MaxiLED Lighting

MaxiSEAL

MaxiSEAL

MaxiLINK ENABLED

Data over Power distribution to the fixtures

DATA Over POWER

2 Core
Data over Power

DMX RGBW Controllable

MaxiLED Marker Effect Series
DMX RGBW

c UL us LISTED | UKCA | CE | IP68 | IK10

MaxiLED Marker Effect Series
DMX RGBW Datasheet

KEY FEATURES

- IP68 (Depth 1 Meter temporary)
- IK10 (Optional)
- 48VAC Data over Power 2 wire system
- 512 DMX RGBW Controllable
- 150/250mm Recessed sleeve available
- 15º/25º/40º/170º (no optic)
- MaxiSEAL (Optional)

Product Overview

The MaxiLED Marker Effects Series provides durable in-grade fixtures for step and pathway illumination. Connect up to 100 fixtures on a single run and control lighting effects with DMX-512. Matte glass reduces glare and delivers smooth colorful lighting across the circular surface of the fixture using dependable CREE LEDs.
Manufactured from quality materials with a MaxiSEAL finish (Optional) and incorporating our Patented 2 wire data over power technology, providing full DMX 512 control down the 2 power wires makes it the simplest to install and most cost effective product of its type in the market place today. MaxiMarker Effect comes standard with a Pedestrian traffic impact rating but has an optional Drive-Over rating of 5000kg IK10 glass lens and an IP68 factory-sealed optical chamber.

Specifications	MaxiLED Marker Effect
Dimming	
DMX512 Dimmable (Data Over power):	**YES**
LED Options	
(Cree XQE Led's) RGBW:	**YES**
(Cree XQE Led's) RGBWW:	**YES**
Intelligent white 2700k-6000K:	**YES**
Electrical specification	
Power input:	**48VAC Data Over Power MaxiLINK system**
LED Current:	**100ma**
Watts per unit:	**2.4w**
Lumens RGBW Matt Glass (Full On):	**25 lumens**
Lumen Maintenance 85%:	**90,000Hrs**
System Cable Distances	
Max. Units per system on 1.5mm sq cable:	**100 units**
Max distance from 1st to last unit on 1.5mm sq cable:	**100m (328 ft)**
LeaderCable	
Max. 1.5mm sq cable from MaxiLINK to 1st fitting:	**15m (49.2ft)**
Max. 2.5mm sq cable from MaxiLINK to 1st fitting:	**75m (246ft)**
Protection	
IP68 (Depth 1 Meter temporary)	**YES**
Impact Protection (Standard):	**Pedestrian traffic**
Drive over 5000Kg (Optional):	**IK10**
Operation Temperature:	**-25 to +50**
Thermal Protection cut out at 70ºC:	**YES**
Finishes	
MaxiSEAL Black:	**YES**
MaxiSEAL Silver:	**YES**
Black / Silver Anodised:	**YES**
Durable Stainless steel:	**YES**
RAL Powder Coat:	**YES**
Dimensions	
Diameter with Flange (mm):	**88 mm (3.46 ins)**
Depth (mm):	**85 mm (3.34 ins)**
Dimensions Sleeve	
Diameter (mm):	**80 mm (3.15 ins)**
Height (mm):	**150/250mm (6inch/9.85inch)**
Listings:	**UL LISTED, CE, UKCA**

