 120              |
| CRI (Ra):                   | 80               | 80            | 80            | 80            | NA            | NA            | 80               | 80               |
| Rated Life (hrs):           | 30000            | 30000         | 30000         | 30000         | 30000         | 30000         | 30000            | 30000            |
| Warranty (yrs):             | 3                | 3             | 3             | 3             | 3             | 3             | 3                | 3                |
| Ingress Protection (IP):    | 20               | 20            | 20            | 20            | 20            | 20            | 20               | 20               |
| Operating Temperature (°C): | -20 ≤ t ≤ +40    | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40    | -20 ≤ t ≤ +40    |
| Height (mm):                | 1.5              | 1.5           | 1.5           | 1.5           | 2             | 2             | 2                | 2                |
| Width (mm):                 | 8                | 8             | 8             | 8             | 8             | 8             | 12               | 12               |
| Box Qty:                    | 1                | 1             | 1             | 1             | 1             | 1             | 1                | 1                |
| Weight (kg):                | 0.75/reel        | 0.75/reel     | 0.85/reel     | 0.85/reel     | 0.85/reel     | 0.85/reel     | 1.2/reel         | 1.2/reel         |

|                             |                  |               |               |               |               |               |                  |                  |
|-----------------------------|------------------|---------------|---------------|---------------|---------------|---------------|------------------|------------------|
| Product Code:               | IP67 RVA48306730 | RVA48406730   | RVA96306730   | RVA96406730   | RVA72RGB6730  | RVA14RGB6730  | RVA12RGBW6710-30 | RVA12RGBW6710-40 |
| Reel Length (m):            | 30               | 30            | 30            | 30            | 30            | 30            | 10               | 10               |
| Maximum Run Length (m):     | 10               | 10            | 10            | 10            | 5             | 5             | 5                | 5                |
| Operating Voltage (Vdc):    | 12               | 12            | 24            | 24            | 12            | 24            | 24               | 24               |
| Volt Drop/m (V):            | 0.86             | 0.86          | 0.4           | 0.4           | 0.35          | 0.35          | 0.45             | 0.45             |
| LED's/m:                    | 60               | 60            | 120           | 120           | 30            | 60            | 60               | 60               |
| Total Power (W/m):          | 4.8              | 4.8           | 9.6           | 9.6           | 14.4          | 14.4          | 12               | 12               |
| Total Light Output (lm/m):  | 480              | 485           | 990           | 995           | NA            | NA            | NA               | NA               |
| Illuminance at 1m (lux):    | 110              | 110           | 230           | 230           | NA            | NA            | NA               | NA               |
| Beam Angle (deg):           | 120              | 120           | 120           | 120           | 120           | 120           | 120              | 120              |
| CRI (Ra):                   | 80               | 80            | 80            | 80            | NA            | NA            | 80               | 80               |
| Rated Life (hrs):           | 30,000           | 30,000        | 30,000        | 30,000        | 30,000        | 30,000        | 30,000           | 30,000           |
| Warranty (yrs):             | 3                | 3             | 3             | 3             | 3             | 3             | 3                | 3                |
| Ingress Protection (IP):    | 67               | 67            | 67            | 67            | 67            | 67            | 67               | 67               |
| Operating Temperature (°C): | -20 ≤ t ≤ +40    | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40    | -20 ≤ t ≤ +40    |
| Height (mm):                | 3                | 3             | 3             | 3             | 4             | 4             | 4                | 4                |
| Width (mm):                 | 10               | 10            | 10            | 10            | 10            | 10            | 14               | 14               |
| Box Qty:                    | 1                | 1             | 1             | 1             | 1             | 1             | 1                | 1                |
| Weight (kg):                | 1.9/reel         | 1.9/reel      | 1.92/reel     | 1.92/reel     | 1.92/reel     | 1.92/reel     | 0.75/reel        | 0.75/reel        |

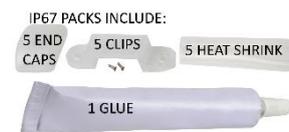
### Connection Accessories

CONNECTOR PACKS - Each pack contains connectors with the appropriate number of conductors for the strip type (2 to 5)

|                |   |
|----------------|---|
| RVA48-CONN     | IP20 12VDC SINGLE COLOUR CONNECTOR PACK           |
| RVA96-CONN     | IP20 24VDC SINGLE COLOUR CONNECTOR PACK           |
| RVARGB-CONN    | IP20 12VDC AND 24VDC RGB CONNECTOR PACK           |
| RVARGBW-CONN   | IP20 24VDC RGB+W CONNECTOR PACK                   |
| RVA67-CONN     | IP67 12VDC AND 24VDC SINGLE COLOUR CONNECTOR PACK |
| RVA67RGB-CONN  | IP67 12VDC AND 24VDC RGB CONNECTOR PACK           |
| RVA67RGBW-CONN | IP67 12VDC AND 24VDC RGB+W CONNECTOR PACK         |

