

LEDj

Spectra Q40 MKII **Exterior Fixture**

User Manual



Order code: LEDJ297

WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

- Before your initial start-up, please make sure that there is no damage caused during transportation.
- Should there be any damage, consult your dealer and do not use the equipment.
- To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.
- Please note that damages caused by user modifications to this equipment are not subject to warranty.



IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never let the power cable come into contact with other cables. Handle the power cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the unit.
- Do not open the equipment and do not modify the unit.
- Do not connect this equipment to a dimmer pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available mains supply voltage is between 100~240V AC, 50/60Hz.
- Make sure that the power cable is never crimped or damaged. Check the equipment and the power cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately and have a qualified engineer inspect the equipment before operating again.
- If your product fails to function correctly, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Prolight dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. **THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.**
- This lighting fixture is for professional use only - it is not designed for or suitable for household use. The product must be installed by a qualified technician in accordance with local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- Warning! Risk Group 2 LED product according to EN 62471. Do not view the light output with optical instruments or any device that may concentrate the beam.
- **WARRANTY:** One year from date of purchase.

OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g: short-circuit, burns and electric shocks etc.

Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and/or property.

Spectra Q40 MKII



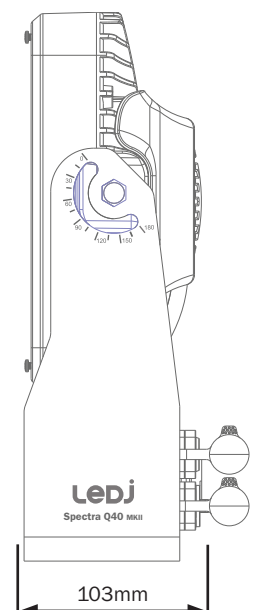
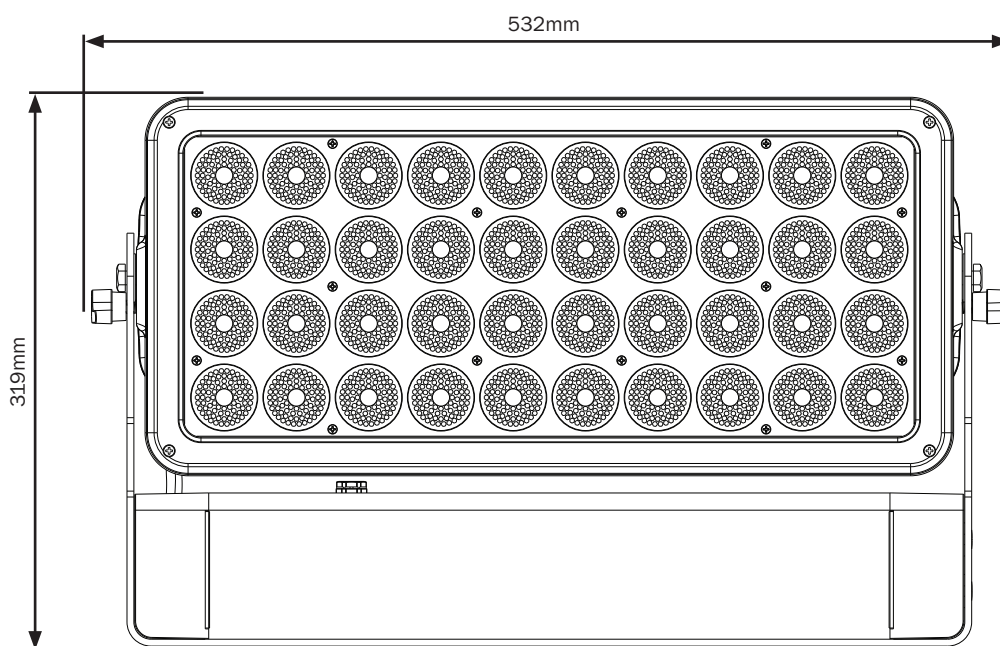
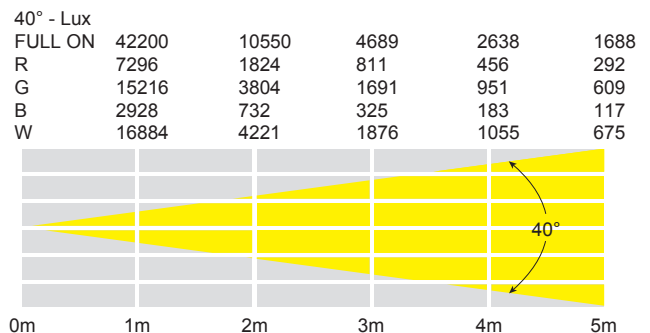
Equipped with 40 x 10W RGBW LEDs coupled with 40 degree collators the Q40 MKII flood is suitable for illuminating large buildings, event spaces or stages. The unit utilises quad-colour LED technology to reproduce a wide colour spectrum from rich, primary colours through to subtle pastel tones across a 40° beam with a flat, even field.

