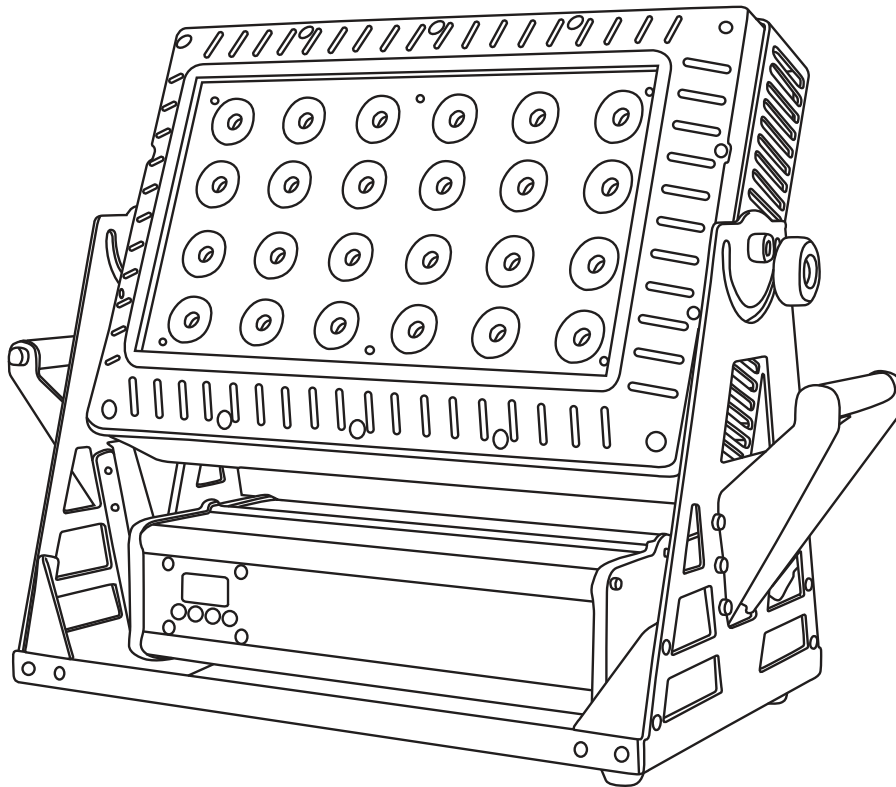




Spectra Flood 24T9

24 x 9W tri-colour LEDs (RGB)

User Manual



Convection
cooled,
no fan!

Order code: LEDJ280

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 voltage is between 100~240V, 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 the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not connect power or switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- 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 Pro Light 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.
- 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.

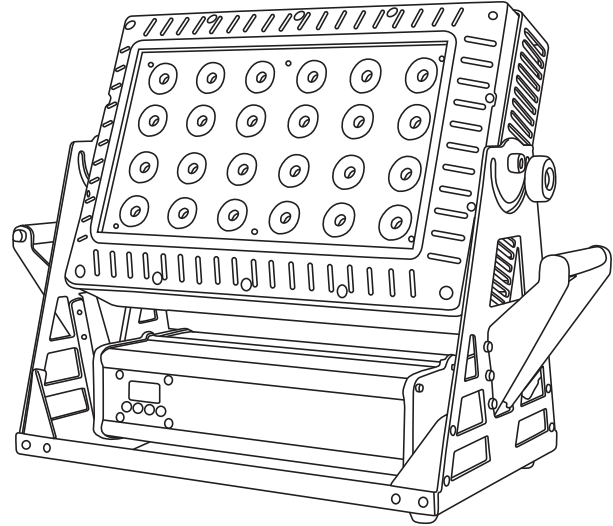
Do not endanger your own safety and the safety of others!