#### FIXED ADAPTERS

|               |  |
|---------------|--|
| RVA48*-CONN   | REPLACE * WITH L, T OR X FOR IP20 12VDC (NOT 24VDC) SINGLE COLOUR STRIP (3 PIECES) |
| RVARGB*-CONN  | REPLACE * WITH L, T OR X FOR IP20 12VDC AND 24VDC RGB STRIP (3 PIECES)             |
| RVARGBW*-CONN | REPLACE * WITH L, T OR X FOR IP20 12VDC AND 24VDC RGB+W STRIP (3 PIECES)           |



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| NON-DIMMABLE DRIVERS        |               |               |                 |                  |               |               |                  |               |               | WALL SWITCH DIMMABLE DRIVERS |               |               |
|-----------------------------|---------------|---------------|-----------------|------------------|---------------|---------------|------------------|---------------|---------------|------------------------------|---------------|---------------|
| 12V IP20                    | RVA1512-PSU   | RVA3012-PSU   | RVA6012-PSU     | RVA10012-PSU     | NA            | RVA18012-PSU  | NA               | NA            | NA            | RVA3012DU-PSU                | RVA5012DU-PSU | RVA7512DU-PSU |
| 12V IP67                    | NA            | NA            | RVA6012IP67-PSU | RVA10012IP67-PSU | NA            | NA            | RVA20012IP67-PSU | NA            | NA            | NA                           | NA            | NA            |
| 24V IP20                    | RVA1524-PSU   | RVA3024-PSU   | RVA6024-PSU     | RVA10024-PSU     | RVA15024-PSU  | NA            | NA               | RVA25024-PSU  | RVA32024-PSU  | RVA3024DU-PSU                | RVA5024DU-PSU | RVA7524DU-PSU |
| 24V IP67                    | NA            | NA            | RVA6024IP67-PSU | RVA10024IP67-PSU | NA            | NA            | RVA20024IP67-PSU | NA            | NA            | NA                           | NA            | NA            |
| <b>Total Power (W):</b>     | 15            | 30            | 60              | 100              | 150           | 180           | 200              | 250           | 320           | 30                           | 50            | 75            |
| <b>Rated Life (hrs):</b>    | 30,000        | 30,000        | 30,000          | 30,000           | 30,000        | 30,000        | 30,000           | 30,000        | 30,000        | 30,000                       | 30,000        | 30,000        |
| <b>Warranty (yrs):</b>      | 3             | 3             | 3               | 3                | 3             | 3             | 3                | 3             | 3             | 3                            | 3             | 3             |
| <b>Safety Class:</b>        | II            | II            | II/I            | II/I             | II            | II            | I                | II            | II            | II                           | II            | II            |
| <b>Operating Temp (°C):</b> | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40   | -20 ≤ t ≤ +40    | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40    | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40                | -20 ≤ t ≤ +40 | -20 ≤ t ≤ +40 |
| <b>Power Factor (PF):</b>   | 0.9           | 0.9           | 0.9             | 0.9              | 0.9           | 0.9           | 0.9              | 0.9           | 0.9           | 0.9                          | 0.9           | 0.9           |
| <b>Height (mm):</b>         | 16            | 27            | 28/30           | 31/38            | 31            | 31            | 38               | 36            | 35            | 18                           | 18            | 31            |
| <b>Length (mm):</b>         | 103           | 149           | 170/216         | 180/212          | 180           | 183           | 212              | 195           | 215           | 158                          | 158           | 170           |
| <b>Width (mm):</b>          | 35            | 40            | 45/42           | 65/46            | 66            | 67            | 46               | 62            | 78            | 46                           | 46            | 56            |
| <b>Weight (kg):</b>         | 0.04          | 0.12          | 0.22/0.53       | 0.37/0.58        | 0.41          | 0.41          | 0.8              | 0.42          | 0.44          | 0.12                         | 0.21          | 0.3           |

## AMPLIFIERS AND CONTROLLERS



\*\*\*-AMP



RVACCT1-CRTL



RVARGB\*-CRTL



RVACCT1-WP



RVARGB\*-WP



RVA\*\*\*\*-Wi-Fi

USE CCT1 PRODUCTS FOR SINGLE-COLOUR STRIP AND RGB/RGBW PRODUCTS FOR MULTI-COLOUR STRIP.

