QD-150 24V LED Tape DMX Driver

150W

2 output

1-8ch

24V

2x 5A

RGBW

RGB

S

HP
SMD5050
60LED/M

MP
SMD3528
120LED/M

SP
SMD3528
60LED/M

30M

30M

10M

15M

30M
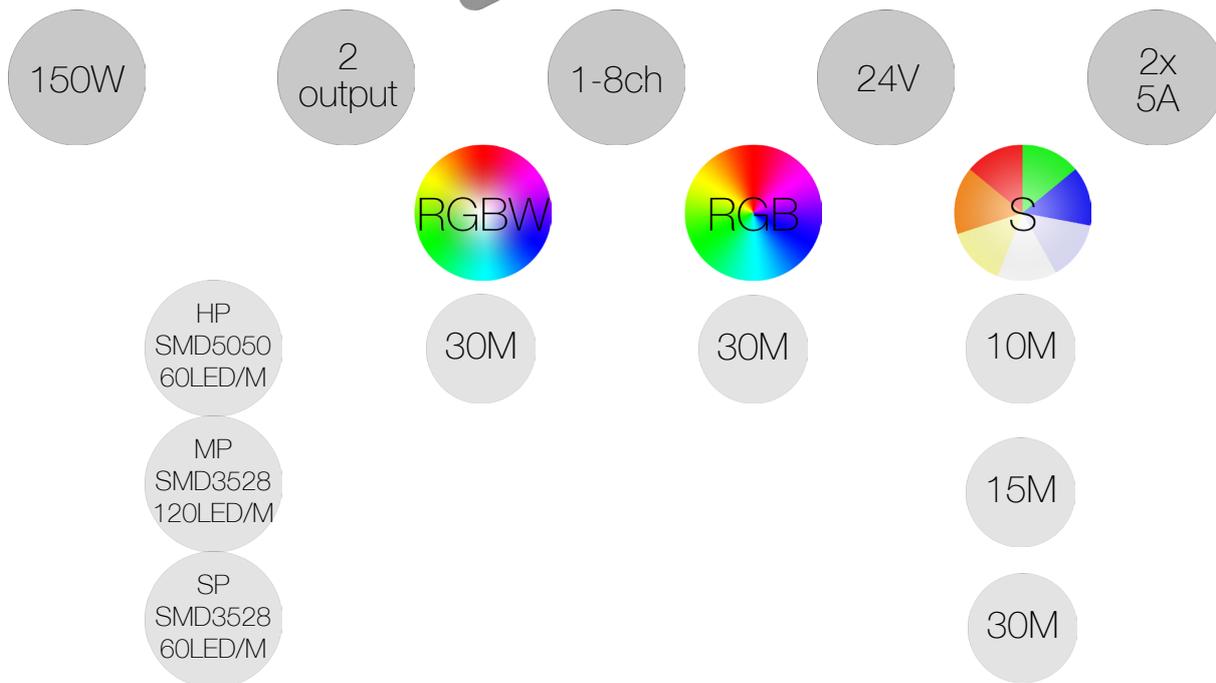
110-240VAC
Input Voltage

24V
Output Voltage

2x 5A
Max Output Current

150W
Max Power Consumption

Power Balance Software

1-8 Channel
2 x Output

IP20
Ingress Protection

Phoenix
Output Connectivity

-10ºc / +40ºc
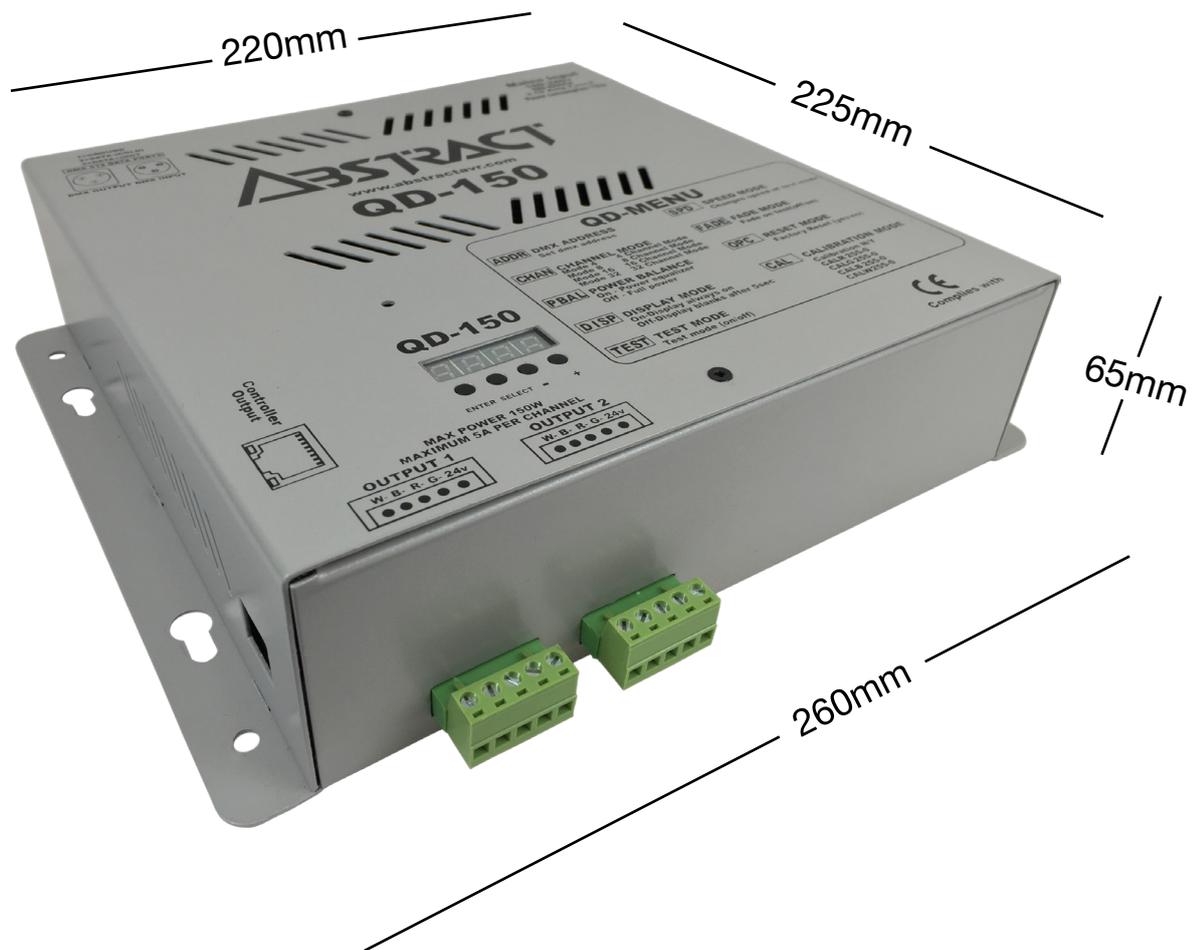Operating Temp

Cooling System:
Convection

Tel: +44 (0) 116 278 8078
Email: sales@abstractavr.com
Website: www.abstractavr.com