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

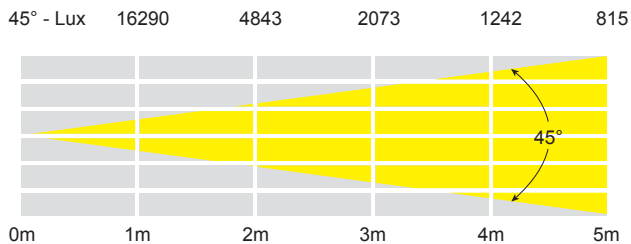
Spectra Flood 24T9

The Spectra Flood 24T9 is a high output, tri-colour architectural fixture suitable for events, rental or installation. Housing 24 x 9W RGB tri-colour LEDs the Spectra Flood 24T9 is suitable for lighting large buildings, structures and gardens. The immense colour palette can transform environments using the fixture's incredible long throw capability.

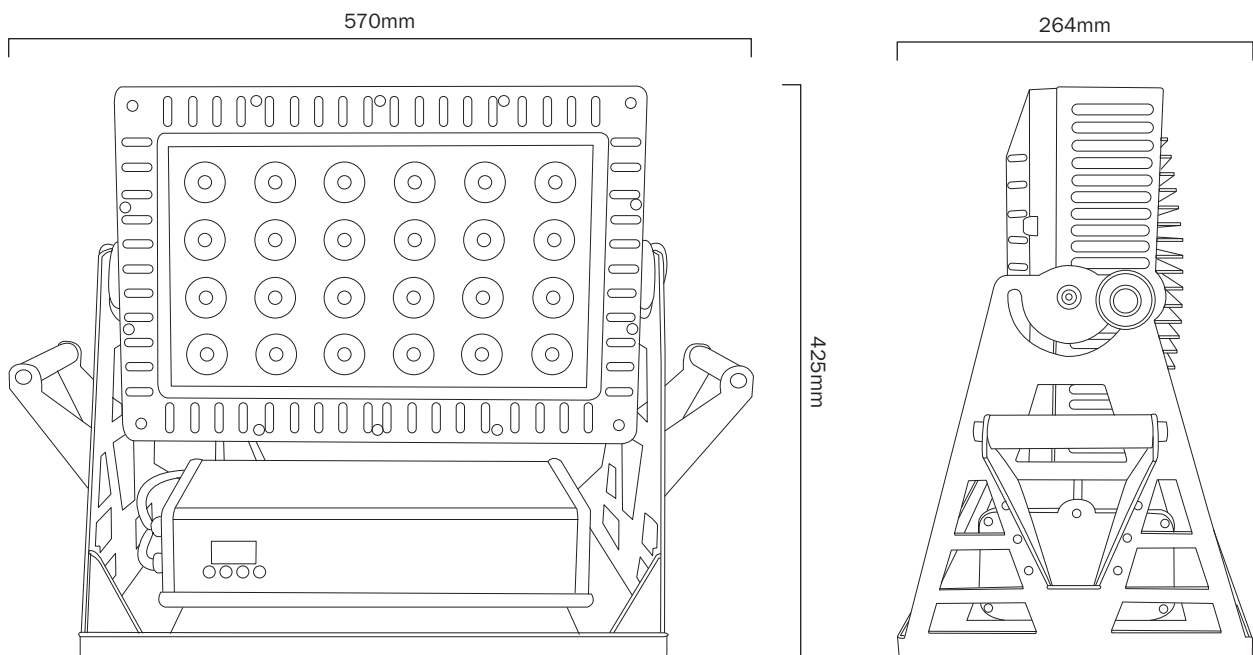
- 24 x 9W tri-colour LEDs (RGB)
- Beam angle: 45°
- 4.2kHz refresh rate
- IP66 rated
- DMX channels: 1/3/4 or 6 selectable
- Static colour, colour change, colour fade, auto run, sound active and master/slave modes
- 0 - 100% dimming with variable strobe
- Bracket allows for floor standing applications
- 4 push button menu with LED display
- IP rated power in/out
- IP rated DMX in/out
- Convection cooled
- Adjustable tilt angle
- Large carry handles