Note the wall plate transmitter requires 230vac

| Product Code:                         | RVACCT1-AMP   | RVARGB-AMP | RVARGBW-AMP | RVACCT1-CRTL | RVARGB-CRTL | RVARGBW-CRTL | RVACCT1-WP | RVARGB-WP | RVARGBW-WP | RVACCT1-WIFI | RVARGB-WIFI             | RVARGBW-WIFI            |
|---------------------------------------|---------------|------------|-------------|--------------|-------------|--------------|------------|-----------|------------|--------------|-------------------------|-------------------------|
| <b>Total Power 12V/24V (W):</b>       | 144/288       | 216/432    | 384/768     | 216/432      | 360/720     | 384/768      | 360/720    | 360/720   | 384/768    | 120/240      | 120/240                 | 120/240                 |
| <b>Rated Life (hrs):</b>              | 30,000        | 30,000     | 30,000      | 30,000       | 30,000      | 30,000       | 30,000     | 30,000    | 30,000     | 30,000       | 30,000                  | 30,000                  |
| <b>Warranty (yrs):</b>                | 3             | 3          | 3           | 3            | 3           | 3            | 3          | 3         | 3          | 3            | 3                       | 3                       |
| <b>Ingress Protection (IP):</b>       | 20            | 20         | 20          | 20           | 20          | 20           | 20         | 20        | 20         | 20           | 20                      | 20                      |
| <b>Operating Temperature (°C):</b>    | -20 ≤ t ≤ +40 |            |             |              |             |              |            |           |            |              |                         |                         |
| <b>Output Current (mA):</b>           | 2x6,000       | 3x6,000    | 4x8,000     | 3x6,000      | 3x10,000    | 4x8,000      | 3x10,000   | 3x10,000  | 4x8,000    | 1x10,000     | 3x5,000 (max 10A total) | 4x5,000 (max 10A total) |
| <b>Operating Voltage (Vdc):</b>       | 12-24         | 12-24      | 12-24       | 12-24        | 12-24       | 12-24        | 12-24      | 12-24     | 12-24      | 12-24        | 12-24                   | 12-24                   |
| <b>Height Controller/Remote (mm):</b> | 34            | 34         | 34          | 33/22        | 33/22       | 33/22        | 24/NA      | 24/NA     | 24/NA      | 21           | 21                      | 21                      |
| <b>Length Controller/Remote (mm):</b> | 80            | 80         | 80          | 82/113       | 82/113      | 82/113       | 91/86      | 91/86     | 91/86      | 99           | 99                      | 99                      |
| <b>Width Controller/Remote (mm):</b>  | 73            | 73         | 73          | 83/55        | 83/55       | 83/55        | 88/86      | 88/86     | 88/86      | 39           | 39                      | 39                      |
| <b>Depth Controller/Remote (mm):</b>  | NA            | NA         | NA          | NA           | NA          | NA           | NA/34      | NA/34     | NA/34      | NA           | NA                      | NA                      |
| <b>Box Qty:</b>                       | 1             | 1          | 1           | 1            | 1           | 1            | 1          | 1         | 1          | 1            | 1                       | 1                       |
| <b>Weight (kg):</b>                   | 0.13          | 0.13       | 0.13        | 0.3          | 0.3         | 0.3          | 0.41       | 0.41      | 0.41       | 0.04         | 0.04                    | 0.04                    |

## ALUMINIUM EXTRUSIONS

| Product Code | Description                             | Mounting Type                | Strip Type           | Profile |
|--------------|---|------------------------------|----------------------|---------|
| REXS082-23   | Length 2m + 2 end caps                  | Surface                      | Single colour or RGB | 1       |
| REXS122-23   | Length 2m + 2 end caps                  | Surface                      | RGBW                 | 2       |
| REXR152-23   | Length 2m + 2 end caps                  | Recessed                     | Single colour or RGB | 3       |
| REXR122-23   | Length 2m + 2 end caps                  | Recessed                     | RGBW                 | 4       |
| REXR522-23   | Length 2m + 2 end caps + suspension kit | Recessed or Suspended        | All                  | 5       |
| REXC242-23   | Length 2m + 2 end caps + suspension kit | Surface Clipped or Suspended | All                  | 6       |