UK MADE

QD-150 24V LED Tape DMX Driver
Dimensions

220mm

225mm

65mm

260mm

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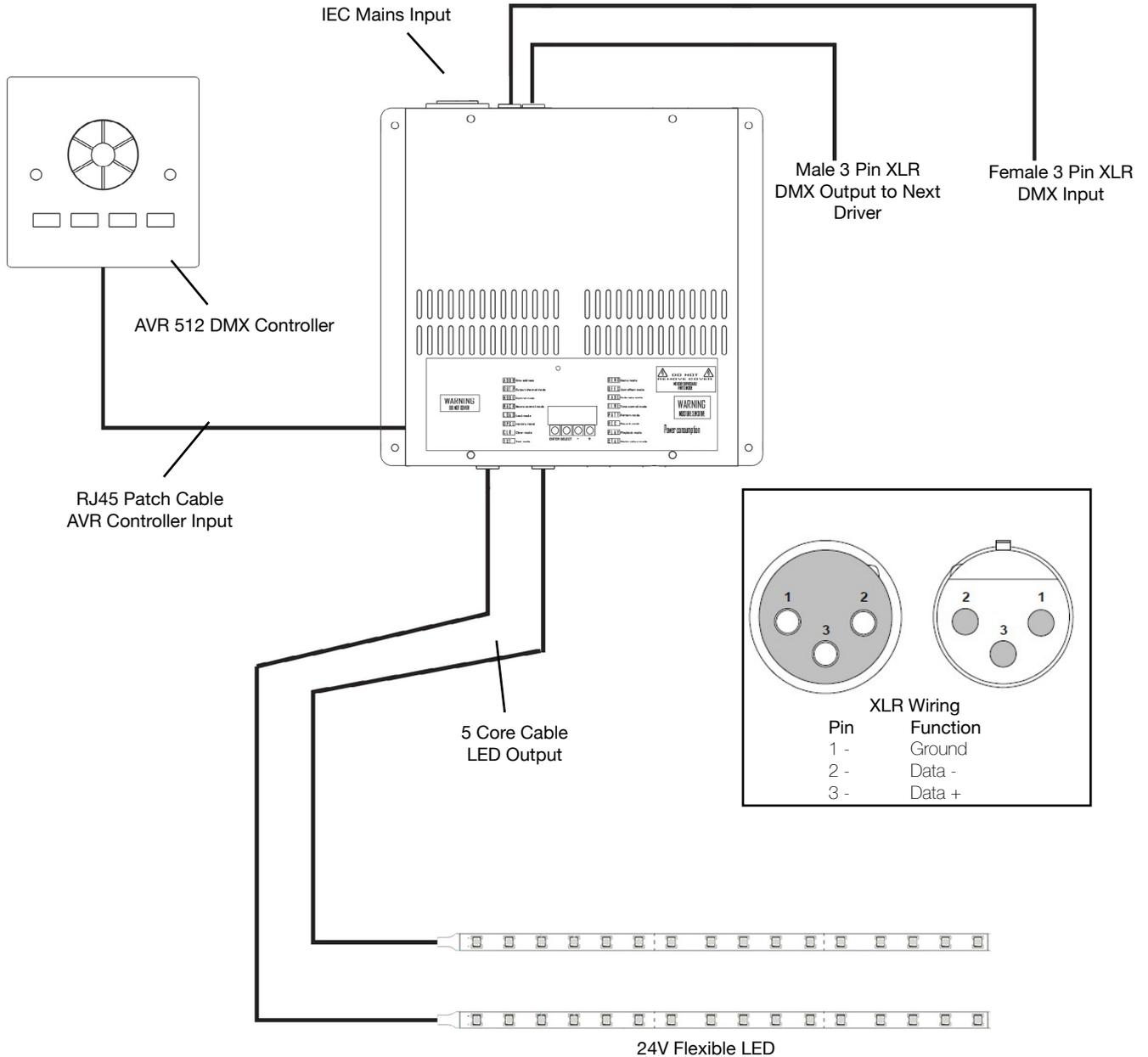