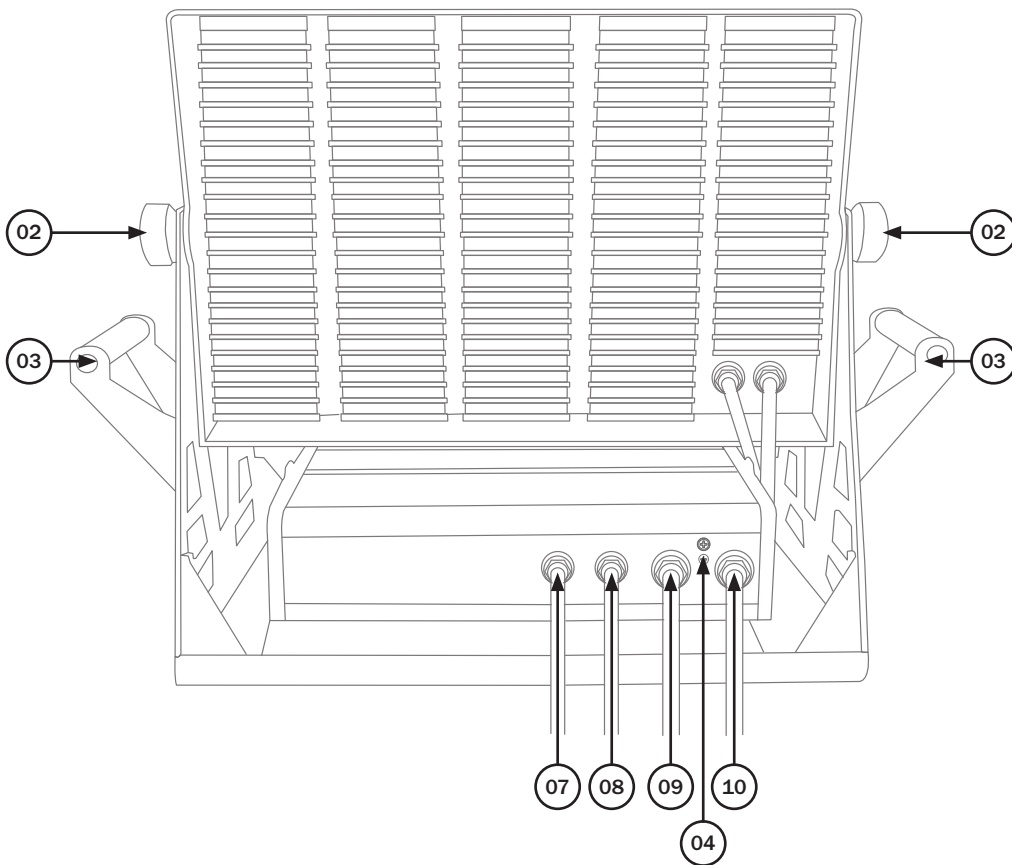
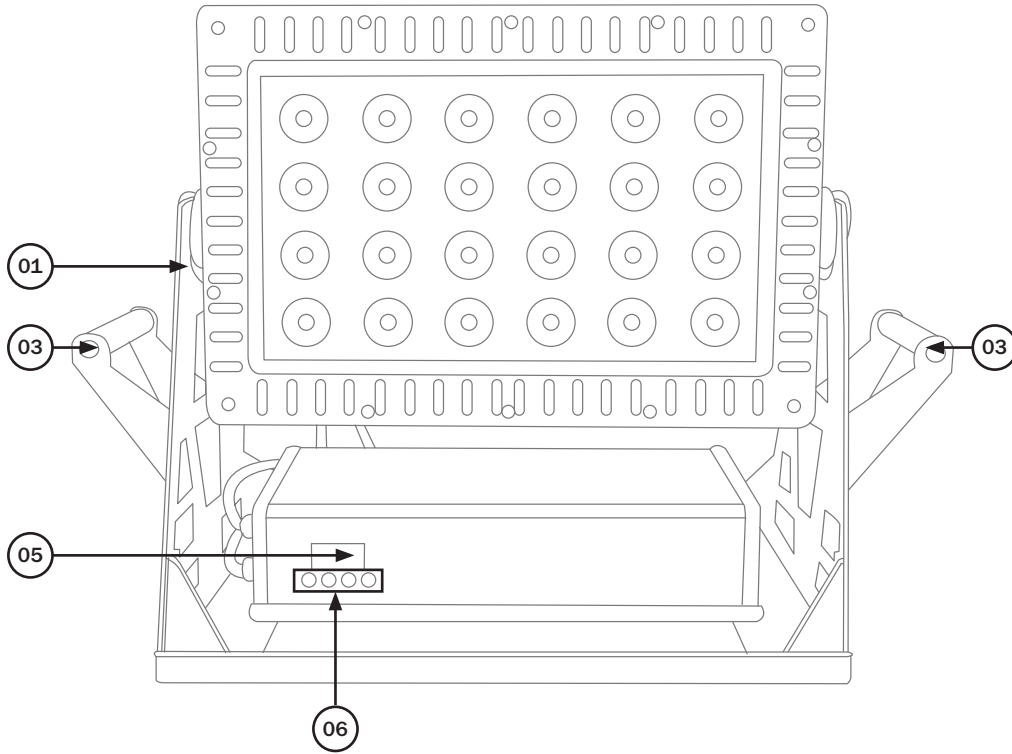


