LEDJ

PF 35 Profile Spot
User Manual

Order codes:
LEDJ163 - CW Black Housing
LEDJ163A - CW White Housing
LEDJ164 - WW Black Housing
LEDJ164A - WW White Housing

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.

| ⚠ | **CAUTION!** KEEP THIS EQUIPMENT AWAY FROM RAIN, MOISTURE AND LIQUIDS | ⚡ | **CAUTION!** TAKE CARE USING THIS EQUIPMENT! HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!! |

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.
- Only use the equipment indoors.
- 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 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.
- 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.
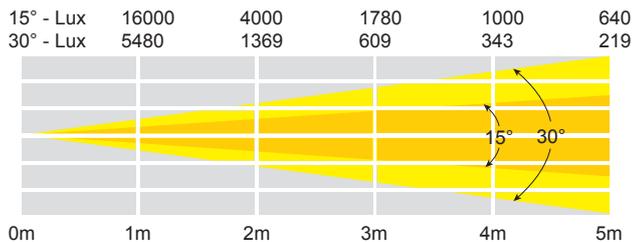
PF 35 Profile Spot

The PF 35 Profile spot is a mini profile powered by a high output 35W LED and uses a high quality optical system for sharp and precise projection. The beam angle can be manually focused and also adjusted via the 4 framing shutters. Custom gobos can be fitted into the unit via the easy access slot. A glass textured gobo and 4 metal effect gobos are also included. A removable frame allows users to easily insert coloured filters. 0-100% output and dimmer curves can be selected via the on-board 4 button LED menu or DMX.

- 1 x 35W cool white LED (7500K)/1 x 35W warm white LED (3200K)
- Adjustable beam angle: 15°- 30°
- 1kHz refresh rate
- Adjustable focus
- High quality optical system
- DMX channels: 1/2 or 3 selectable
- 0-100% dimming
- 4 dimming curves in both LED and halogen profiles: Linear, square law, inverse square law and S-curve
- 4 framing shutters
- Removable colour frame for filters
- Easy access gobo slot
- Includes a textured glass and 4 metal gobos
- Bracket allows for multiple rigging or floor standing applications
- PowerCON input/output
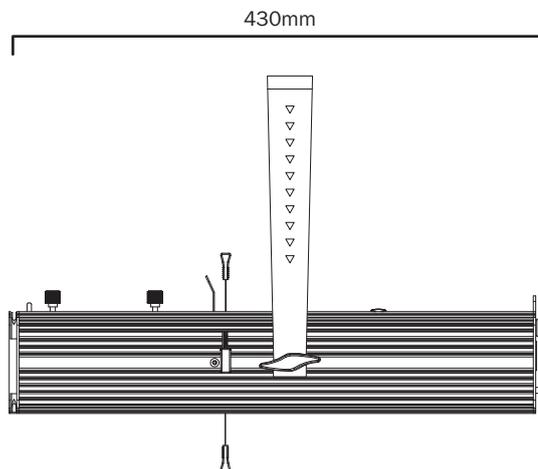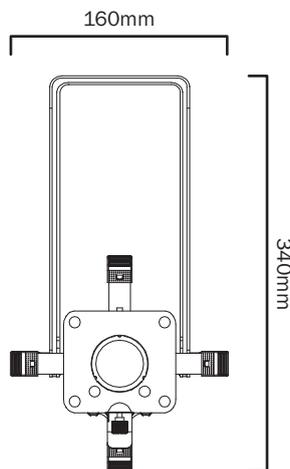- 3-Pin XLR input/output
- Fan cooled
- Supplied with IR remote

Specifications	PF 35 Profile Spot
Power consumption	43W
Power supply	100~240V, 50/60Hz
Fuse	T2A 250V
Dimensions	340 x 160 x 430mm
Weight	3.2kg
Order code	LEDJ163 - CW Version, Black Housing LEDJ163A - CW Version, White Housing LEDJ164 - WW Version, Black Housing LEDJ164A - WW Version, White Housing

CW version

| 15° - Lux | 16000 | 4000 | 1780 | 1000 | 640 |
| 30° - Lux | 5480 | 1369 | 609 | 343 | 219 |

0m   1m   2m   3m   4m   5m

WW version

| 15° - Lux | 14100 | 3519 | 1560 | 880 | 563 |
| 30° - Lux | 3480 | 869 | 386 | 217 | 139 |