UK Designed and Manufactured

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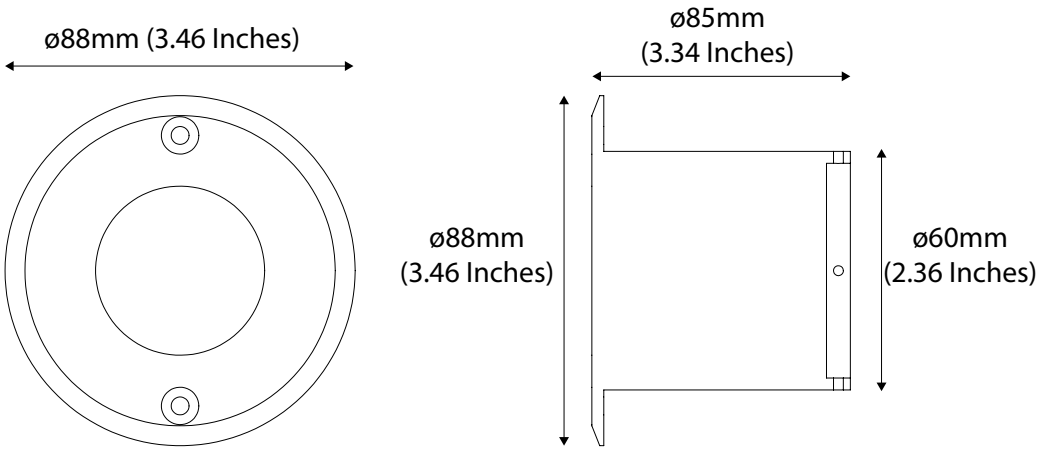
MaxiLED Marker Effect Series
Fixture Dimensions

FIXTURE IN INSTALLATION SLEEVE

MM (INCHES)



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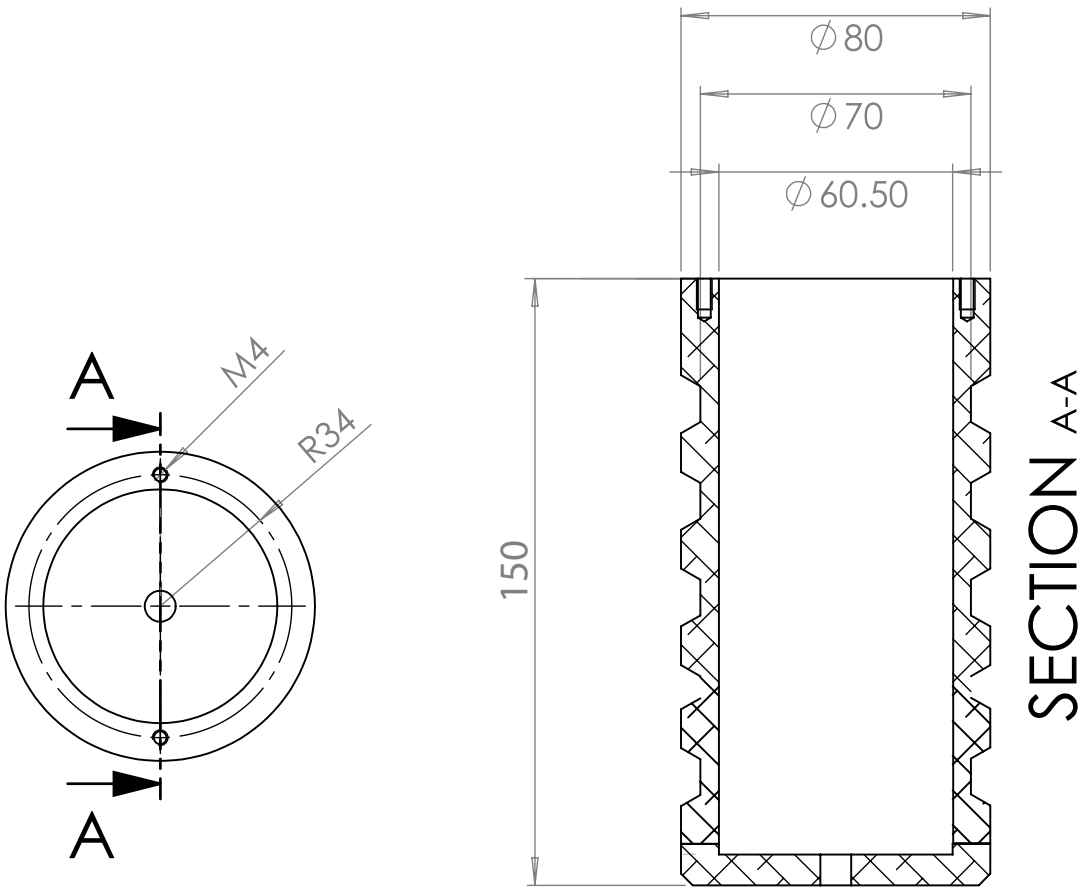
MaxiLED Marker Effect Series