NOTE: The fixture may be installed by removing the rubber feet and securing using four or more fixing holes in the base.



Specifications	Spectra Flood 24T9
Power consumption	230W
Power supply	100~240V, 50/60Hz
Dimensions	425 x 570 x 264mm
Weight	15.7kg
Order code	LEDJ280





01 - Bracket

02 - Bracket tightening knobs

03 - Carry handles

04 - Earth point

05 - LED display

06 - Function buttons

07 - DMX input socket

08 - DMX output socket

09 - Power in socket

10 - Power out socket

In the box: **1 x fixture,**
1 x power cable &
1 x user manual



DMX channel mode:

Operating in a DMX control mode environment gives the user the greatest flexibility when it comes to customising or creating a show. In this mode you will be able to control each individual trait of the fixture and each fixture independently.

To access the DMX channel mode, press the “**MODE**” button on the rear of the unit to show *000 1* on the LED display. Now use the “**UP**” and “**DOWN**” buttons to set the desired DMX address. Now press the “**ENTER**” button to choose one of the 1, 3, 4 or 6 DMX channel modes, press the “**ENTER**” button to confirm the setting.

To exit out of any of the above options, press the “**MODE**” button.

1 channel mode:

Channel	Value	Function
1	000	No function
	001-022	Red
	023-045	Green
	046-068	Blue
	069-091	Cyan
	092-114	Yellow
	115-137	Orange
	138-160	Pink
	161-183	Purple
	184-206	Dark blue
	207-229	Pale green
	230-252	White
	253-255	Warm white

3 channel mode:

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

4 channel mode:

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



6 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-255	Red (0-100%) when channel 6 is 000
	000-008	Red
	009-017	Orange
	018-026	Yellow
	027-035	Spring Yellow
	036-044	Light Yellow
	045-053	Lime
	054-062	Light Green
	063-071	Green
	072-080	Pastel Green
	081-089	Light Cyan
	090-098	Cyan
	099-107	Light Blue
	108-116	Medium Blue
	117-125	Blue
	126-134	Violet
	135-143	Purple
	144-152	Magenta
	153-161	Pink
	162-170	Light Pink
	171-179	Pastel Blue
	180-188	Pastel Green
	189-197	Pastel Yellow
	198-206	Pastel Purple
	207-215	Pastel Cyan
	216-224	Turquoise
	225-233	Pastel Pink
234-242	White	
243-251	Warm White	
252-255	Cool White	
	000-255	Program speed (slow-fast) when channel 6 is 026-255

Static colours can be used when channel 6 is 001-025



6 channel mode continued:

3	000-255	Green (0-100%)	
4	000-255	Blue (0-100%)	
5	000-009	No function	
	010-255	Strobe (slow-fast)	
6	000	No function	
	001-025	Program 1 - Static colour (see channel 2)	
	026-051	Program 2 - 7 colour fade	
	052-077	Program 3 - 3 colour fade	
	078-103	Program 4 - 7 colour change	
	104-129	Program 5 - 3 colour change	
	130-155	Program 6 - Dynamic colour fade 1	
	156-181	Program 7 - Dynamic colour fade 2	
	182-207	Program 8 - Red continous fade	
	208-233	Program 9 - Green continous fade	
234-255	Program 10 - Blue continous fade		

Built-in program mode:

To access the built-in program mode press “**MODE**” until the display shows *Pr.01* on the LED display. Press “**ENTER**” to confirm the setting. Use the “**UP**” and “**DOWN**” buttons to select a program from *Pr.01 ~ Pr.10*. Press the “**ENTER**” button to confirm the setting.

To change the speed of the selected program press the “**ENTER**” button and then use the “**UP**” and “**DOWN**” buttons to select any value from *SP00 ~ SP99*. Press the “**ENTER**” button to confirm the setting, then use the “**UP**” and “**DOWN**” buttons to select and value from *F500 ~ F599* for the strobe feature. Press the “**ENTER**” button to confirm the setting.

In *Pr.01* you are able to set a specific static colour. When in *Pr.01* press the “**ENTER**” button and then use the “**UP**” and “**DOWN**” buttons to go through the static colours. Press the “**ENTER**” button to confirm the setting, then use the “**UP**” and “**DOWN**” buttons to select and value from *F500 ~ F599* for the strobe feature. Press the “**ENTER**” button to confirm the setting.

To exit out of any of the above options, press the “**MODE**” button.

Programs:

Pr.01	Static colour
Pr.02	7 colour fade
Pr.03	3 colour fade
Pr.04	7 colour change
Pr.05	3 colour change

Pr.06	Dynamic colour fade 1
Pr.07	Dynamic colour fade 2
Pr.08	Red continous fade
Pr.09	Green continous fade
Pr.10	Blue continous fade

Static colours:

1--r - Red	5--b - Blue
2--g - Yellow	6--r - Pink
3--g - Green	7--b - White
4--b - Cyan	8--FF - Blackout

Master/slave mode:

To set the master unit, press the “**MODE**” button on the rear of the master unit then select your desired program (sound active, auto, static colour or one of the built-in programs). To set the other units in slave mode, press the “**MODE**” button on the rear of the unit to show *SLAU* on the LED display and press the “**ENTER**” button to confirm the setting. The units will now run in sequence with the master unit.

To exit out of any of the above options, press the “**MODE**” button.

Please ensure that all slave units are set to the same DMX channel mode as the master unit.

Auto mode:

To access the auto mode press “**ENTER**” until the display shows *Auto* on the LED display. The fixture will now run through its built in programs *Pr.02 ~ Pr.10*.

To exit out of any of the above options, press the “**MODE**” button. NOTE: The user can set up the speed and flash speed for *Pr.02 ~ Pr.10* under the built in programs mode. Changing this here will then take effect when running auto mode.

Menu system

Built-in program	<i>Pr.01</i> Static colour <i>Pr.02</i> 7 colour fade <i>Pr.03</i> 3 colour fade <i>Pr.04</i> 7 colour change <i>Pr.05</i> 3 colour change <i>Pr.06</i> Dynamic colour fade 1 <i>Pr.07</i> Dynamic colour fade 2 <i>Pr.08</i> Red continous fade <i>Pr.09</i> Green continous fade <i>Pr.10</i> Blue continous fade <i>SP00~SP99</i> (speed) <i>F500~F599</i> (flash)
Auto mode	<i>AUTO</i>
Slave mode	<i>SLAU</i>
DMX mode	1CH, 3CH, 4CH, 6CH
Address setting	<i>ADD 1~A5 12</i>

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.