0m   1m   2m   3m   4m   5m

160mm

430mm

340mm

LEDj

PF 35 Profile Spot
www.prolight.co.uk
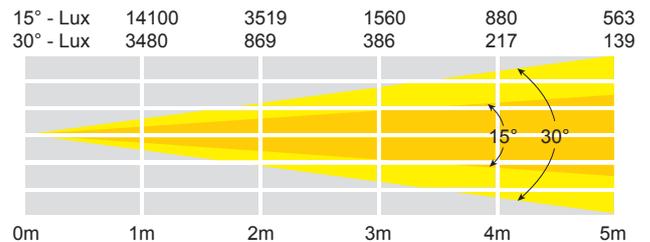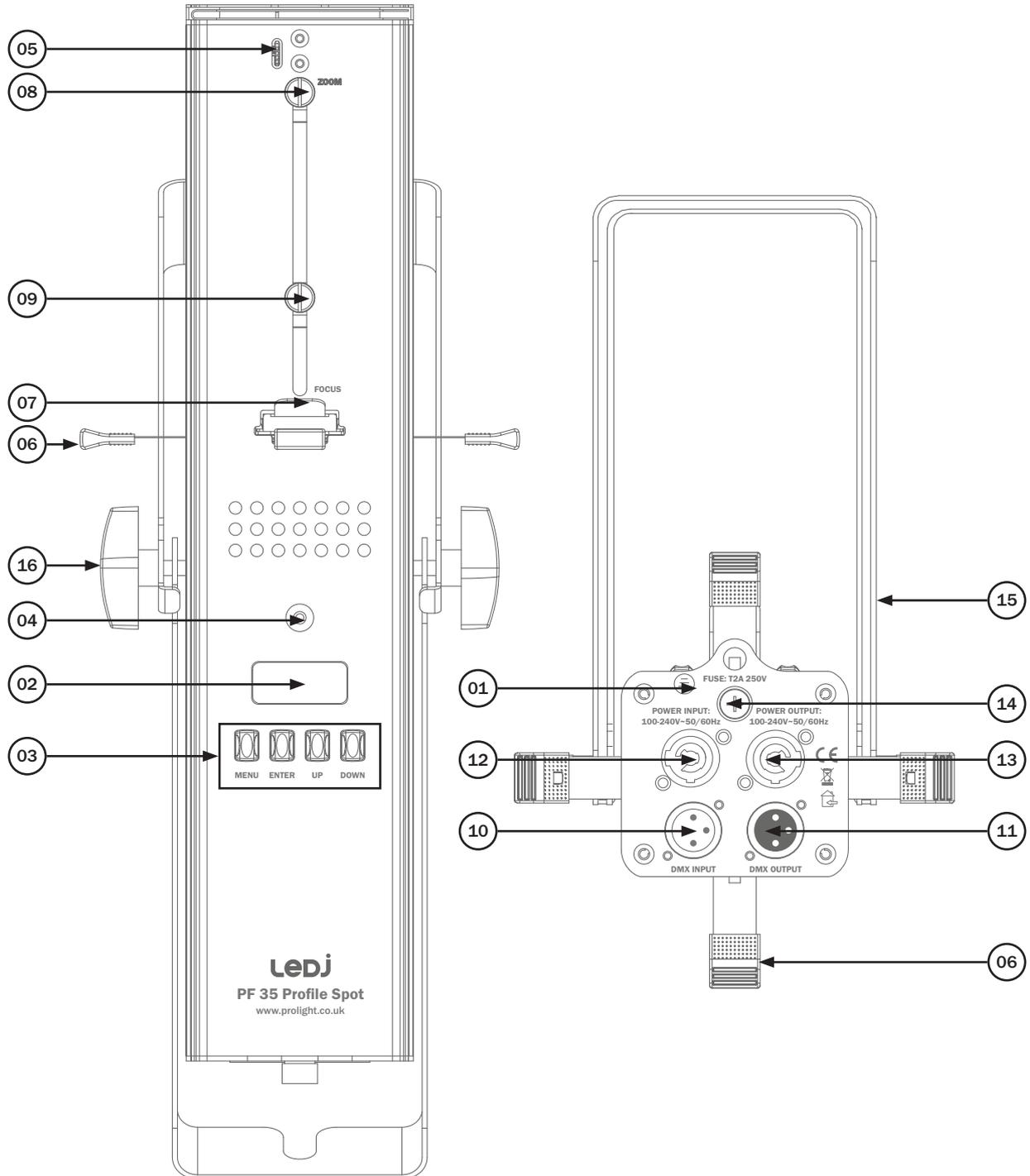
01 - Earth point
02 - LCD display
03 - Function buttons
04 - IR remote sensor
05 - Colour frame release mechanism
06 - Framing shutters
07 - Gobo slot
08 - Zoom adjustment