150mm Sleeve Dimensions

Measurements in MM



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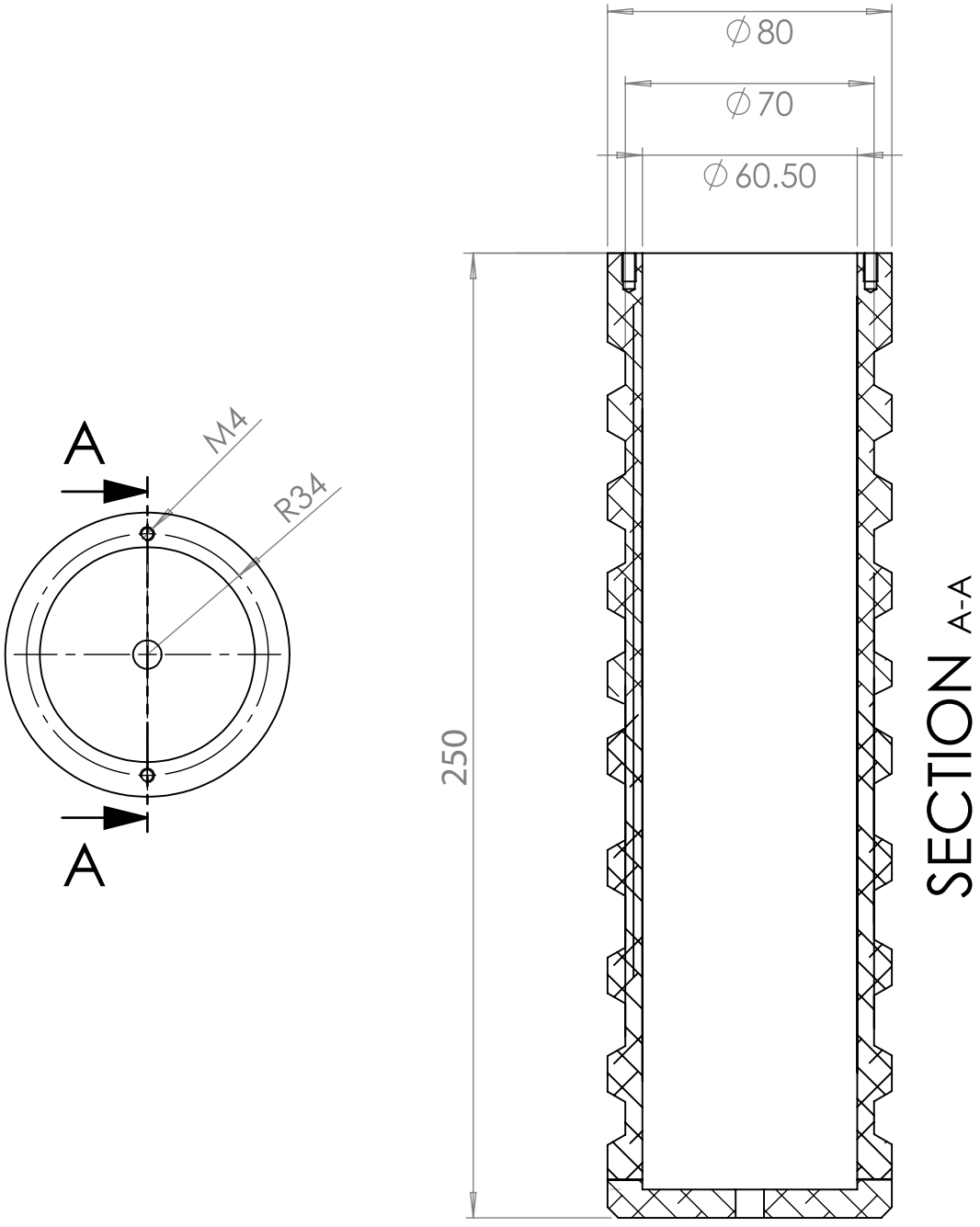
MaxiLED Marker Effect Series

250mm Sleeve Dimensions

Measurements in MM



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MaxiLED Marker Effect Series
Accessories

Installation Sleeve

Specification

Dimensions & Weights

Sleeve Diameter :	**80 mm**
Sleeve Depth :	**150mm / 250mm**
Weight KG :	**375g / 590g**

Material

One-piece black PVC sleeve supports fixture in inground applictions.