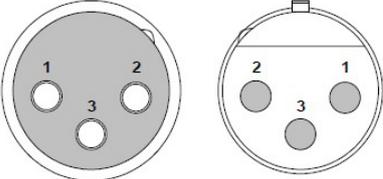Website: www.abstractavr.com

UK MADE

User Data - Dimensions
Date: 01-11-2016
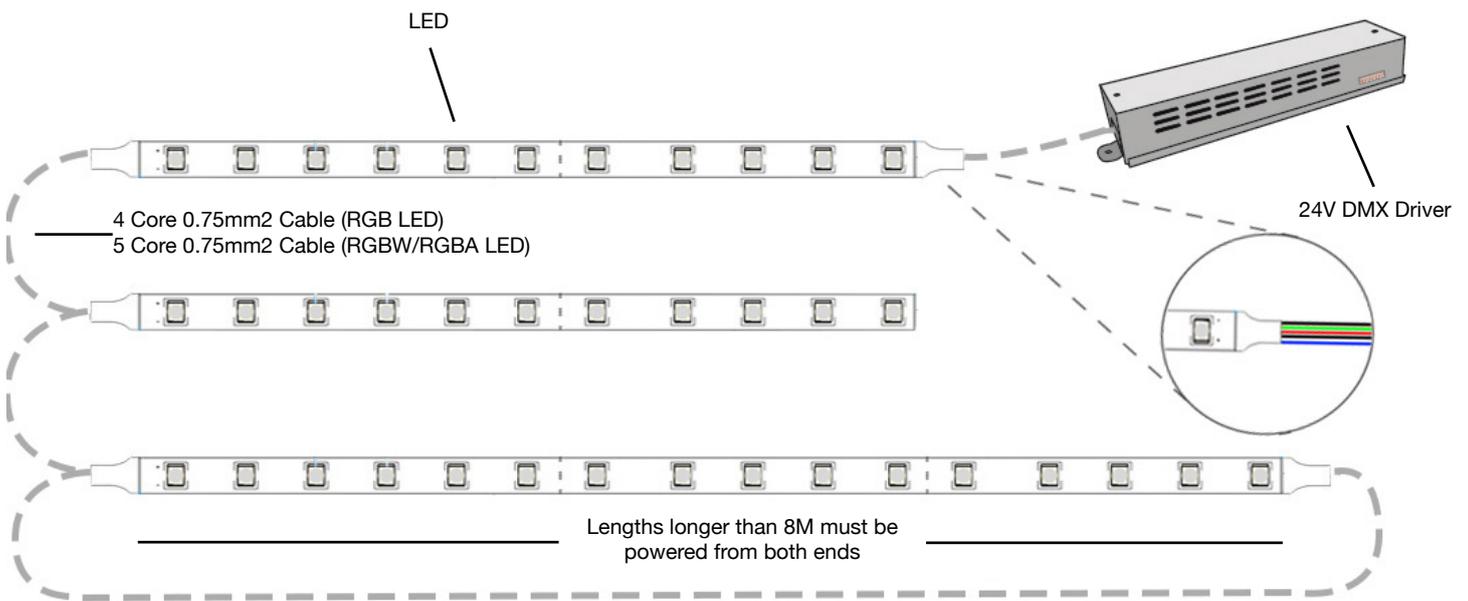Page 2/5

