

Ribbon Flex Installation Overview

ProFlex Overview

Our ProFlex is Commercial Grade high quality flex with a choice of control systems. ProFlex is bright and flexible with a 3M sticky backing. ProFlex can be cut and joined at pre-marked cutting places and features 60 x 50/50 LED's per metre at 14.4w.

ProFlex is available in either single colour or "RGB Colour Changing".

Control System for RGB ProFlex

Three control systems are available:

1. RF Remote Control
2. DMX Control
3. DMX / Stand-Alone Zoning Controller

Single Colour Flex

Connect the flex to the output terminals of the appropriate PSU; connect the PSU to a suitable 240v mains supply. The flex will then light.

RGB ProFlex

For the RGB ProFlex, the PSU is used to power one of the control systems detailed below. See control option specifications.

Note:

A maximum of 5m of Flex can be "Daisy Chained" from any Power Supply Unit. An RGB amplifier can be used to join lengths of RGB ProFlex together without running control cable back to the controller; however, this must be supplied with its own 24v power source, (see RGB Amplifier specification).

Power Supplies (PSU)

There are two PSU's available:

24v 100w: To power up to 1 x 5m lengths of ProFlex.

24v 350w: To power up to 4 x 5m lengths of ProFlex.

Note: There is a voltage control near the output terminal block on the PSU which will allow some control over the brightness of the flex, dimming it slightly. A small cross head screwdriver is required to adjust this as it is not designed as a user adjustment. Any adjustment to this control should be done at installation.

Important Note

Do not exceed the recommended limits as detailed above on any power supply or failure may occur.

PSU's are designed for installation purposes and care should be taken to site them so that the connection terminals are not accessible when connected to a mains supply.

Control Equipment for RGB ProFlex

To control the RGB Proflex you need to connect the flex to an appropriate controller & PSU.

Note: Up to 75m of two or four core 2.5mm sq cable can be connected between the control system and the ProFlex if required

RF Remote Control System

1. Connect the required Power Supply Unit to the RF Receiver.
2. Connect up to 3 x 5m lengths of RGB ProFlex to the RF Receiver.
3. Use the RF Remote Control unit to control the RGB ProFlex.
4. It is possible to pair multiple remotes to the same RF receiver or if zoning is required individual remotes can be paired to individual RF receivers.
5. RGB Amplifiers can be used to connect additional lengths of Proflex if required (see RGB Amplifier instructions).

DMX Data Hub

1. Connect the RGB ProFlex to the DMX Data Hub.
2. Connect the LED Technologies Easy Controller or a suitable DMX controller to the DMX Data Hub.
3. Connect the DMX Data Hub and DMX Desk into a suitable mains supply.
4. RGB Amplifiers can be used to connect additional lengths of Proflex if required (see RGB Amplifier instructions).

Controller / Zoner

1. Connect a 350w Power Supply Unit to the DMX Controller / Zoner.
2. Connect the RGB ProFlex to the DMX Controller / Zoner as required.
3. The Controller / Zoner is fitted with a built in controller but if a remote desk is required, connect either an LED Technologies Easy Controller (none zoning) or if zoning is required, a suitable 12 x channel DMX Desk to the Controller / Zoner.

Important: As a 24v Supply must be connected to any additional RF Receivers or RGB Amplifiers, care must be taken to ensure that the maximum length of ProFlex allowed per PSU is not exceeded.

RGB Amplifier

The RGB Amplifier will control up to 2 x 5m lengths of RGB ProFlex but it **MUST** be supplied with its own 24v Power source. The RGB Amplifier is used to copy the RGB signal from the RGB output from one of the control methods detailed above. It effectively enables additional lengths of ProFlex to be daisy chained together without the need for additional control equipment. The RGB Amplifier **MUST** however be supplied with its own 24v power source and care must be taken to ensure that the maximum length of ProFlex allowed per PSU is not exceeded. Additional PSU's can be used to power the RGB Amplifiers if required.

Important

For schematic diagrams of all the various options available for controlling and wiring ProFlex, please refer to our website and download the appropriate schematic diagrams and manuals: www.ledtechnologies.co.uk/led_rgb_strip.htm