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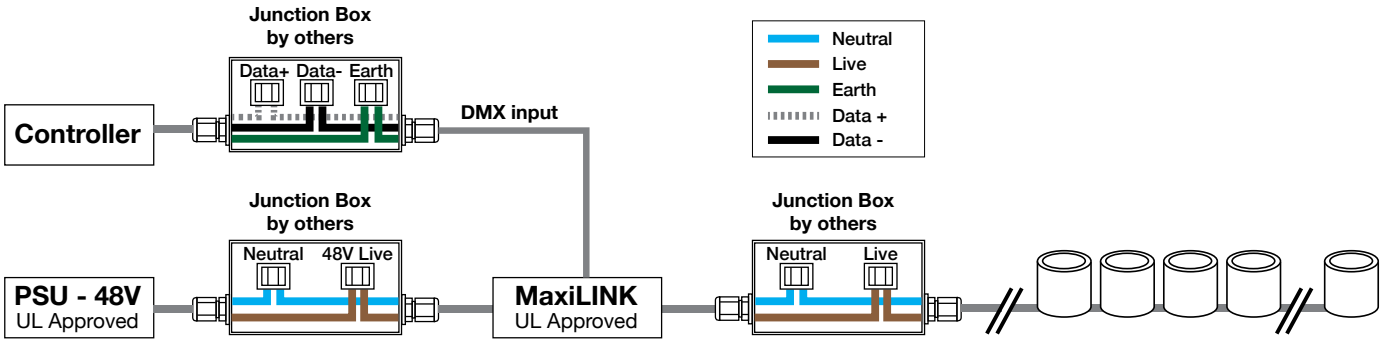
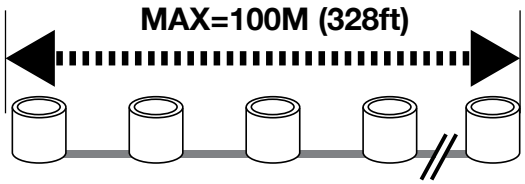
Revision 2

MaxiLED Marker Effect Series
Wiring Illustration

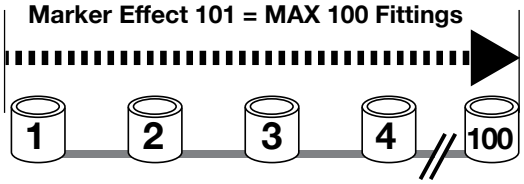
This product must be installed by a qualified electrician in accordance with all national and local electrical and construction codes.
Failure to comply with the installation instructions can result in serious injury or death.