Further DMX cables can be purchased from all good sound and lighting suppliers or Pro Light Concepts dealers. Please quote:

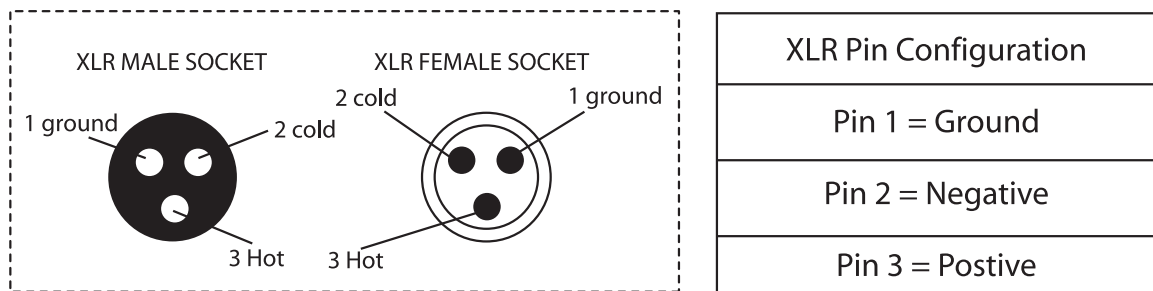
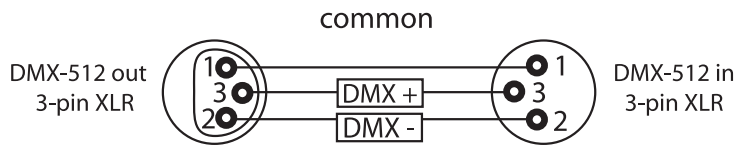
LEDJ 1m Interior - Exterior DMX cable	LEDJ 1m Exterior DMX cable	LEDJ 2m Exterior DMX cable	LEDJ 5m Exterior DMX cable	LEDJ 10m Exterior DMX cable
Order code: LEDJ91	Order code: LEDJ141	Order code: LEDJ142	Order code: LEDJ143	Order code: LEDJ144

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

LEDJ 1m Exterior Power cable	LEDJ 2m Exterior Power cable	LEDJ 5m Exterior Power cable	LEDJ 10m Exterior Power cable
Order code: LEDJ146	Order code: LEDJ147	Order code: LEDJ148	Order code: LEDJ149

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.



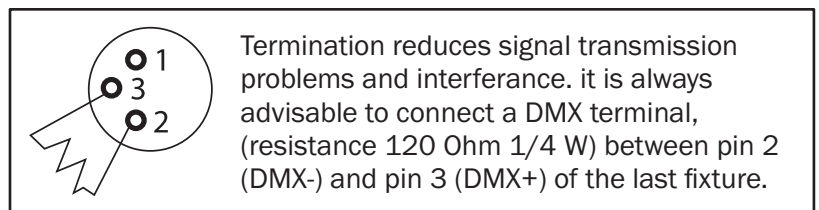
Special note:

Line termination:

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

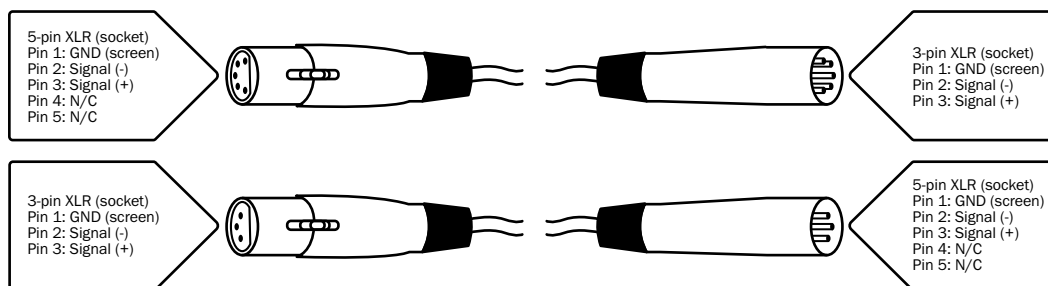
Using a cable terminator will decrease the possibilities of erratic behaviour.

(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.





***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.