QD-150 24V LED Tape DMX Driver
Wiring Connections

RJ45 Wiring

Pin	Colour	Function
1 -	Orange/White	Data +
2 -	Orange	Data -
4 -	Blue	24V
8 -	Brown	Ground

IEC Mains Input

Male 3 Pin XLR
DMX Output to Next
Driver

Female 3 Pin XLR
DMX Input

AVR 512 DMX Controller

RJ45 Patch Cable
AVR Controller Input

WARNING
DO NOT COVER

WARNING
DO NOT ENCLOSE

Power consumption

5 Core Cable
LED Output

XLR Wiring

Pin	Function
1 -	Ground
2 -	Data -
3 -	Data +

24V Flexible LED

Colour Change Flexible LED System Wiring

LED

4 Core 0.75mm2 Cable (RGB LED)
5 Core 0.75mm2 Cable (RGBW/RGBA LED)

24V DMX Driver

Lengths longer than 8M must be
powered from both ends

WARNING! Example diagram only. Please read this section carefully before any installation work is carried out. All work should be carried out as per our instructions. Failure to do so may void any warranty. These instruction are to be used in addition to the Driver manuals.

IMPORTANT

All work involving electrical components should be carried out by a competent qualified electrical professional in accordance to IET BS 7671 and any local by-laws.

Installation instructions are for the installation of this product with the manufacturer's compatible recommended DMX drivers.

All mains power **MUST** be turned off before starting installation or maintenance; and **MUST** remain off for the duration of installation or maintenance.

Equipment may become hot to the touch when used for periods of time. Ensure equipment is off and cooled before carrying out maintenance.

The total combined length of colour change flexible LED connected to any single 'LED' output **MUST NOT EXCEED 15M**.

Any continuous lengths of LED exceeding 8M **MUST** be powered from both ends, as per wiring diagram.

TESTING

You should test each length of LED in isolation before continuing installation.

1. Disconnect the Driver from mains power.

2. Connect length of LED to the 'LED' socket of the Driver in isolation.

3. Power up the Driver.

4. Press 'ENT' continuously to select RED, GREEN, BLUE and WHITE.

5. Repeat steps 1 to 4, for each length of LED.

If each length lights up and displays each colour you can continue with your installation.

If a length does not light up or display each colour please contact us for help. Do not continue your installation.

INSTALLATION

Ensure you have carried out the testing before installation.