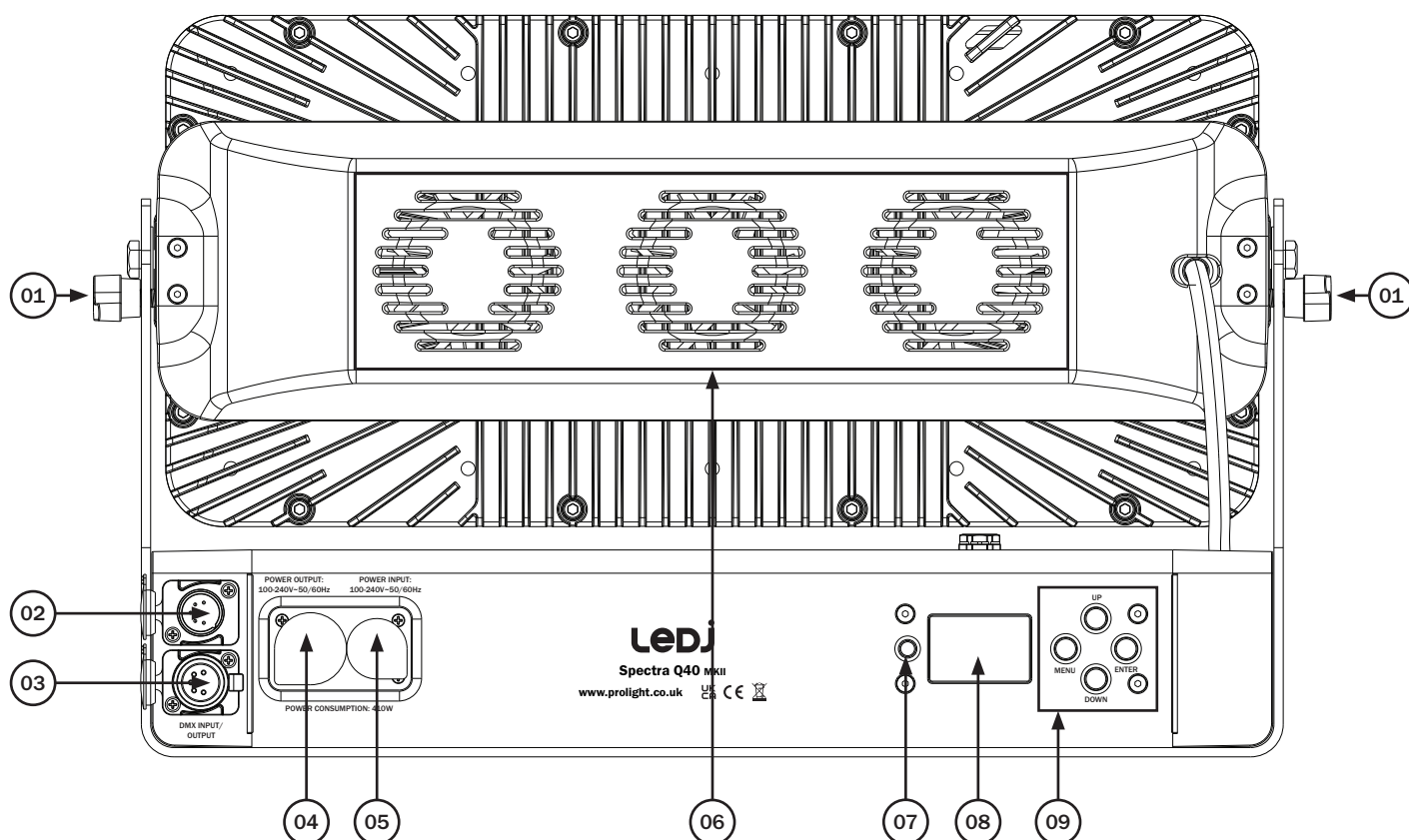
Designed for rental and events, the Q40 MKII features omega quick release brackets, removable floor stand/installation bracket and Seetronic TR1 IP65 connectors for power input/output and also features both wired and wireless control using CRMX TiMo wireless DMX by LumenRadio. The slim profile of the fixture is ideally suited for loading into road trunks holding multiple units.