Marker Effect
Maximum run distance



102 Maximum Run length



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Wiring Illustration

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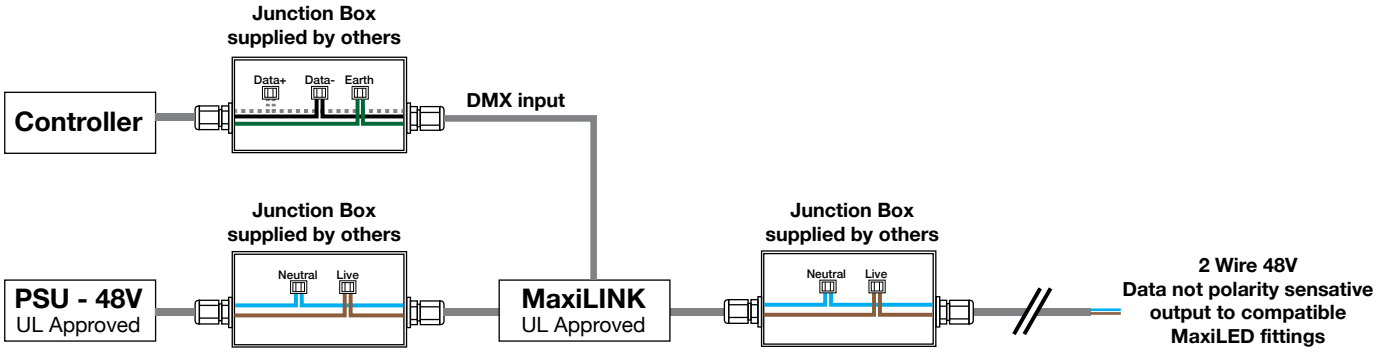
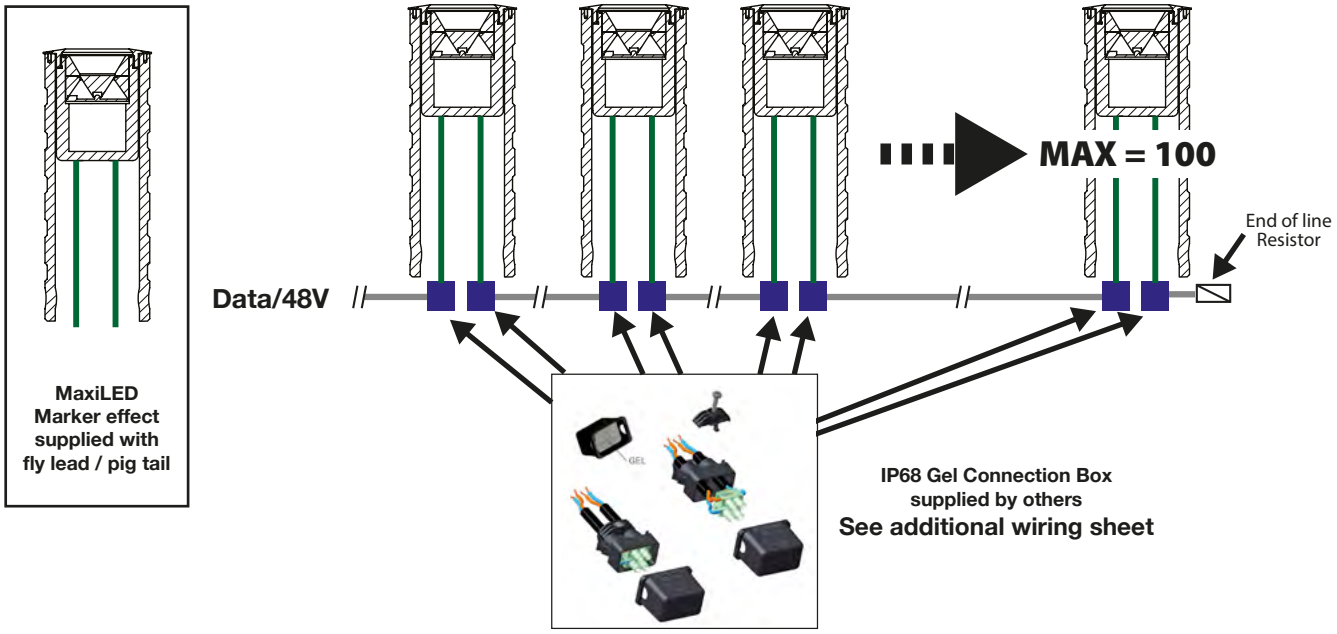
1 Basic Wiring layout to MaxiLED fittings