09 - Focus adjustment
10 - 3-Pin DMX input
11 - 3-Pin DMX output
12 - PowerCON input
13 - PowerCON output
14 - Fuse: T2A 250V
15 - Hanging bracket
16 - Hanging bracket adjustable knob

In the box: **1** x fixture,
4 x metal gobos,
1 x textured glass,
1 x IR remote,
1 x power cable
& 1 x user manual

LeDj

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                                                          ┌──────────────┐
                                                          │  DMX MODE    │
                                                          │  CHAN: 01    │
                                        ┌──────────────┐  ├──────────────┤  ┌──────────────┐   DMX
                    ┌──────────────┐    │  DMX MODE    │  │      —       │  │  DMX MODE    │   address
                    │  DMX MODE    │    │  ADDR:001    │  │  DMX MODE    │  │  DELAY:01    │   setting
  ┌──────────────┐  │  ADDR:001    │────┤      —       ├──┤  CHAN: 02    ├──┤      —       │
  │  DMX MODE    │──┤              │    │  DMX MODE    │  ├──────────────┤  │  DMX MODE    │
  │  ADDR:001    │  └──────────────┘    │  ADDR:512    │  │      —       │  │  DELAY:04    │
  └──────────────┘                      └──────────────┘  │  DMX MODE    │  └──────────────┘
                                                          │  CHAN: 03    │
                                                          └──────────────┘
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DMX MODE ADDR:001	DMX MODE ADDR:001 — DMX MODE ADDR:512	DMX MODE CHAN: 01 — DMX MODE CHAN: 02 — DMX MODE CHAN: 03

DMX MODE DELAY:01 — DMX MODE DELAY:04   **DMX address setting**

SLAVE MODE   **Slave mode**

MANUAL WHIE:255 → MANUAL WHIE:000 — MANUAL WHIE:255 → MANUAL STROB:00 — MANUAL STROB:15   **Manual dimming mode**

MENU

FADE RUN SPEED:09 → FADE RUN SPEED:01 — FADE RUN SPEED:16   **Fade in/out mode**

OPTION: BLGT: ON →
- OPTION BLGT: ON — OPTION BLGT:OFF   **Backlight setting**
- OPTION IR : ON — OPTION IR : OFF   **IR setting**
- OPTION SYSRESET   **Reset factory settings**

DMX 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 address mode, press the "**MENU**" button on the top of the unit to show "**DMX MODE ADDR**" on the LCD display. Now use the "**UP**" and "**DOWN**" buttons to set the required DMX address. Press the "**ENTER**" button to show "**DMX MODE CHAN**" on the LCD display and use the "**UP**" and "**DOWN**" buttons to select the required the DMX channel (1/2 or 3 selectable). Press the "**ENTER**" button to confirm the setting. The dimming curve settings will now be displayed, use the "**UP**" and "**DOWN**" buttons on the rear of the unit to select between "**DMX MODE DELAY:01**" ~ "**DMX MODE DELAY:04**". Press the "**ENTER**" button to confirm the setting.

To exit out of any of the above options, press the "**MENU**" button.

DELAY:01 - Linear   DELAY:02 - Square Law   DELAY:03 - Inverse Square Law   DELAY:04 - S-Curve

1 channel mode:

Channel	Value	Function
1	000-255	Dimmer (0-100%)

2 channel mode:

Channel	Value	Function
1	000-255	Dimmer (0-100%)
2	000-015	No function
	016-255	Strobe (slow-fast)

3 channel mode:

Channel	Value	Function
1	000-255	Dimmer (0-100%)
2	000-031	LED off
	032-063	LED on
	064-095	Strobe (slow-fast)
	096-127	LED on
	128-159	Strobe pulse (slow-fast)
	160-191	LED on
	192-223	Strobe random (slow-fast)
	224-255	LED on
3	000-020	Linear (dimming curve)
	021-040	Square Law (dimming curve)
	041-060	Inverse Square Law (dimming curve)
	061-080	S-Curve (dimming curve)
	081-255	Default dimming curve (set via menu)

Master/slave mode:

To set the master unit, press the "**MENU**" button on the top of the master unit to select either the manual mode of the fade in/out mode.