- 40 x 10W quad-colour LEDs (RGBW)
- Beam angle: 40°
- 10,550 Lux @ 2m (full on)
- 3kHz refresh rate
- Wireless DMX control using CRMX TiMo wireless DMX by LumenRadio
- DMX channels: 4/6 or 8 selectable
- Static colour, colour change and colour fade modes
- Master/slave mode when cabled
- 0 - 100% dimming
- Variable strobe
- Supplied with installation bracket and quick release omega clamps
- 4 push button menu with LCD display
- Seetronic Power Twist TR1 IP65 power input/output
- IP rated 5-Pin XLR input/output
- Fan cooled

Specifications	Spectra Q40 MKII
Power consumption	410W
Power supply	100~240V, 50/60Hz
IP rating	IP65
Dimensions	319 x 532 x 103mm
Weight	12kg
Order code	LEDJ297





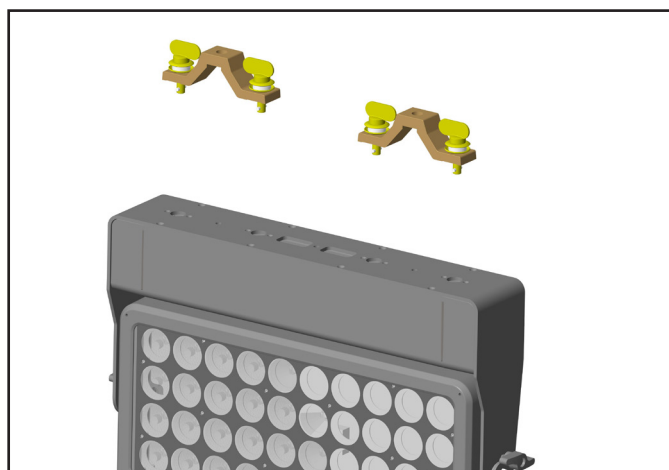
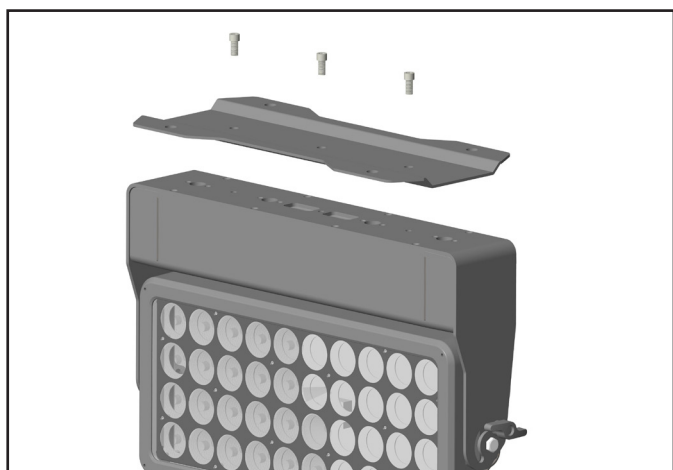
01 - Bracket tightening knobs
02 - IP rated 5-Pin XLR input
03 - IP rated 5-Pin XLR output
04 - Seetronic Power Twist