Wiring IP68 Gel connectors. Maximum 100 fittings per power supply



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Revision 2

MaxiLED Marker Effect Installation Guide

WARNING: ONLY 48V / DATA MAXILINK ONLY

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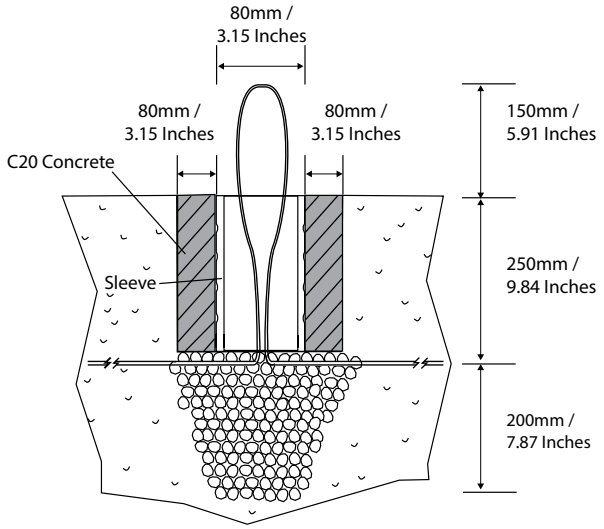
1 Preparing Ground Work



(a). Prepare ground work.
Trench minimum 400mm / 16 Inches deep.

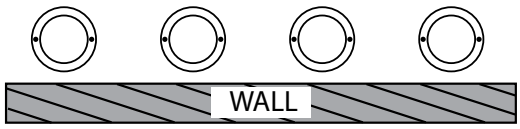
(b). Fill lower half with pea gravel for drainage.

(c). Place In ground sleeve flush with ground.

(d). Add C20 Concrete.

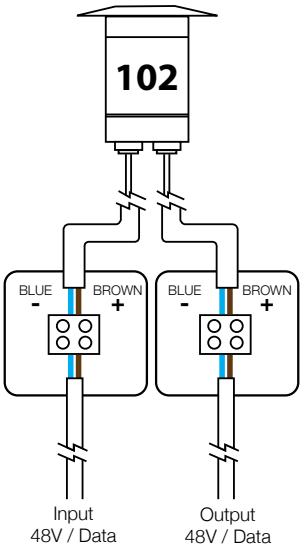
Always prepare 30cm of drainage gravel. Fill the installation sleeve with water and check that it completely drains within 30mins.
If not find a further drainage solution.

2 Sleeve Orientation



NOTE:
(a). Make sure sleeve holes are all aligned so that the fittings will be uniform after final installation.
(Illustration for MaxiDEPTH and Marker Effect)

3 Make connections using IP68 gel connectors



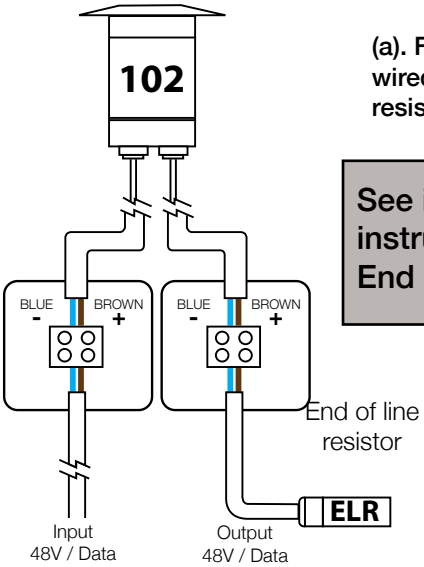
(a). Using a minimum IP68 submersible joint inline with local authority regulations

(b). Make connection.
(As illustrated)

(c). Cable type must be 1.5mm sq with a overall diameter of 6-8mm

See installation instruction sheet for Gel connectors

4 Final fitting



(a). Final fitting must be wired to the End of line resistor (ELR)

See installation instruction sheet for End of line resistors

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Revision 1

MaxiLED Marker Effect
Wiring using IP68 Gel connector

WARNING: ONLY 48V / DATA MAXILINK ONLY

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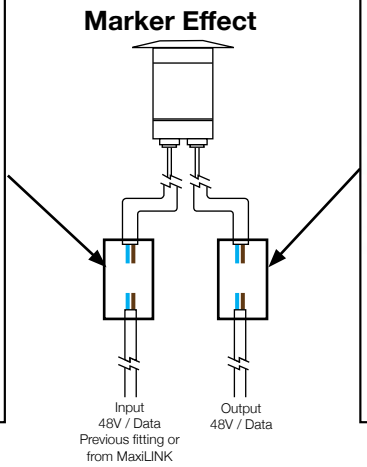
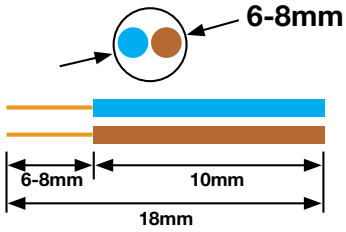
1 Wiring