To set the other units in slave mode, press the "**MENU**" button on the top of the unit to show "**SLAVE MODE**" on the LCD display. Press the "**ENTER**" button to confirm the setting.

To exit out of any of the above options, press the "**MENU**" button.

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

Manual dimming mode:

To access the manual dimming mode press the "**MENU**" button until the display shows "**MANUAL WHIE**" on the LCD display. Use the "**UP**" and "**DOWN**" buttons to select the required brightness from "**000**" ~ "**255**". Press the "**ENTER**" button and then use the "**UP**" and "**DOWN**" buttons to select the flash speed from from "**00**" ~ "**15**". Press the "**ENTER**" button to confirm the setting.

Value: 000 - 255 (000 = low brightness, 255 = high brightness)
Value: 00 - 15 (00 = no flash, 15 = fast flash speed)

To exit out of any of the above options, press the "**MENU**" button.

Fade in/out mode:

To access the fade in/out mode, press "**MENU**" until the display shows "**FADE RUN**" on the LCD display. Use the "**UP**" and "**DOWN**" buttons to select the required fade speed from "**01**" ~ "**16**". Press the "**ENTER**" button to confirm the setting.

Value: 01 - 16 (01 = slow speed, 16 = fast speed)

To exit out of any of the above options, press the "**MENU**" button.

Backlight setting:

To access the units backlight setting, press "**MENU**" until the display shows "**OPTION BLGT**" on the LCD display. Use the "**UP**" and "**DOWN**" buttons to select the between "**ON**" (backlight on) and "**OFF**" (backlight goes off after 20 seconds). Press the "**ENTER**" button to confirm the setting.

To exit out of any of the above options, press the "**MENU**" button.

IR setting:

To access the units IR setting, press "**MENU**" until the display shows "**OPTION BLGT**" on the LCD display. Press the "**ENTER**" button to show "**OPTION IR**" on the LCD display and use the "**UP**" and "**DOWN**" buttons to select the between "**ON**" (IR receiver on) and "**OFF**" (IR receiver off). Press the "**ENTER**" button to confirm the setting.

To exit out of any of the above options, press the "**MENU**" button.

Reset factory settings:

To reset the unit back to its factory settings, press "**MENU**" until the display shows "**OPTION BLGT**" on the LCD display. Press the "**ENTER**" button twice to show "**SYSRESET**" on the LCD display. Press both the "**UP**" and "**DOWN**" buttons together and the unit will reset to factory settings. Press the "**ENTER**" button to confirm the setting.

To exit out of any of the above options, press the "**MENU**" button.

IR remote functions:

01 - Sets the unit into blackout off/on (LED on/off).

02 - Runs the fade in/out mode, use the '+' and '−' buttons to adjust the program speed.

03 - Runs the manual dimming mode. Press this button followed by the '+' and '−' buttons to adjust brightness (000-255). Press the Flash button followed by the '+' and '−' buttons to adjust the flash speed.

04 - Sets the flash speed in manual dimming mode. Press this button followed by the '+' and '−' buttons to adjust the flash speed.

05 - Sets the unit in slave mode.

06 - Sets the DMX address. Press this button followed by the '+' and '−'/number buttons to adjust the DMX address.

07 - Sets the DMX address, channel and dimming curve. When in DMX address mode press this button followed by the '+' and '−'/number buttons to adjust the DMX address. When in DMX channel mode press this button followed by the '+' and '−' buttons to select the required DMX channel mode. When in dimming curve mode press this button followed by the '+' and '−' buttons to select the dimming curve required (see page 6 for dimming curves).

08 - Adjusts the fade in/out speed, flash speed, manual dimming brightness, DMX address, DMX channel and dimmer curves.