TR1 IP65 power output
05 - Seetronic Power Twist
TR1 IP65 power input
06 - Fans

07 - Wireless DMX status
08 - LCD display
09 - Function buttons

In the box: **1 x fixture,**
2 x omega clamps,
1 x mounting plate
3 x hex bolts
& 1 x power cable

Underside mounting points:



Main Menu	Sub Menu	Options/Values		Description
DMX Control	Address	001-512		DMX Address Setting
	Channels	4-CH (4 channel mode)		DMX Channel Setting
		6-CH (6 channel mode)		
		8-CH (8 channel mode)		
	Signal	DMX		DMX Input Signal Selection
		CRMX		
	CRMX Pair	Yes		Wireless DMX Pair/Unpair
		No		
Slave Mode				Slave Mode Setting
Auto Mode				Auto Mode
Dimmer	Red	000-255		Manual Dimming Mode
	Green	000-255		
	Blue	000-255		
	White	000-255		
Program	Show	01	C[-] (Colour) - See page 6 for colours	Built-in Programs
			Flash [0-99]	
		02-14	Speed [1-100]	
			Flash [0-99]	
Settings	Curve Settings	Curves	Linear	Dimming Curves Setting
			Square Law	
			Inv Square Law	
			S-Curve	
		Dimmer Speed	Fast	
			Smooth	
	BackLight-T	10S		Backlight Time
		20S		
		30S		
		60S		
		ON		
	BackLight-L	01-10		Backlight Brightness
	Factory Reset	Yes		Factory Reset
		No		
	DMX Fail	Blackout		DMX Signal Failure Setting
		Hold		
		Auto		
		Dimmer		
	Lock	On		Display/Menu Lock Setting
		Off		
Information	Temperature	Please see page 6 for more information		Temperature Detection
	Software	Vx.x.x		Software Version
	Work Time	xxxxxh		Fixture Hours

Please note: To unlock the menu press and hold the menu and enter buttons for 3 seconds.

Temperature Detection:

Temperature Normal	The temperature sensor work normally.
Temperature Danger	When the temperature is too high, the fixture will automatically enter into protection mode and reduce power.
Temperature Error	When the display shows Temperature Error, the fixture will automatically enter into protection mode and reduce power. In order to ensure the normal use, please service the unit. Causes: Temperature sensor is damaged or a loose connection to the temperature sensor.

Colour macros:

0	Blackout
1	Red
2	Flame Red
3	Deep Golden Amber
4	Millennium Gold
5	Gold Amber
6	Orange
7	Chrome Orange
8	Deep Amber
9	Spring Yellow

10	Lime Green
11	JAS Green
12	Fern Green
13	Moss Green
14	Primary Green
15	Dark Green
16	Green
17	Medium Blue Green
18	Light Blue
19	Lighter Blue

20	Steel Blue
21	Half CT Blue
22	Full CT Blue
23	State Blue
24	Double CT Blue
25	Medium Blue
26	Just Blue
27	Deep Blue
28	Blue
29	Congo Blue

30	Surprise Pink
31	Fuchsia Pink
32	Follies Pink
33	Special Rose Pink
34	Pink
35	Moroccan Pink
36	Warm White
37	Cold White
38	White

Wireless DMX (CRMX) settings:

To enable wireless DMX (CRMX), press the “**MENU**” button and use the “**UP**” and “**DOWN**” buttons to select “**DMX Control**”. Press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to select “**SIGNAL**”. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to select “**CRMX**”.

