

LED EPOXY TAPE SINGLE COLOUR USER GUIDE

Introduction:

Our range of single colour, super-bright LED tapes are supplied on 5m reels with a choice of 5 different colours, each with an adhesive back. The tape is easy to setup and quick to install, the low voltage supply and low power consumption makes them suitable for a wide variety of applications from homes to vehicles, from shops to bars and also nightclubs. The LEDs will last up to 50,000 hours and are covered with an epoxy coating to protect the tape from general wear and tear as well as being water resistant, this means cleaning an easy task.

Features:

- Marked lengths to aid cutting to size
- Can be cut to desired length (5cm intervals)
- 60 ultra bright LEDs per metre
- Available in 5 different colours
- Self-adhesive backing for easy installation
- Low voltage (12Vdc) and low power consumption
- Flexible and lightweight
- Supplied with easy-to-use connection accessories
- IP67 rated for outdoor use.

Before starting please ensure you read this instruction leaflet fully. We recommend this tape is installed by a fully qualified installer.

Section 1:

The LED tape comes supplied on a 5m reel and has 60 LEDs per metre. Different lengths can be cut at 5cm intervals marked on the upper side of the tape. These can be easily re-connected to suit various applications.

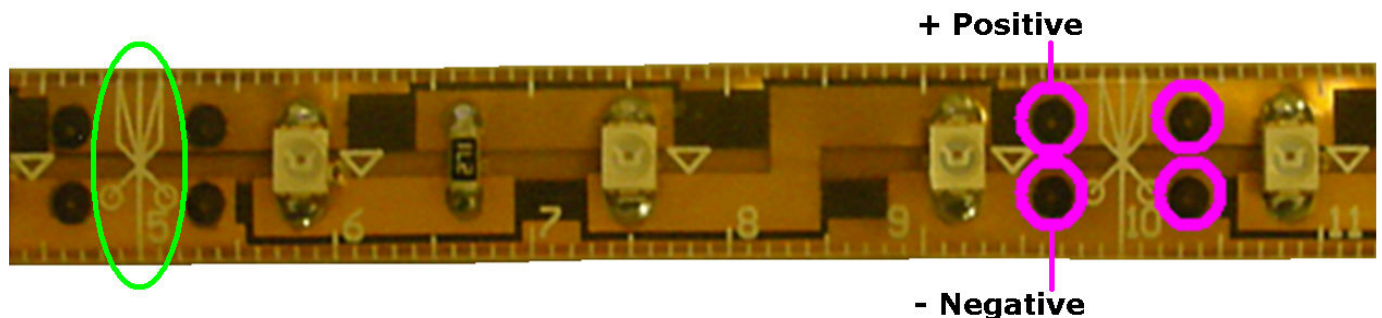
Supplied in the foil bag are:

- 1 x 5m Reel of LED tape
- 1 x 10cm DC extension lead
- 1 x 20cm DC cable
- 1 x 20cm Black heat shrink tube

The following colours are available:

Item Number	Description
153.705UK	Red
153.708UK	Green
153.711UK	Blue
153.714UK	Yellow
153.717UK	White

The tape has a DC track, + positive pole at the top and - negative pole at the bottom. It can be cut at 5cm intervals which are highlighted by the scissors symbol as shown below. DO NOT cut the tape at any other intervals as it will permanently damage the tape and will result in malfunction.



At either side of the cutting points are the DC connectors. If you want to extend these a DC cable can be soldered to them in order to connect more tape.

NOTE: Top connector is + and bottom connector is - Ensure you connect correctly or the tape will not work.

Points to remember when using this tape

- 1) Remove the 2.1mm DC Connector at the beginning and use a professional use power supply if the length of tape you require is over 17m
- 2) Only cut the tape at the highlighted 5cm intervals
- 3) The top track of the tape is the + Positive pole
- 4) The bottom track of the tape is the – negative pole
- 5) Ensure you connect the correct wires otherwise the tape will not work
- 6) Ensure that when soldering there are no short circuits
- 7) It is really important after soldering that you use the heat shrink provided to protect the connection.
- 8) Check that everything operates correctly before installing

Section 2

What power supply do I need?

When you have established what length of tape you require use the table below which highlights which universal power supply should be used for each colour. If you use a power supply that is not powerful enough then the potential brightness of the LEDs will be much dimmer.

NOTE: We recommend Mercury branded power supplies for short lengths and the QTX Light power supplies for longer lengths.

Item Number	Colour	Current Per Meter	DC Power Supplies			Installer Power Supplies*		
			Up to 3m	Up to 5M	Up to 10m	Up to 10m	Up to 17m	Up to 25m
153.705UK	RED	450mA	12Vdc 1500mA (20W)	12Vdc 3000mA (30W)	12Vdc 6000mA (70W)	12Vdc 5000mA (60W)	12Vdc 8400mA (100W)	12Vdc 12500mA (150W)
153.708UK	GREEN							
153.711UK	BLUE							
153.714UK	YELLOW							
153.717UK	WHITE							
Recommended Mercury Power Supply Reference			660.445UK or 661.403UK	660.684UK or 661.406UK	661.126UK	103.744UK	153.745UK**	153.747UK**

*Installer power supplies are supplied with no BS wall socket plug and are only to be used by professional installers. Do not attempt to use these power supplies unless you are suitably qualified.

** You can double the potential length of this tape by looping the two outputs together.

FAQ:

Q) Can I connect different colours in a chain?

A) Yes all the LEDs draw the same power, current and have the same connection.

Q) Can I cut and re-solder the tape?

A) Yes.

Q) Can you cut a 5m tape in to many different sections then connect them all together?

A) Yes as long as you cut the tape at 5cm intervals highlighted.

Q) If I don't have a powerful enough power supply will it still work?

A) Yes but the LEDs will be brighter at the beginning and dimmer towards the end. Also it is important to remember not to use the power supply to more than 80% of its maximum rated power to avoid burning out.

Q) Can I connect the tape together to form a loop?

A) Yes as long as both sides have a sufficient power supply it is possible.

Q) Can I use a dimmer on the LED Tape?

A) There is no QTX Dimmer available for the LED tape but yes it would be possible however due to the low current drawn by LEDs they tend to flicker rather than stay static when low power is supplied.

Q) Can I use the tape outdoors?

A) Yes, the tape is IP67 rated. Ensure that the terminated ends are heat shrink protected.

Q) Can I replace / patch damaged tape with a new piece

A) Yes, just highlight the effected area by the 5cm intervals. Cut out the faulty section then fit in a new piece soldering the connections securely and using heat shrink provided to protect the repaired connection.