NOTE: Cable pust be1.5mm sq with an overall diameter of 6-8mm

Input Connection



Output Connection



(a). Cable must be 1.5mm sq with an overall diameter of 6-8mm

(b). Cut cable to sizes above

(c). Connect wiring to terminal block

2 Apply Gel cover

(a). Each packet is supplied with a Gel filled cover.

(b). Check all wires are tight and in correct locations in the terminal block

(c). Push the terminal block into the housing.

(d). Confirm the outter sheath of cable is within the housing. Secure the Cable using the clamp with the screw provided.

(e). Push the gel filled cover over the housing. Confirm the cover has clicked in place on both sides of the housing.

(f). Repeat the process for the output connection.

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MaxiLED Marker Effect Series

DMX RGBW Adjusting end of line resistor

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1 Connect the End of Line Resistor

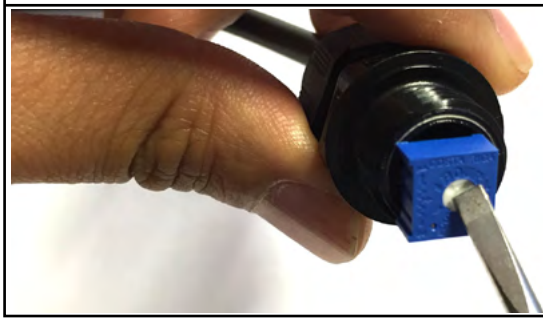
(a). Connect the End of Line Resistor Cable (Supplied Separately.) to the end of the 48V Data line after the last fitting.

NOTE: On the final lamp fitting an End of Line Connector MUST be Connected to allow the DMX data to 'Communicate.'
Without the End of Line Resistor the lamps will show DATA DISRUPTION
Connection is NOT Polarity Sensative.

2 Data Disruption

(a). Once the system is powered up and the DMX 512 data transmission is available the end of line units will need setting.
Only perform this operation if the installation is flickering and not responding to the 512 DMX data transmission correctly.
Remove the Black Cap.

3 Fine Tuning 512 DMX data



(a). Using a Flat screw driver, turn the adjuster fully clockwise.
The lights will begin to randomly flicker.

(b). Turn the adjuster anticlockwise until the installation responds correctly, once it responds correctly continue to turn the adjuster until the installation starts to flicker again when it does stop, turn the adjuster clockwise slightly.

(c). The adjuster is now set.

4 Check list

(a). Once the lights are tuned and correct, replace the End of Line Resistor Black cap. Ensure a tight fit for a waterproof seal.

(SEE INSTALLATION INSTRUCTIONS FOR POWER SUPPLY OPTIONS.)

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MaxiLED Marker Effect Series
DMX RGBW - Order codes

Product		LED	Housing		Finish		IK Rating		Other	
Marker Effect	**ME**	**RGBW(6000K)**	150mm Recessed sleeve	**RS150**	Aluminium Anodized Black	**BA**	Pedestrian Traffic	**PT**	End of line resistor	**ELR**
		RGBWW(3000K)	250mm Recessed sleeve	**RS250**	Aluminium Anodized Silver	**SA**	Drive over IK10	**IK10**		
		IW			MaxiSEAL Black	**BMS**				
		2700			MaxiSEAL Silver	**SMS**				
		3000			Stainless steel	**SS**				
		3500			RAL(Colour)	**RAL**				
		4000			Special	**SP**				
		5000								
EXAMPLE:	**ME**	**RGBWW(3000K)**		**RS150**		**BMS**		**PT**		**ELR**

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