Press the “**ENTER**” button to confirm the setting.

To pair CRMX, press the “**MENU**” button and use the “**UP**” and “**DOWN**” buttons to select “**DMX Control**”. Press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to select “**CRMX PAIR**”. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to select “**YES**”.

Press the “**ENTER**” button to confirm the setting.

The green LED to the left of the display will flash indicating it is searching for a signal. Now pair your fixture with your CRMX transmitter. The green LED will become static once successfully paired.

To forget the CRMX memory, press and hold the menu button for 3 seconds.

4 channel mode:

Channel	Value	Function
1	000-255	Red dimmer (0-100%)
2	000-255	Green dimmer (0-100%)
3	000-255	Blue dimmer (0-100%)
4	000-255	White dimmer (0-100%)

6 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-255	Red dimmer (0-100%)
3	000-255	Green dimmer (0-100%)
4	000-255	Blue dimmer (0-100%)
5	000-255	White dimmer (0-100%)
6	000-255	Strobe (slow-fast)

8 channel mode:

CH1	CH2	CH3	CH4	CH5	CH6		CH7		CH8
Master dimmer (000-255)	Red dimmer (000-255)	Green dimmer (000-255)	Blue dimmer (000-255)	White dimmer (000-255)	Colour mixing via CH2, CH3, CH4 and CH5	000	Value	Colour	Strobe (slow-fast) (000-255)
					Static colour selection via CH7	001-018	000-010	Black	
							011-016	Red	
							017-022	Flame Red	
							023-028	Deep Golden Amber	
							029-034	Millennium Gold	
							035-040	Gold Amber	
							041-046	Orange	
							047-052	Chrome Orange	
							053-058	Deep Amber	
							059-064	Spring Yellow	
							065-070	Lime Green	
							071-076	JAS Green	
							077-082	Fern Green	
							083-088	Moss Green	
							089-094	Primary Green	
							095-100	Dark Green	
							101-106	Green	
							107-112	Medium Blue Green	
							113-118	Light Blue	
							119-124	Lighter Blue	
							125-130	Steel Blue	
							131-136	Half CT Blue	
							137-142	Full CT Blue	
							143-148	State Blue	
							149-154	Double CT Blue	
							155-160	Medium Blue	
							161-166	Just Blue	
							167-172	Deep Blue	
							173-178	Blue	
							179-184	Congo Blue	
							185-190	Surprise Pink	
							191-196	Fuchsia Pink	
							197-202	Follies Pink	
							203-208	Special Rose Pink	
							209-214	Pink	
							215-220	Moroccan Pink	
							221-226	Warm White	
							227-232	Cold White	
							233-255	Open White	

8 channel mode cont.:

CH1	CH2	CH3	CH4	CH5	CH6		CH7	CH8
Master dimmer (000-255)	Red dimmer (000-255)	Green dimmer (000-255)	Blue dimmer (000-255)	White dimmer (000-255)	Program 1	019-037	Speed (slow-fast) (000-255)	Strobe (slow-fast) (000-255)
					Program 2	038-056		
					Program 3	057-075		
					Program 4	076-094		
					Program 5	095-113		
					Program 6	114-132		
					Program 7	133-151		
					Program 8	152-170		
					Program 9	171-189		
					Program 10	190-208		
					Program 11	209-227		
					Program 12	228-246		
					Program 13	247-255		

Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a “start address” from 1- 512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, 105 and 106. Choose a start address so that the channels used do not overlap. E.g. the next unit in the chain starts at 107.

DMX 512:

DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a data “out” terminal).

DMX linking:

DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

DATA cable (DMX cable) requirements (for DMX operation):

This fixture can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit. Your unit requires IP65 5-pin XLR connectors for data input/output, see images below.