09 - Number buttons to be used when setting the DMX address.
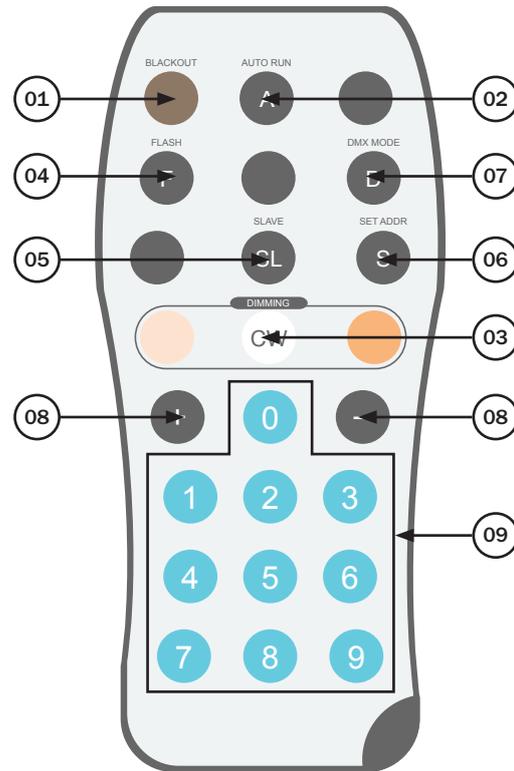
Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a "start address" from 1- 511. 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 form 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 and your DMX controller require a standard 3-pin XLR connector for data input/output, see image below.

Further DMX cables can be purchased from all good sound and lighting suppliers or Pro Light Concepts dealers.
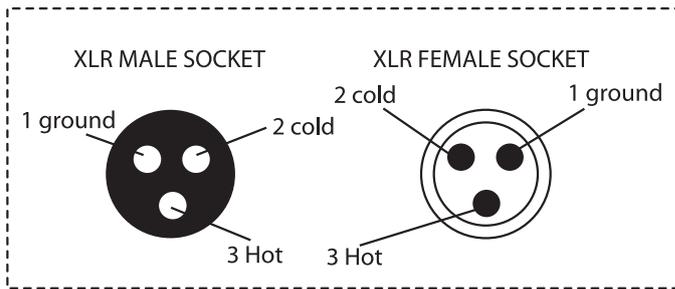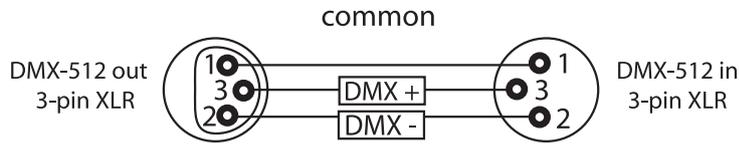Please quote:
> CABL10 – 2m
> CABL11 – 5m
> CABL12 – 10m

Note: 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.

common

DMX-512 out
3-pin XLR

DMX +
DMX -

DMX-512 in
3-pin XLR

XLR MALE SOCKET

1 ground

2 cold

3 Hot

XLR FEMALE SOCKET

2 cold

1 ground

3 Hot

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

Special note:

Line termination:

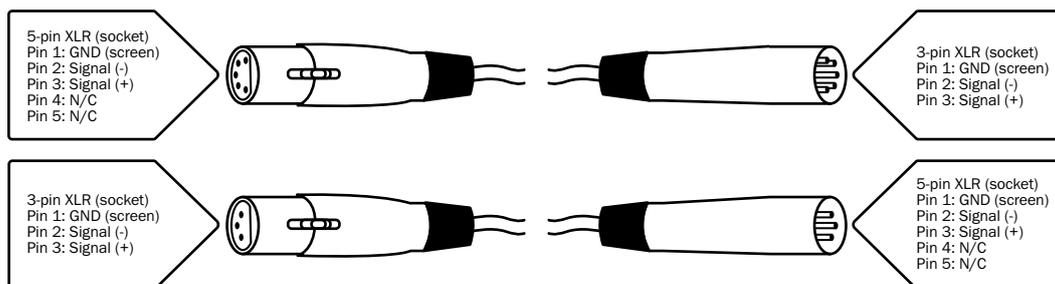When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

Using a cable terminator will decrease the possibilities of erratic behaviour.
(3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)

Termination reduces signal transmission problems and interference. It is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

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.

5-pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

3-pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

3-pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

5-pin XLR (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

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 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.

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