1. Cut or solder LED to desired length using the designated cutting and soldering points.

2. Disconnect the Driver from mains power.

3. Connect LED to LED socket, ensuring that the colours are connected to the correct poles.

4. Additional lengths can be connected to the same LED output in parallel, ensuring you do not exceed a total length of 15M on any single LED output.
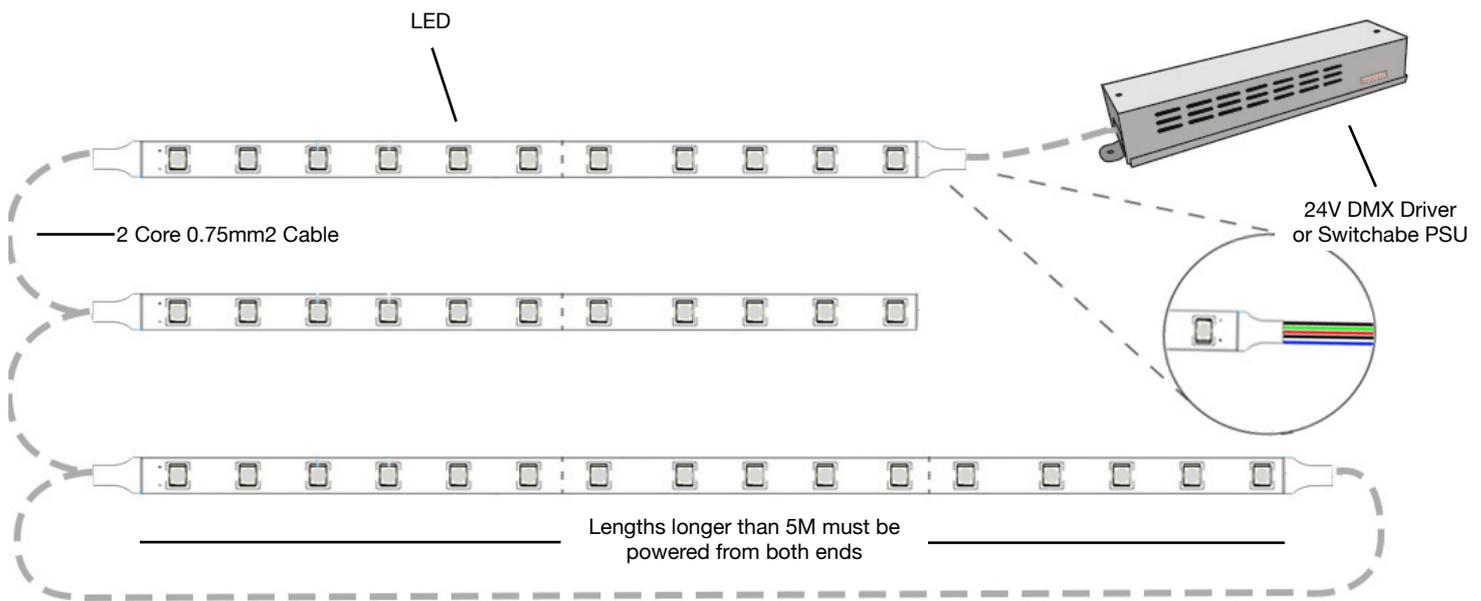
5. Repeat steps 1 - 4 for each length of LED.

Wiring

Pin	Function	Wire
1 -	White - / Amber -	White
2 -	Blue -	Blue
3 -	Red -	Red
4 -	Green -	Green
5 -	24V	Black

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User Data - Wiring
Date: 01/11/2016
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Single Colour Flexible LED User Data

LED

2 Core 0.75mm2 Cable

24V DMX Driver
or Switchabe PSU

Lengths longer than 5M must be
powered from both ends

WARNING! Example diagram only. Please read this section carefully before any installation work is carried out. All work should be carried out as per our instructions. Failure to do so may void any warranty. These instruction are to be used in addition to the Driver manuals.

IMPORTANT

All work involving electrical components should be carried out by a competent qualified electrical professional in accordance to IET BS 7671 and any local by-laws.

Installation instructions are for the installation of this product with the manufacturer's compatible recommended DMX drivers.

All mains power **MUST** be turned off before starting installation or maintenance; and **MUST** remain off for the duration of installation or maintenance.

Equipment may become hot to the touch when used for periods of time. Ensure equipment is off and cooled before carrying out maintenance.

The total combined wattage of any colour change flexible LED connected to any single 'LED' output of DMX driver **MUST NOT EXCEED 75W or MUST NOT EXCEED** the PSU's power rating.

Any continuous lengths of LED exceeding 5M **MUST** be powered from both ends, as per wiring diagram.

TESTING

You should test each length of LED in isolation before continuing installation.

1. Disconnect the Driver from mains power.

2. Connect length of LED to the 'LED' socket of the Driver or switchable PSU in isolation.

3. Power up the Driver.

4. DMX Drive: Press 'ENT' until you select channel that the length of LED is wired into.

5. Repeat steps 1 to 4, for each length of LED.

If each length lights up you can continue with your installation.

If a length does not light up please contact us for help. Do not continue your installation.

INSTALLATION

Ensure you have carried out the testing before installation.

1. Cut or solder LED to desired length using the designated cutting and soldering points.

2. Disconnect the Driver from mains power.

3. Connect LED to LED socket, ensuring that the colours are connected to the correct poles.

4. Additional lengths can be connected to the same LED output in parallel, ensuring you do not exceed the PSU's rated power.

5. Repeat steps 1 - 4 for each length of LED.

Pin	Wiring Function	Wire
1/2/3/4 -	GND -	Black
5 -	24V	Red