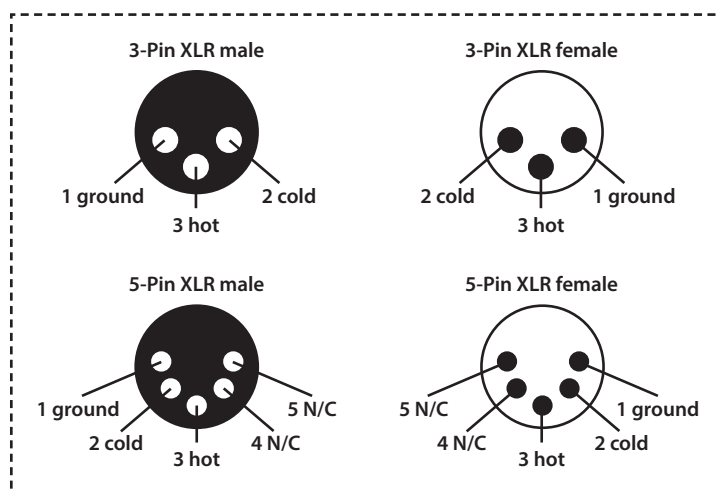
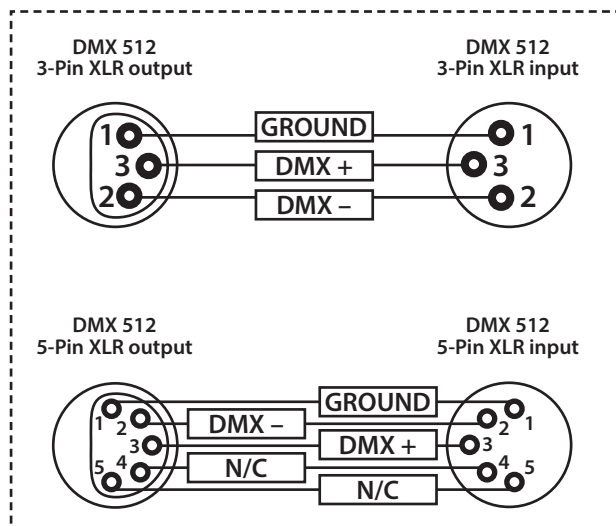
Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers.
 Please quote: 5-Pin: **CABL550– 2m** **CABL552 – 5m** **CABL553 – 10m**

Also remember that DMX cable must be daisy chained and cannot be split.

Notice:

Be sure to follow the diagrams below when making your own cables. Do not connect the cables shield conductor to the ground lug or allow the shield conductor to come in contact with the XLRs outer casing. Grounding the shield could cause a short circuit and erratic behaviour.

Pin Configuration	
3-Pin	5-Pin
	Pin 1 - Ground
	Pin 2 - Negative
	Pin 3 - Positive
-	Pin 4 - N/C
-	Pin 5 - N/C



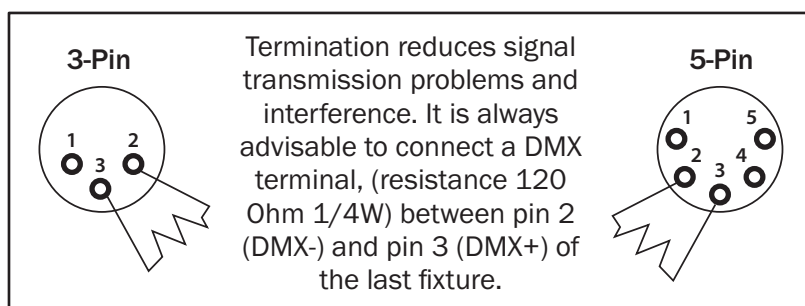
Line termination:

When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

Using a cable terminator will decrease the possibilities of erratic behaviour.

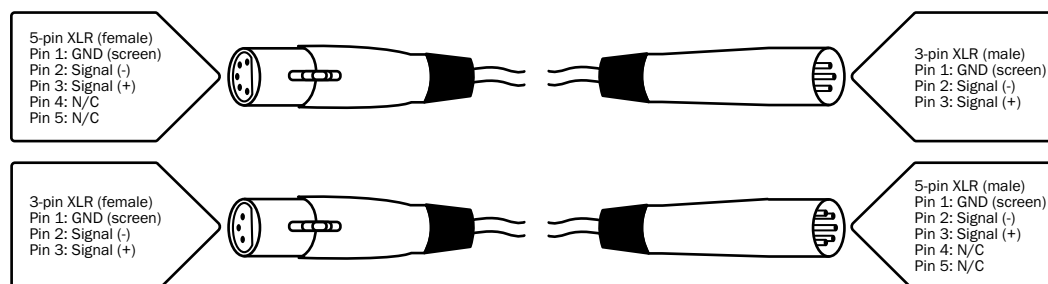
(3-pin - Order ref: CABL90,

5-pin - Order ref: CABL89)



5-pin XLR DMX connectors:

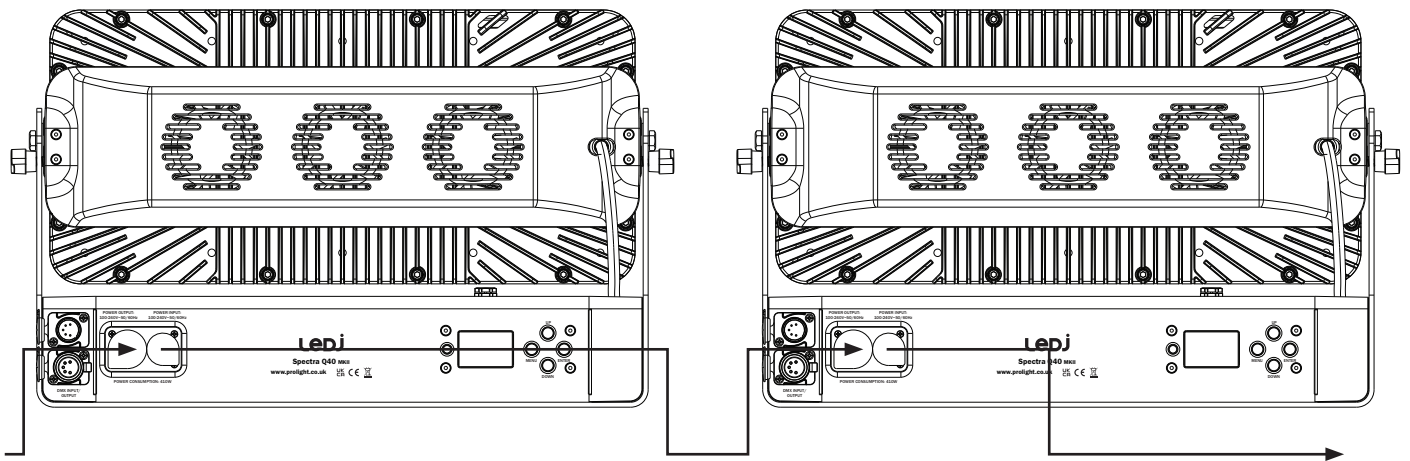
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



Power linking:

This fixture provides power linking via the power output on the rear allowing multiple units to be connected together. The maximum number of fixtures that can be connected is 2 fixtures @ 240V or 1 fixtures @ 120V (including the first fixture). After the maximum number of fixtures are connected a new power run will need to be started.

Please note: Caution should be used when power linking other fixtures to the Spectra Q40 MKII as the power consumption of other fixtures will vary. Fixtures fitted with lamps often require 2/3 times more current on startup, these may require their own power source.





Correct Disposal of this Product (Waste Electrical & Electronic Equipment)

**(Applicable in the European Union and other European countries
with separate collection systems)**

This marking shown on the product or its literature, indicates that it should not be disposed of with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

